Statement of Nondiscrimination
The College of Staten Island is an Equal Opportunity and Affirmative Action institution. The College does not discriminate on the basis of race, color, national or ethnic origin, religion, age, sex, sexual orientation, transgender, disability, genetic predisposition or carrier status, alienage or citizenship, veteran or marital status in its student admissions, employment, access to programs, and administration of educational policies.

Danielle E. Dimitrov, Esq., Director of the Office of Diversity and Compliance, serves as the College’s Compliance Officer, Title IX Coordinator, and 504 Coordinator. Her office is located in Building (1A), Room 103, and her telephone number is 718.982.2250.

Important Notice of Possible Changes
The City University of New York reserves the right, because of changing conditions, to make modifications of any nature in the academic programs and requirements of The University and its constituent colleges without advance notice. Tuition and fees set forth in this publication are similarly subject to change by the Board of Trustees of The City University of New York. The University regrets any inconvenience this may cause. The responsibility for compliance with the regulations in each catalog rests entirely with the student.

Published by the College of Staten Island/The City University of New York
2800 Victory Blvd, Staten Island, NY 10314
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2800 Victory Blvd
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718.982.2000
www.csi.cuny.edu
Office of the Registrar

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Published by the College of Staten Island/The City University of New York
2800 Victory Blvd, Staten Island, NY 10314
Message From the President

Greetings! It is my pleasure to welcome you to the College of Staten Island, a senior college of The City University of New York, the nation's leading urban university.

CSI is committed to providing you a richly integrated learning experience, with a variety of learning opportunities, both in and outside of the classroom, at home, and around the world.

As the only public institution of higher learning in the borough, CSI is committed to providing you with a variety of learning opportunities both in and outside of the classroom, which, in combination with your own hard work, we are sure will help you continue toward your educational, philosophical, and professional goals. Here on our beautiful 204-acre campus, you will join other students who are pursuing doctoral degrees, advanced certificate programs, and master's degrees, as well as bachelor's and associate's degrees.

We offer a broad spectrum of disciplines on campus, with courses taught by highly credentialed faculty from leading institutions around the world. A hallmark of a CSI education is the opportunity for undergraduate students to experience real-world, hands-on research using sophisticated equipment, side by side with leading scientists and authorities in their fields.

CSI also offers a comprehensive array of international programs to further enhance your education. Whether you choose to take advantage of dynamic study abroad and exchange programs in over 35 countries, enroll in our Virtual Classroom that connects you with fellow classmates at leading institutions around the world via a high-speed video link, or enrich your education through internships with leading companies in New York City, your CSI experience will help you attain your educational, philosophical, and professional goals.

CSI's administration, faculty, and staff are singularly dedicated to your success, and as we affirm in the College's mission statement, "practice their commitment to educational excellence as they instill in students preparing to enter their chosen careers an enduring love of learning, a sensitivity to pluralism and diversity, a recognition of their responsibility to work for the common good, and an informed respect for the interdependence of all people."

This focus on mutual interdependence and civic responsibility is illustrated by the many international partnerships that the College maintains worldwide through our Center for International Service, as well as by the relationship that CSI enjoys with the larger Staten Island community; our Office of Continuing Education and Professional Development administers programs focused on developing career-related skills; and our Small Business Development Center assists local businesses.

CUNY has recognized the College's flagship research status by designating certain programs as Research Centers. CSI's Center for Developmental Neuroscience and Developmental Disabilities works closely with the New York State Institute for Basic Research (IBR) to conduct, promote, and sponsor research, education, and training in the developmental neurosciences with special emphasis on research and educational programs in the specific field of developmental disabilities; our Center for Environmental Science, established in 1987, provides support for research and policy recommendations concerning environmental problems and the quality of life; and our Center for Engineered Polymeric Materials actively fosters the development of complex polymeric materials based on multiple phases with significant structures at the nanometer scale.

Further, we offer programs to help our students succeed at every level: from our summer immersion program, which provides tuition-free instruction aimed toward helping students pass the CUNY skills assessment tests, to our FIRST program's specialized academic and personal support services for freshmen who have passed all three of these tests, CSI strives to ease our first-year students' transition into college. Other programs, such as the Macaulay Honors College at CSI and The Verrazano School at CSI are designed for gifted and highly motivated students, while the Teacher Education Honors Academy educates a new generation of exceptional teachers of science and mathematics.

These are only a few examples of what you will find at CSI. I encourage you to explore our Web site to learn more about the programs and the people of our College community. Congratulations on taking this first step into what I know will be a bright future, and welcome!

Sincerely,

William J. Fritz
President
CSI Administration
Please visit CSI Administration.

Academic Departments and Chairpersons
Please visit Academic Departments and Chairpersons
About the College

The College of Staten Island is a four-year, senior college of The City University of New York that offers exceptional opportunities to all of its students. Programs in the liberal arts and sciences and professional studies lead to bachelor’s and associate’s degrees. The master’s degree is awarded in 18 professional and liberal arts and sciences fields of study. The College will now assume degree-granting authority of the doctorate in Physical Therapy and this will become effective for students enrolled in the Class of 2017 (beginning Fall 2014). The College participates in doctoral programs of The City University Graduate School and University Center in Biology, Chemistry, Computer Science, Nursing, Physical Therapy, and Physics.

A broad general education is assured through requirements that allow students to explore a range of fields of knowledge and acquire educational breadth in mathematics, the sciences, social sciences, arts, and humanities. Requirements for the bachelor’s degree provide a disciplined and cumulative program of study in a major field of inquiry. Enrollment in baccalaureate programs requires freshman admission standards consonant with those of CUNY senior colleges. Enrollment in associate’s degree programs is open to all students with a high school diploma or the equivalent.

The College of Staten Island is one of seven campuses that participate in the Macaulay Honors College of CUNY. Students accepted into this highly competitive program complete their degree requirements, including honors in their chosen major, at the College of Staten Island. Special seminars, research opportunities, and co-curricular activities are challenging and enriching elements of the program. The Macaulay Honors College at CSI is designed for a limited number of students who have demonstrated a well-developed commitment to learning and who intend to continue their undergraduate education in graduate and/or professional schools. Students who have earned, or expect to earn, a high school academic diploma with an average of at least 90 with competitive SAT or ACT scores are eligible to apply for admission.

The academic year follows a two-semester pattern, with a separate summer and winter session. Classes are scheduled days, evenings, and weekends. The College has an extensive Continuing Education program and offers off-campus courses with and without credit.

CSI was founded in 1976 through the union of two existing colleges—Staten Island Community College and Richmond College. Staten Island Community College, the first community college in the University, opened in 1956. Richmond College, an upper-division college that offered undergraduate and graduate degrees to students who had successfully completed the first two years of college study elsewhere, was founded in 1967. The merger of these two colleges resulted in the only public four-year institution of higher learning on Staten Island.

The Campus

Completed in 1994, the 204-acre campus of CSI/CUNY is the largest site for a college in New York City. Set in a park-like landscape, the campus is centrally located on Staten Island. Mature trees and woodlands, flowering trees and ornamental plantings, fields and outdoor athletic facilities, the great lawn, sculpture, and seating areas create a rural oasis in an urban setting.

Fourteen renovated neo-Georgian buildings serve as classrooms, laboratories, and offices. The academic buildings house 300 classrooms, laboratories and instructional spaces, study lounges, department and program offices, and faculty offices.

North and South Academic Quadrangles are connected by the Alumni Walk, with the Library and Campus Center as focal points. The Center for the Arts is located midway between the Quadrangles at the fountain plaza. The Sports and Recreation Center and the athletic fields are located near the main entrance to the campus.

Sixteen works of art, a permanent collection of works either commissioned or purchased through the Art Acquisitions Program of the Dormitory Authority of the State of New York, are installed throughout the campus. The artists and their free-standing sculptures and reliefs are: Vincenzo Amato, Body of Hector/Glaucus; Miriam Bloom, Shoollilo; Fritz Bultman, Garden at Nightfall (extended loan); Chryssa, Untitled; Lucille Friedland, Big Stride (gift of the artist); Red Grooms, Marathon; Sarah Haviland, Staten Island Arch; Jon Isherwood, Borromini’s Task; Zero Higashida, Maquette for a Small Universe; Valerie Jaudon, Untitled; Niki Ketchman, Red Inside; Win Knowlton, Ellipse; Mark Mennin, Torak; Don Porcaro, Moon Marker; and Hans Van de Bovenkamp, Stele in the Wind.

Astrophysical Observatory: The 16-foot dome astrophysical observatory was completed in 1996. In addition to serving students in astronomy courses, the facility is used for faculty and student research projects, environment monitoring projects, and community programs.

Biological Sciences/Chemical Sciences Building: An ultramodern facility, the building contains classrooms, laboratories, faculty offices, research facilities for faculty and students, the Center for Environmental Science, and the Center for Developmental Neuroscience and Developmental Disabilities.

Campus Center: The Campus Center provides facilities for a complete student life including offices for student organizations, food services, health services, a study lounge, bookstore, and the studios of WSIA-FM, the student-operated radio station.

Center for the Arts: Entered from the Great Lawn and from the Alumni Walk, the Center houses two academic wings for programs in the arts as well as superb public spaces: the Clara and Arleigh B. Williamson Theatre, a 900-seat concert hall, a recital hall, an experimental theater, lecture halls, an art gallery, and a small conference center.

Library: Designed with inviting reading rooms, open shelves, and study carrels, the Library research and
study facilities are enhanced by computer data-based operations available to all students. The Library Media Services make accessible pedagogical multimedia materials to distant classrooms and laboratories by means of the campus fiber-optic network.

Sports and Recreation Center: This 77,000 square-foot multipurpose facility and surrounding athletic fields serve the intercollegiate and intramural sports and recreation programs for students. On a membership basis, faculty, staff, alumni, and the general public also have access to the facilities.
Research Institutes and Centers

Center for Developmental Neuroscience and Developmental Disabilities
Dr. Alejandra del Carmen Alonso, Director
Office: Biological Sciences/Chemical Sciences Building (6S), Room 229
The Center for Developmental Neuroscience and Developmental Disabilities (CDNDDD) is a CUNY Center that conducts, promotes, and sponsors research, education, and training in the developmental neurosciences with special emphasis on research and educational programs in the specific field of developmental disabilities. The Center serves as a hub for collaborative efforts between the College and other research institutions in offering a Master of Science degree in Neuroscience and Developmental Disabilities, and also partnering with the CUNY Doctoral programs in multiple disciplines in mentoring Ph.D. students. On the CSI campus, the Center has established research laboratories for investigations in cellular, molecular, behavioral, and clinical neuroscience and provides advanced research training for graduate and undergraduate students.

Center for Environmental Science
Dr. Alfred M. Levine, Director
Office: Biological Sciences/Chemical Sciences Building (6S), Room 310
The Center for Environmental Science, established in 1987, provides support for research and policy recommendations concerning environmental problems. One of the major purposes of the Center is to define and solve environmental problems on Staten Island and its environs through research that includes studies of respiratory diseases, toxic and carcinogenic chemicals in the air, and the population at risk for lung cancer.

Center for the Study of Staten Island: Staten Island Project (SIP)
Dr. Richard Flanagan and Dr. Jonathan Peters, Co-Directors
The Center for the Study of Staten Island is designed to integrate the work of the College with the public affairs concerns of the people of Staten Island. To that end, it mediates and facilitates the collaboration of the College’s faculty, students, and staff with government, civic organizations, and businesses in order to identify and assist in finding solutions to the borough’s pressing public issues. More specifically, the Center serves as an information and consultation resource to prepare citizens and leaders to make better informed decisions about public life; it fosters the development of faculty research and undergraduate and graduate education through engagement with the Staten Island community; and it builds bridges to other public affairs institutes and local communities as a spur to innovations in public life on Staten Island. Whenever possible, the Center seeks to partner with community groups and agencies in advancing initiatives of mutual interest and in fulfilling consonant missions.

While encouraging and facilitating debate that accommodates differing and sometimes conflicting positions on controversial issues crucial to the community, the Center is committed to maintaining a nonpartisan stance.

Center for Interdisciplinary Applied Mathematics and Computational Sciences
The Center for Interdisciplinary Applied Mathematics and Computational Sciences brings together a wide range of research faculty and students with interests in interdisciplinary applications of mathematics and computational science.

The Center’s activities include the use of the campus super-computer, faculty collaboration, grant writing, student mentoring, undergraduate research, and sponsored lectures. More information can be found at www.math.csi.cuny.edu/ciamcs.

The City University of New York
The City University of New York (CUNY), of which the College of Staten Island is a part, traces its beginning to 1847 and a public referendum that provided tuition-free higher education for residents of New York City. The municipal college system grew rapidly and its various colleges were consolidated as The City University of New York by an act of the New York State Legislature in 1961. CUNY is comprised of 11 senior colleges, seven community colleges, the William E. Macaulay Honors College at CUNY, the CUNY Graduate Center, the CUNY Graduate School of Journalism, the CUNY School of Law, the CUNY School of Professional Studies, and the CUNY School of Public Health and Health Policy. It is the largest municipal college system and the third largest university in the nation.

The Board of Trustees
CUNY is governed by the Board of Trustees composed of 17 members, ten of whom are appointed by the Governor of New York State, and five by the Mayor of New York City. The chairperson of the University Faculty Senate serves ex officio, without vote; the chairperson of the University Student Senate serves ex officio, with vote. The individual colleges of CUNY have considerable latitude in governing their own affairs through various bodies representing faculty, students, and administrators. The Board of Trustees decides overall University policy and approves major new collegiate plans and programs.

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Sponsorship and Accreditation

The College of Staten Island is accredited by the Commission on Higher Education of the Middle States Association of Colleges and Schools, 3624 Market Street, Philadelphia, PA 19104; 215.662.5606. The Commission on Higher Education is an institutional accrediting agency recognized by the U.S. Secretary of Education and the Commission on Recognition of Postsecondary Accreditation.

The Bachelor of Science in Chemistry is accredited by the American Chemical Society (ACS), 1155 Sixteenth Street, NW, Washington, DC 20036; 800.227.5558.

The Bachelor of Science Computer Science is accred-
provided access to excellence in higher education since 1847, the College of Staten Island offers that same opportunity in New York City’s Borough of Staten Island. The College is dedicated to helping its students fulfill their creative, aesthetic, and educational aspirations through competitive and rigorous undergraduate, graduate, and professional programs. We embrace the strength of our diversity, foster civic mindedness, and nurture responsible citizens for our city, country, and the world.

Vision
The College of Staten Island will enhance the quality of its student-centered programs, research, scholarship, and creative works. The College will provide models for initiatives on technology, community, and our environment, as well as effective integration of programs, projects, and methodologies. CSI will develop a richer array of rigorous undergraduate and graduate degree offerings to better meet students’ educational and professional aspirations. The College of Staten Island will expand its role in The Graduate Center and other cross-campus activities of The City University of New York. We will become an even more vibrant center of intellectual and cultural exchange. The College will be strengthened by increasing its ability to serve a diverse campus community. Through these accomplishments, the College of Staten Island will achieve greater regional, national, and international recognition.

Values and Fundamental Principles
Our campus Community values:

Each Student
We nurture each student’s intellectual growth, curiosity, and excitement in order to prepare students to function in a complex and dynamic world.

Excellence in Research and Teaching
We set and meet high expectations in our academic programs through innovative and effective teaching, scholarship, and research. We strive to promote engagement among students and faculty.

Experiential Learning
We believe it is essential to provide transformational curricular and co-curricular opportunities, such as service learning, study abroad, leadership development, undergraduate research and scholarship, and internships.

Resourcefulness
We take pride in our work ethic, our ability to solve problems, and our stewardship of resources.

Community Engagement
We actively work to instill the value of civic participation and are proud of our leadership role for Staten Island and beyond. We foster partnerships to address public issues and encourage involvement in community affairs.

Our fundamental principles:

Diversity:
Drawing from the richness of our diverse community, we incorporate multiple approaches to developing and encouraging the inclusion of various world views, cultures, and experiences into the fabric of our institution.

Respect
In our relationships with each other, we insist on mutual respect and thoughtful dialogue. We provide forums for the exchange of ideas informed by the techniques of critical analysis and the traditions of scholarly discourse.

**Integrity**

We uphold the highest standards of honesty and fairness in our interactions with each other.

**Institutional Strategic Directions**

**Strategic Direction 1**

Develop a richer array of rigorous undergraduate and graduate degree programs that meet students’ educational and professional aspirations.

**Strategic Direction 2**

Enhance the quality and recognition of research, scholarship, and creative works for faculty and students.

**Strategic Direction 3**

Become a more vibrant center of intellectual and cultural exchange through community partnerships.

**Strategic Direction 4**

Strengthen and increase our ability to serve a diverse campus community.

**Strategic Direction 5**

Position the College to achieve greater regional, national and international recognition through advancement and fund raising activities.

**Strategic Direction 6**

Examine the College’s current and possible future uses of technology for a wide range of purposes.
Admissions
Office of Recruitment and Admissions
Director, Emmanuel Esperance, Jr.
Building 2A, Room 103
718.982.2010
Visit our Website: www.csi.cuny.edu/admissions

Procedures for admission as a first-year or transfer student from another college are outlined below. Campus tours are available Thursdays at 3:30pm, by appointment only, for prospective students and their guests. In addition, special on-campus programs and open houses are scheduled each semester. Students are also invited to visit particular departments by request.

Matriculated and Non-Degree (Non-Matriculated) Students
Students are classified into two groups according to their enrollment status: matriculated and non-degree. Matriculated students are those who have met the College admission requirements and are enrolled in a program of study leading to a degree. Non-degree (non-matriculated) students are those who are enrolled for credit courses but who are not officially registered in a degree program. Credits earned as a non-matriculated student may later be transferred to a degree program.

Students may enroll as candidates for the bachelor’s degree or the associate’s degree. Bachelor’s degree programs are designed to be completed in four years and associate’s degree programs in two years. The programs for the junior and senior years of study, upper-division programs, are structured for smooth articulation for students graduating with associate's degrees and students transferring from community colleges. The College has also developed auxiliary and pre-entry programs with support systems for those students returning to the classroom after an interruption in their education and for the not-so-recent high school graduate.

Academic Requirements for Admission to Bachelor’s Degree Programs (Four-Year)
Freshman Admission to Bachelor’s Degree Programs
1. An applicant for admission to a bachelor’s degree program must pass the three CUNY Assessment Tests, unless he/she qualifies for exemption based on a satisfactory performance on the SAT or ACT standardized tests or Regents Examinations.
2. Admission to a bachelor’s degree program is determined by an applicant’s score on the College’s admissions index. The index is based on the applicant’s high school courses and academic average and the combined verbal and mathematics SAT scores. An applicant whose score reaches or exceeds the College’s minimum index number will be admitted to a bachelor’s degree program. A faculty admissions committee may consider the baccalaureate admission of applicants whose scores approach the College’s minimum index number.

Applicants who are not admitted to a bachelor’s degree program may be eligible for admission to an associate’s degree program at the College.

Transfer Students Admission to Bachelor’s Degree Programs
Students are encouraged to continue in bachelor’s degree programs from associate’s degree programs at CSI, and they may also transfer from other colleges and universities into bachelor’s degree programs. Students must have passed the CUNY Assessment Tests in mathematics, writing, and reading prior to enrolling in a bachelor’s degree program. Final degree credit for transfer work depends on grades earned and College and departmental requirements. With some exceptions, a course with a grade of C or higher may be transferred. In the case of transfers from CUNY colleges, D grades are usually acceptable. Transfer credits carry a grade of Pass (P) on the CSI transcript. Transfer students from other CUNY colleges are encouraged to visit CUNY’s online Transfer Information and Program Planning System (CUNY TIPPS) at www.tipps.cuny.edu for information about transfer credits.

Based on University policy, all liberal arts and sciences courses taken in one City University college are considered transferable, with full credit, to each college of The City University, and full credit will be granted for these courses in all departments and programs and recognized for the fulfillment of degree requirements. See section on Pathways General Education Requirements for details on transfer of courses in this category.

Students must earn a minimum of 30 credits at the College and, to qualify for a bachelor’s degree, at least half of the credits required for the major. Students who transfer with 30 or fewer credits must complete 12 College Option credits. Students who transfer with more than 30 credits but without an Associates Degree must complete a maximum of 9 College Option credits. Students who transfer with a completed Associates Degree must complete a maximum of 6 College Option credits.

Work completed at other colleges may be used to fulfill Pathways General Education and other requirements. The Office of the Registrar will evaluate each student’s transcript. Every effort will be made to apply the course work previously completed by transfer students to the general education requirements at CSI.

In many programs, particularly in professional and scientific disciplines, students are required to complete specific courses before being considered for admission to these programs. Generally, these courses are taken during the first two years of study as necessary preparation for the advanced work required. Students seeking admission to these programs may have to spend additional time completing pre-major courses.
Academic Requirements for Admission to the Macaulay Honors College

Students who are entering college for the first time may apply for admission to the Macaulay Honors College of CUNY at the College of Staten Island. Applicants are expected to have an academic diploma with an average of at least 90. The admissions committee for the Macaulay Honors College considers the following documents submitted by applicants: high school transcript; scores on Regents Examinations; scores on the SAT, ACT, and achievement tests; Advanced Placement courses; extracurricular activities; evidence of talents and interests; letters of recommendation; and personal essay. Personal interviews are also required. Admission is limited and competitive. Details on the Macaulay Honors College University Scholars Program admission process are available online at: wwwcsi.cuny.edu/honorscollege/.

Academic Requirements for Admission to the Teacher Education Honors Academy

Entering freshmen or students with less than 30 undergraduate credits may apply for admission to the Teacher Education Honors Academy. Entering freshmen are expected to have a high overall high school average (a minimum of an 85 College Admissions Average); a college preparatory program in science and mathematics; high grades in mathematics and science courses; high Regents scores in mathematics and science subjects; and high SAT or ACT scores. Students with college credits must have a college GPA of 3.0. All candidates must submit two recommendations that include at least one from a math or science teacher and must have a strong desire to be a teacher in a New York City high school or middle school.

For information or an application, please call 718.982.3609.

Academic Requirements for Admission to The Verrazano School

Entering freshmen or students with fewer than 11 undergraduate credits may apply for admission to The Verrazano School at the College of Staten Island. Admission for these students to The Verrazano School is based upon the following criteria:

- Verrazano Supplemental Application, including two letters of recommendation;
- Strong academic high school record;
- High SAT or ACT standardized test scores;
- Passing of, or exemption from, all three CUNY Assessment Tests;
- Acceptance to a baccalaureate program at CSI;
- Demonstration of leadership, community service, creativity, talent, and enthusiasm. Personal characteristics that will contribute to The Verrazano School community are also considered.

The Verrazano School also accepts applications from transfer and current students who have accumulated more than 11 credits and fewer than 36 undergraduate credits at the conclusion of the term of their application. Admission to The Verrazano School for current CSI students and transfer students is based upon the following criteria:

- Verrazano Supplemental Application, including two letters of recommendation;
- Full time enrollment in a baccalaureate program at CSI;
- A minimum 3.0 cumulative GPA at CSI or another accredited institution.
- Passing of, or exemption from, all three CUNY Assessment Tests;
- Demonstration of leadership, community service, creativity, talent, and enthusiasm. Personal characteristics that will contribute to The Verrazano School community are also considered.

For information or an application, please visit www.csi.cuny.edu/verrazanoschool or call 718.982.4171.

Academic Requirements for Admission to Associate’s Degree Programs (Two-Year)

Freshman Admission to Associate’s Degree Programs

Applications for matriculation as a first-time student will be accepted from persons who have never attended any institution of higher education (with the exception of those students who have taken college courses while in high school) and who have either:

1. graduated from an accredited high school, or
2. earned an equivalency diploma (GED), or
3. are currently attending high school and will receive a diploma prior to enrollment.

A diploma from an accredited high school is required for admission to the College. Scores on either the New York State Equivalency Diploma Examination or the General Education Development Examination are accepted as substitutes for the high school diploma provided that the student attains a score of 35 or higher on each of the five tests, with a total score of 225 or higher.

Starting in the Fall 2009 semester, in order to advance into nursing clinicals, students must provide documentation for one of the following categories:

1. United States citizenship
2. Permanent residency
3. International student with F1 status
4. Granted asylum, refugee status, temporary protected status, withholding of removal, deferred enforced departure; or deferred action status by the United States government
Transfer Student Admission to Associate’s Degree Programs

Applicants who have attended another college must file a transfer application. Applications for matriculation will be accepted from transfer students who have an official transcript verifying attendance at another college. As a general rule, the College requires a grade point average equivalent to a C for transfer as a matriculated student.

The Office of the Registrar will evaluate credits of transfer students for advanced standing. Final degree credit for transfer work depends on grades earned and College and departmental requirements. With some exceptions, a course with a grade of C or higher may be transferred. In the case of transfers from CUNY colleges, D grades are usually acceptable. Transfer credits carry a grade of Pass (P) on the CSI transcript. However, all students must complete a minimum of 30 credits at the College, including at least one-half of the credits required for the core, in order to earn an associate’s degree.

Starting in the Fall 2009 semester, in order to advance into nursing clinicals, students must provide documentation for one of the following categories:

1. United States citizenship
2. Permanent residency
3. International student with F1 Status
4. Granted asylum, refugee status, temporary protected status, withholding of removal, deferred enforced departure; or deferred action status by the United States government

Admissions Committee

An Admissions Committee of six members of the faculty and administrative staff considers all matters affecting the admission of students to the College of Staten Island, including academic requirements.

Filing an Application

Filing an Application

Applicants must apply online at www.cuny.edu. CSI has continuous admissions; however, applications should be filed early. Priority deadline for the Fall semester is February 1. Priority deadline for the Spring semester is September 15th.

Freshman Applicants

Freshman (first time) applicants are students who have not previously attended any college, university, and/or proprietary school within or outside the United States since graduating from high school or secondary school. Applicants are required to submit the following to be considered for admission to the College of Staten Island:

- Completed freshman application
- $65 application fee
- Official high school transcript
- Copy of high school diploma or high school equivalency diploma and scores
- SAT or ACT scores (required for entrance to baccalaureate programs)

Transfer Applications

Transfer applicants are students who have attended any college, university, and/or proprietary school since graduating from high school or secondary school. This applies whether or not the applicant is seeking transfer credit and/or changing program of study. Applicants are required to submit the following to be considered for admission to the College of Staten Island:

- Completed transfer application
- $70 application fee
- Official college transcript(s)
- Official high school transcript
- Copy of high school diploma or GED diploma and scores

Students must meet the standards of proficiency in the basic skills areas of reading, writing, and mathematics established by the University to transfer to a bachelor’s degree program.

Non-Degree (Non-Matriculated) Applications

Non-matriculated (non-degree) students may obtain an Undergraduate Non-Degree application from Enrollment Services in Building 2A, Room 106; online at www.csi.cuny.edu/registrar/importantforms; or at the time of registration.

College Preparatory Initiative (CPI)

The College Preparatory Initiative (CPI), a collaborative effort between The City University of New York and the New York City Board of Education, was designed to strengthen the academic preparation of high school students. This requirement for all students entering CUNY colleges is 16 units. See section on Degree Requirements for complete details.

High school students should consult with guidance counselors to ascertain which courses meet the CPI requirements. GED students will receive units in English and mathematics based on their test scores. Students who have not completed the CPI requirements prior to enrolling in the University will be required to demonstrate skills and knowledge in the discipline areas in which they lack preparation. In most cases, this will be accomplished by taking college courses in designated academic areas. No student will be eligible for graduation from CSI until all CPI requirements are satisfied.

Advanced Placement

The College will grant course credit for advanced placement courses offered in secondary school when students score 4 or 5 on the advanced placement test. A maximum of 30 credits will be awarded on the basis of special examinations taken prior to admission. These include approved high school advanced placement examinations, Regents Examinations, Educational Testing Service examinations, Departmental Challenge examinations, New York State College Proficiency examinations, and the College Level Examination Program.
(CLEP). Further information is available from the Office of the Registrar and at http://www.csi.cuny.edu/transferguide/.

**International Students**
The Center for Global Engagement at CSI facilitates admission and registration for international students. The Center is located in the Building 2A, Room 206; telephone 718.982.2100 or visit our Website: www.csi.cuny.edu/international.

**SEEK Program**
SEEK Director Gloria Garcia, South Administrative Building (1A), Room 112
The SEEK Program (Search for Education, Elevation, and Knowledge) is a New York State program for residents who are in need of both academic and financial assistance in order to obtain a college education. Information about the program and the application process may be obtained from the SEEK Office, 1A, Room 112; telephone 718.982.2410 or visit our Website: www.csi.cuny.edu/seek.

**After Acceptance to the College of Staten Island**
After Acceptance to the College of Staten Island
Please visit the New Student Information Guide for detailed information. The Guide will lead you through the enrollment process, saving you time and enhancing your registration experience.
Generally, the enrollment process will include:
- Completion of CUNY Assessment Tests and/or Placement Examination
- Payment of a commitment deposit
- Submission of immunization and medical records
- Orientation, academic advisement, and registration
- Attend a mandatory two-day New Student Orientation which includes academic advisement and registration (freshmen only)
- Meet with a Transfer Registration and Advisement Communication (TRAC) team member in the Center for Advising and Academic Success for advisement and registration (transfers only)
- Paying your bill

Other related services and possible enrollment steps include:
- Applying for financial aid (All students are strongly encouraged to file)
- Test preparation for the CUNY Assessment Tests
- Enrollment in free immersion programs (workshops) for students who need to retake any assessment tests

**Conditional Admissions/Remediation Policy for Non-Exempt Students**
The outcomes of the CUNY Assessments Tests may impact your admission status, enrollment in the immersion programs and at the college. Please be aware of the following enrollment requirements:

All students who have failed:
- parts 1 & 2 of the CUNY Assessment Test in Mathematics are required to complete CSI’s free July Math Immersion program prior to enrolling at the College.
- the CUNY Assessment Tests in Reading, Writing and Mathematics (parts 1 & 2) must enroll in and complete at least one semester of the CUNY Start program and pass one or more of the Assessment Tests in order to enroll at the college. Such students may choose to enroll in the July Immersion Program and then continue in CUNY Start in the fall.
- the CUNY Assessment Tests in Reading and Writing, and have failed one part of the Mathematics Test must enroll in and complete Reading and Writing Immersion in the July and August sessions. Upon completing Immersion, these students must have passed the Reading and Writing Assessment tests in order to enroll at the College and must register for and complete Math 20 in the semester following Immersion. Students who have not passed both must enroll in CUNY Start.

Students who have failed the CUNY Assessment Tests in Reading and Writing but have passed at least one part of the Mathematics Test and decide not to enroll in Immersion must enroll in CUNY Start and cannot enroll at the College.

**Admission of Sex Offenders**
The College reserves the right to deny admission to any student if in its judgment, the presence of that student on campus poses an undue risk to the safety and security of the College or the College community. That judgment will be based on an individualized determination taking into account any information that the College has about a student's criminal record and the particular circumstances of the College, including the presence of a childcare center, a public school, or public school students on the campus.
Registrar
Office of the Registrar
Interim Registrar, Yechiel J. Rosenrauch
Building 2A, Room 110
718.982.2120
Visit our Website: www.csi.cuny.edu/registrar

The Office of the Registrar assists students in navigating the necessities of the school. The Office performs a variety of services both online and in person for students including: registration, transcript ordering, grade reporting, enrollment certification, final examination scheduling, the schedule of classes, college catalog, academic calendars, transfer credit evaluation, degree audit, and graduation evaluation.

Registration
Students must register each semester. Registration and appointment materials are sent by the Office of the Registrar prior to registration to all current, readmitted, and newly admitted students. An open registration period is scheduled at the beginning of each semester for students who miss their registration appointments or who are returning to CSI too late for an appointment to be scheduled.

Students scheduled for registration using their CUNYfirst self-service account may register and perform program changes following the procedures accompanying the registration e-mail notification. Instructions for using CUNYfirst are also available online.

A detailed registration schedule and class listings are available online each semester on the Registrar’s website. Registration is not complete until all financial obligations have been satisfied. The Registrar’s Office is in Building 2A, Room 110.

Special Categories of Registration
Permit/Visiting Students
Permit students from within The City University must submit a valid CUNY permit through the ePERMIT system from their home college to the CSI Registrar’s Office prior to registration. Visiting students from outside The City University must submit the Visiting Student Application available online on the Registrar’s website along with documentation from their home schools that they have permission to enroll at CSI.

Senior Citizens
Senior citizens, 60 years and older, may be permitted to enroll in undergraduate courses as non-matriculated students, on a space-available basis, without tuition and fees, provided they do so on an audit basis. Senior citizens enrolling as auditors are charged an administrative fee and a Consolidated Service Fee for the semester as indicated in the Fee Schedule.

A senior citizen may enroll in courses for credit but cannot be enrolled in the same semester for courses on both an audit basis (no tuition) and a credit or degree basis (tuition charged).

Readmission
Undergraduate students who do not register for a semester and then decide to return in a subsequent semester must file an application for readmission with the Registrar. Readmission is routine unless the student is applying for a different curriculum, which may entail a review of qualifications. Applications may be filed online at www.csi.cuny.edu/registrar/forms.php4. Students who have been academically dismissed by the College will be readmitted only upon successful appeal to the Committee on Course and Standing. Please refer to the Counseling Center website for further information on Readmission and Grade Appeals.

Immunization Requirement
New York State Public Health Law requires that all college and university students be informed of the meningococcal disease, a potentially fatal bacterial infection commonly referred to as meningitis. The College of Staten Island is required to maintain a record of the following for each student:

• A response to receipt of meningococcal disease and vaccine information signed by the student or if a student is under the age of 18, by the student’s parent or guardian. The information provided to you must include information on the availability and cost of meningococcal meningitis vaccine (Menomune™); AND EITHER
  • A record of meningococcal meningitis immunization within the past ten years;
  OR
  • An acknowledgment of meningococcal disease risks and refusal of meningococcal meningitis immunization signed by the student or if a student is under the age of 18, by the student’s parent or guardian.

Meningitis is rare. However, when it strikes, its flu-like symptoms make diagnosis difficult. If not treated early, meningitis can lead to an increase in fluid surrounding the brain and spinal column as well as severe and permanent disabilities, such as hearing loss, brain damage, seizures, limb amputation, and even death. Cases of meningitis among teens and young adults 15 to 24 years of age (the age of most college students) have more than doubled since 1991. The disease strikes about 3,000 Americans each year and claims about 300 lives. Between 100 and 125 meningitis cases occur on college campuses and as many as 15 students will die from the disease. A vaccine is available that protects against four types of the bacteria that cause meningitis.
in the United States: types A, C, Y, and W-135. These types account for nearly two-thirds of meningitis cases among college students. The College of Staten Island does not offer meningococcal immunization. The meningitis vaccine is provided at the New York City Department of Health Travelers’ clinics, www.cdc.gov/travel/contentFindClinic.aspx. The meningitis vaccine may or may not be covered by insurance. The vaccine cost is approximately $75. The Ryan Chelsea Clinton Community Center, 645 Tenth Avenue (between 45th and 46th) New York, NY 10036, 212.265.4500, offers the meningitis vaccine at a low and affordable cost. Note: Per public health law, the College may not permit any student to attend the institution in excess of 30 days without complying with this law.

To learn more about meningitis and the vaccine, please consult your physician. You can also find information about the disease at:

The College Health Center’s Website:
www.csi.cuny.edu/studentaffairs/healthservices
New York State Department of Health Website:
www.health.state.ny.us/prevention/immunization/index.htm
Centers for Disease Control and Prevention (CDC) Websites:
www.cdc.gov/travel/contentFindClinic.aspx and
www.cdc.gov/DiseasesConditions
American College Health Association (ACHA) Website:
www.acha.org/projects_programs/meningitis/disease_info.cfm#overview
and the National Meningitis Association (NMA), Website: www.nmaus.org

I.D. Cards
Each student will be provided with a photo identification card. Each semester the I.D. cards are validated upon completion of registration. Validated I.D. cards must be carried by a student on campus at all times. Duplicate I.D. cards are available at a cost of $5.
Tuition and Fees
Bursar, Michael D. Baybusky
Building (2A), Room 105
718.982.2060
Visit our Website: www.csi.cuny.edu/bursar

All tuition and fees listed in this Catalog and in any registration materials issued by the College are subject to change without prior notice by action of the CUNY Board of Trustees.

All tuition and fee schedules are necessarily subject to change without notice, at any time, upon action by the Board of Trustees of The City University of New York regardless of tuition and fee schedules in effect at the time of this printing.

If you do not make full payment on your tuition and fees and other college bills and your account is sent to a collection agency, you will be responsible for all collection costs, including agency fees, attorney fees, and court costs, in addition to whatever amounts you owe the College.

In addition, non-payment or a default judgment against your account may be reported to a credit bureau and reflected in your credit report.

Payment
Students are responsible for all Tuition and Fee payments based upon their registration. Once a student registers for a semester they are considered to be enrolled at the college unless they officially withdraw through the Registrar's Office. If a student does not officially withdraw prior to the start of the semester they are responsible for all tuition and fee charges based upon the CUNY's academic calendar regardless of their class attendance. Any student that does not pay their bill in full by their due date is subject to removal from their classes at the discretion of the College. Please be aware that students are responsible for all tuition and fee charges regardless of their Financial Aid eligibility. Students with unpaid charges will not be permitted to register for additional classes or to receive official documents from the college.

Place of Residence
Students are eligible for the tuition rate for residents of New York State if they meet the following requirements for resident status: are 18 years of age or older, are United States citizens or aliens with permanent resident status, have maintained their principal place of abode in New York State for a period of 12 consecutive months immediately preceding the first day of classes for the semester under consideration, and state their intention to live permanently and maintain their principal place of abode in New York State. The residence of a person under the age of 18 is that of his/her parents unless the person is an emancipated minor (one whose parents have intentionally and voluntarily renounced all the legal duties and surrendered all the legal rights of their position as parents). Students currently classified as non-residents, who wish to apply for resident status, must present proof that the above conditions have been met to the Office of Admissions or the Office of the Registrar.

Student Status
Full-Time and Part-Time
Undergraduate students are considered part-time if they are registered for 11 equated credits or less. A student is considered full-time if registered for 12 or more equated credits in a semester. Students applying for TAP should see the requirements for TAP eligibility on the Office of Financial Aid's website.

Part-time undergraduate matriculated students are charged the tuition rate on a per equated credit basis (1-11 equated credits).

Undergraduate full-time students are charged tuition on a per semester basis; undergraduate non-resident full-time students are charged tuition on a per equated credit basis.

Summer session and non-degree students are billed on a per equated credit basis regardless of the number of equated credits for which they register. There are no maximum tuition limits for summer session or non-degree students. Non-degree students (as of June 1, 1992) pay a higher rate than matriculated students.

Senior Citizens
Individuals satisfying the New York City/State residency requirements and who are 60 years of age or older (as of the first day of the semester or session) are permitted to enroll in undergraduate courses on a space-available basis. Proof of age is required by the College; the following forms of proof of age are acceptable: Medicare card, driver's license, or birth certificate.

Administrative fee: A non-refundable administrative fee of $65 per semester or session is charged senior citizens who are enrolling on an audit basis. The application fee and Student Activity Fee are not charged. Senior citizens as students are responsible for the Consolidated Service Fee and any other fees they might incur.

Undergraduate courses: For senior citizens enrolled in undergraduate courses, tuition will not be charged provided credit is not given for the course(s). Senior citizens are enrolled on an audit basis and will receive an AUD grade. Senior citizens who wish to enroll for credit must pay the applicable tuition and fees, including the application fee and the Student Activity Fee. Senior citizens cannot be registered on both an audit basis (no tuition) and a credits basis (tuition charged) during the same semester.

Graduate courses: Senior citizens are not permitted to register free of tuition or fee for graduate-level courses. Senior citizens may register for graduate courses on a space-available basis and are charged the graduate tuition rate regardless. No exception is made for matriculated or non-matriculated status. The Student Activity Fee and application fee must also be paid.
Tuition

All tuition and fee charges are subject to change without prior notice by the CUNY Board of Trustees.

UNDERGRADUATE

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<tr>
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<th>Non-Resident</th>
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<tr>
<td>full-time matriculated</td>
<td>$3,265/semester</td>
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GRADUATE*

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Academic Excellence Fee*

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<td>part-time</td>
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<td>excess hours</td>
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DPT for Current Enrolled Cohorts

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<td>full-time Level 2</td>
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DPT Effective Fall 2017

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*Academic Excellence Fee is applicable to all Graduate Nursing Programs.

Office by the last business day before the first day of classes.

Non-Instructional Fees

Fees are subject to change without prior notice by the CUNY Board of Trustees.

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Service Fee Application:

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*Included in the Student Activity Fee is the NYPIRG ($4) fee.

Students attending both the Winter Session and following spring semester will be charged fees based on total
credits for winter and spring semester combined. All non-matriculated and visiting students attending the Winter Session only will be charged fees based on credits enrolled. All matriculated students attending the Winter Session only will not be charged fees for the Winter Session.

Effective Summer 2013, students attending both Summer Session I and Summer Session II will be charged a separate Student Activity Fee, Senate Fee, and Consolidated Service Fee for each session.

Material Fees
Special material fees of $10 or more are required in some courses and subject to change at any time by the Board of Trustees of The City University of New York. (Materials charges are not refundable).

Library Fines
Overdue books:
General circulation: 10 cents per day, including days on which the Library is closed, to a maximum of the current price of the item.

Reserve items:
$1.20 per overdue hour to a maximum of the current price of the item.

Damaged book:
Borrower must pay any overdue fines up to and including the date the item is reported as being damaged, plus an amount to be determined by the nature and extent of the damage, not to exceed the current price of the item, plus a processing charge of $10.

Lost item:
Borrower must pay a $10 processing charge in addition to the current price of the item.

Tuition and Fee Refunds
When courses are canceled by the College, a full refund of appropriate tuition and fees will be made. In cases of student-initiated withdrawals, the date on which the withdrawal application is received by the Registrar, not the last date of attendance, is considered the official date of withdrawal for the purpose of computing refunds. Withdrawal from a course before the beginning of classes allows a 100 percent refund of tuition and the CUNY accelerated study fee; and withdrawal from the College in order to register at another unit of The City University during the same semester allows a 100 percent refund of tuition and the CUNY accelerated study fee. Information about refunds for withdrawal under other circumstances is shown in the Academic Calendar located on the Registrar's home page. Class non-attendance, informing the instructor of withdrawal, or altering the bill to indicate intention to drop a course DOES NOT constitute an official withdrawal. If a portion of the tuition has been paid with federal financial aid funds, that portion of any tuition refund is returned to the appropriate financial aid program.

Students should be aware that withdrawal or failure to complete a course affects their financial aid obligations. Questions about financial aid obligations should be referred to the Office of Financial Aid.

Except for the NYPIRG portion of the Student Activity Fee, there are no fee refunds. The NYPIRG amount ($4) is refundable through the NYPIRG Office only.

Return of Title IV Funds
Title IV (Pell, SEOG, Direct, and Perkins Loans) recipients who withdraw from all courses, officially or unofficially, are subject to a calculation to determine earned Federal Financial Aid. This calculation may require a payment toward tuition and fees that previously were determined to have been satisfied.

Medical Withdrawals
Medical withdrawals, which must include documentation from a physician, should be addressed to the College Health Center. Medical withdrawals are subject to the regular College refund policy. Refer to the Registrar's website for more details.
Financial Aid
Student Financial Aid Office
Building 2A, Room 401
Director, Philippe Marius
Telephone: 718.982.2030
Fax: 718.982.2037
E-mail: FinancialAid@csi.cuny.edu
Website: www.csi.cuny.edu/finaid

The mission of the Office of Student Financial Aid of the College of Staten Island is to facilitate students' access to public and private financial assistance programs for post-secondary education. The Office assists students and their families in applying for aid and aims to generate delivery of aid funds to students most expeditiously within all applicable rules, regulations and procedures of funding entities, CUNY, and the College.

For the more information about the Financial Aid Application Process and eligibility please visit our website at www.csi.cuny.edu/finaid or contact us by email FinancialAid@csi.cuny.edu.

Office Hours:
Monday through Friday, 9:00am – 4:45pm*

*A representative from the Office of Student Financial Aid is available in Enrollment Services Thursday evenings from 5:00 – 7:00pm.
Scholarships and Awards
Scholarship Committee
Director, Caryl Watkins
Career and Scholarship Center
Building 1A, Room 105
718.982.2300
Website: www.csi.cuny.edu/career

The scholarship program at the College of Staten Island recognizes academic excellence and college or community service. In addition to scholarships offered directly by the College, the CSI Foundation, and departments and associations of the College, memorial scholarships have been endowed through the generosity of many individuals and organizations who value higher education. Scholarships support, in varying ways, the education of the men and women of our community.

Eligibility: General Standards
Scholarship awards generally require a minimum grade point average of 3.5. College and/or community service is also generally required. Financial need is required only when indicated. Scholarships are awarded to students enrolled for 12 or more credits at all levels of study—first-year students, sophomores, juniors, and seniors. Some scholarships may be available for part-time undergraduate and graduate students.

Requirements
• Registered for at least 12 credits (matriculated), with the exception of a few specialized scholarships for part-time and graduate students.
• Academic excellence (GPA 3.25 or above).
• School and/or community service.
• Incoming students: high school average of 95% or above.

Relationship to Financial Aid
In most instances, scholarship awards do not affect TAP awards. New York State TAP regulations require that tuition-based scholarships be used as a resource in determining eligibility for a TAP award. Because most of the awards offered by CSI are not designated as tuition scholarships, they will have no effect on TAP awards. Only awards specifically designated as tuition awards, such as the Williamson Scholarship, affect eligibility for TAP. Students who wish additional information on the relationship between these awards and financial aid should contact the Office of Student Financial Aid.

How to Apply
Scholarship applicants must be current students at the College of Staten Island or must have applied for admission. Application forms and information about scholarships are available online or from the Career and Scholarship Center and academic departments and student services offices. In the high schools, application forms are available from the College Advisor. The scholarship application can also be found online by visiting www.csi.cuny.edu/career and clicking on the Scholarships and Awards option in the left tool bar.

Notification to Recipients
Applicants are notified by the Scholarship Committee. An awards ceremony and reception is held every year for scholars and their family and friends.

Other Awards
Study Abroad: Scholarships and awards for study abroad are available through the Center for International Service. CSI students are also eligible for Study/Travel Opportunities for CUNY Students grants, a CUNY program promoting short-term (summer or January in-ter-session) study abroad, and for scholarships offered by the College Consortium for International Studies. Information is available from the Center for International Service.

Graduate Students: Assistance is available in the form of financial aid and assistantships to selected students in Master's degree programs in Adult Health-Gerontological Nursing, Biology, Cinema and Media Studies, Computer Science, Education, English, Environmental Science, History, Liberal Studies, and Physical Therapy. Graduate fellowships and assistantships are available to qualified students enrolled in doctoral programs offered in conjunction with the Graduate School. See the department chairperson or the graduate program coordinator for further information.

Commencement Awards: Awards and prizes have been established by the faculty to recognize the exceptional achievements of graduating students. Information on Commencement awards is available from the Office of the Vice President for Student and Enrollment Services and from department chairpersons.

Divisions, Schools, and Departments
Interrelationships between fields of knowledge are emphasized by grouping academic departments together within the larger categories of humanities and social sciences or science and technology. The Division of Humanities and Social Sciences includes the following departments: English, History, Media Culture, Performing and Creative Arts, Philosophy, Political Science and Global Affairs, Psychology, Social Work, Sociology, Anthropology, and World Languages and Literatures. The Division of Science and Technology includes the following departments: Biology, Chemistry, Computer Science, Engineering Science and Physics, Library, and Mathematics. The School of Business includes the following departments: Accounting and Finance, Economics, Management, and Marketing. The School of Education includes the following departments: Curriculum and Instruction, and Educational Studies. The School of Health Sciences includes the following departments: Nursing, and Physical Therapy.
The offices for Dean Nan Sussman, Division of Humanities and Social Sciences, and for Dean Vivian Incera, Division of Science and Technology, is located in Building 1A. The office for Dean Susan Holak, School of Business, is located in Building 3N. The office for Dean Kenneth Gold, School of Education, is located in Building 3S. The office for Dean Marcus Tye, School of Health Sciences, is located in 5S. The office of the Chief Librarian William Jones, is located in Building 1L, 109.
Division of Humanities and Social Sciences

The Division of Humanities and Social Sciences includes the following departments: English, History, Media Culture, Performing and Creative Arts, Political Science and Global Affairs, Philosophy, Psychology, Sociology/Anthropology, and World Languages and Literatures.

Department of English

Building 2S
Lee Pap, Chairperson and Associate Professor
Distinguished Professor: Sarah Shulman

The department offers the Bachelor's degree in English, with options in Literature, Writing, and Linguistics; and the Master's degree. The department also offers non-credit courses in reading and writing for both native and non-native speakers of English.

A general course of study provides students in career programs and in baccalaureate programs with essentials in the important areas of writing and literature. A more advanced series of courses is available for students interested in obtaining a deeper and broader understanding of the discipline, including those students who will pursue English as a major. Students with majors in other disciplines may minor in English with a literature, linguistics, or writing option. The department offers a program in Communications jointly with the faculty of the Department of Media Culture and programs in Drama and Dramatic Literature jointly with faculty of the Department of Performing and Creative Arts. The Master's degree program is coordinated by Professor Katherine Goodland.

Department of History

Marchi Hall 2N
Eric Ivison, Chairperson and Associate Professor

The department offers a Bachelor's degree and a Master's degree in History. Its courses combine the traditional function of the scholarly examination of the past for its value in general education with the utilitarian concern for preparing students with the basic skills to enable them to live more meaningfully. It seeks to train future historians, to update the teaching of history by secondary school teachers, and to provide opportunities for lifelong education. History may also be taken as a minor. Assistant Professor John Dixon, coordinates the Master's degree program in History. Associate Professor Emmanuel Mbah is the director of the interdisciplinary Bachelor's degree program in African and African Diaspora Studies.

Department of Media Culture

Center for the Arts 1P
David Gerstner, Chairperson and Professor

The department offers Bachelor's degrees in Cinema Studies and in Communications, and a Master's degree in Cinema and Media Studies. Programs in this department focus on the principles of media, interactions with the media, and the cultures dependent upon communications technologies. The department serves students interested in the history and theory of film and various electronic and computer-related media, and in producing works with these media. The program in Communications is offered in collaboration with the Department of English. A minor is also awarded in the Baccalaureate programs. The Master's degree program in Cinema and Media Studies is co-coordinated by Assistant Professor Jillian Baez and Professor Edward Miller.

Department of Performing and Creative Arts

Center for the Arts 1P
George Emilio Sanchez, Chairperson and Professor

The department offers BA, BS, or BFA degrees. The areas in which degrees are offered include Art, (with concentrations in Photography and Studio Art); Drama; and Music (with concentrations in Classical Performance, Theory and Literature; Music Technology; and Jazz Studies and Performance). There is also a Dramatic Literature concentration jointly offered with the Department of English. Students may minor in Art, Dance, Dramatic Arts, Music and Photography. Assistant Professor William Bauer is the director of the interdisciplinary Bachelor's degree program in American Studies.

The department serves the needs of students who wish to pursue both the practice and the theory of the arts. In addition to preparing students majoring in the arts and
those planning to continue in graduate school, the department's courses meet the needs and interests of students in the liberal arts and sciences and in career programs, and foster the role of the arts within the framework of a liberal education.

**Department of Philosophy**  
Marchi Hall 2N  
Mark D. White, Chairperson and Professor  

The department offers a Bachelor's degree, a minor in Philosophy, a minor in Ethics; and it offers a dual major jointly with the Department of Political Science and International Studies, and the department's programs provide a solid background for a number of careers as well as for graduate or professional school.

**Department of Political Science and Global Affairs**  
Marchi Hall 2N  
Richard Flanagan, Chairperson and Professor  

The department offers a Bachelor's degree in Political Science and Geography. A dual major is offered jointly with the Department of Philosophy in Philosophy and Political Science. Minors are offered in Geography, Legal Studies, Political Science, and Public Administration. Associate Professor Jane Marcus Delgado is the director of the Bachelor's degree in International Studies. Courses meet the needs of students in a variety of programs in the liberal arts and sciences, and the department's programs provide a solid background for a number of careers as well as for graduate or professional school. Associate Professor Michael Paris is the advisor to students planning to apply to law school.

**Department of Psychology**  
Building 4S  
Kathleen (Katie) Cumiskey, Chairperson and Associate Professor  

The department offers both Bachelor of Arts and Bachelor of Science degrees. Students can also earn a minor in psychology which can be combined with many other majors. In addition, the department offers Advanced Certificate in Autism Spectrum Disorders and the Master of Arts degree in Clinical Mental Health Counseling. The department participates in the Master's program in Neuroscience, Mental Retardation, and Developmental Disabilities. The director of the Master's degree program in Clinical Mental Health Counseling is Dr. Frances Melendez. The coordinator of the Advanced Certificate in Autism Spectrum Disorder is Dr. Kristen Gillespie-Lynch.

**Department of Sociology and Anthropology**  
Building 4S  
Ismael Garcia-Colon, Chairperson and Associate Professor  

The department offers a combined Bachelor's degree in Sociology/Anthropology and a minor is offered in Sociology. The department also participates in interdisciplinary major/minors in Disability Studies; Liberal Studies (MA); Science, Letters, and Society; and Women's Gender and Sexuality Studies.

Associate Professor Ismael Garcia Colon coordinates the Master's degree program in Liberal Studies. Associate Professor Rafael dela Dehesa is a co-director of the Certificate in Latin American, Caribbean, and Latina/o Studies Program.

**Department of World Languages and Literatures**  
Building 2S  
Gerry Milligan, Chairperson and Associate Professor  

The department offers programs of study leading to Bachelor of Arts degrees in Italian Studies and Spanish; minors in American Sign Language, Arabic, Chinese, French, Italian, and Spanish. The programs are designed to give students knowledge about the literature and culture of the language studied, in addition to linguistic competence.

The director of the Science Letters and Society program is Professor Francisco Soto. Assistant Professor Alvaro Bacquero-Pecino is the director of the Certificate in Latin American, Caribbean, and Latina/o Studies Program.
Division of Science and Technology
The Division of Science and Technology includes the following departments: Biology, Chemistry, Computer Science, Engineering Science and Physics, and Mathematics.

Department of Biology
Building 6S
Abdeslem El Idrissi, Chairperson and Professor

The department offers the Bachelor’s degree in Biology, with concentrations in: Bioinformatics; Ecology, Evolution, and Behavioral Biology; Molecular, Cellular, and Developmental Biology; Neuroscience; and Health Science. The department offers the Bachelor’s degree in Biology Adolescence Education (7-12). The department offers a Master of Science degree in Biology. The department participates in the joint program for the Bachelor’s degree in Biochemistry and a minor in Biochemistry, and in the interdisciplinary program leading to the Bachelor’s degree in Medical Technology. The department is active in the University’s Doctoral program in Biology, with many students in Ecology, Evolution and Behavior and Molecular, Cell and Developmental Biology; and Neuroscience. The Medical Technology program utilizes hospital affiliations accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS).

The MS program in Biology is coordinated by Professor Frank Burbrink. Assistant Professor Jimmie Fata serves as Chair of the advisory committee for pre-medicine students.

Department of Chemistry
Building 6S
Chairperson and Professor Qiao-Sheng Hu
Distinguished Professor: Fred Naider

The department offers the Bachelor’s degree in Chemistry and participates in the joint program leading to the Bachelor’s degree in Biochemistry. Minors are offered in Chemistry and Biochemistry. The department also participates in the interdisciplinary program leading to the Bachelor’s degree in Medical Technology. The University’s Doctoral program in Polymer Chemistry is coordinated by Professor Nan-Loh Yang.

Department of Computer Science
Building 1N
Susan Imberman, Chairperson and Associate Professor

The department offers programs leading to the Bachelor’s and Master’s degrees in Computer Science. The Bachelor’s degree in Computer Science/Mathematics is offered jointly with the Department of Mathematics; the Bachelor’s degree in Information Systems and Informatics is offered jointly with the School of Business; and the department participates in the University Doctoral program. Baccalaureate students majoring in other disciplines may also minor in Computer Science. The department offers an Associate’s degree program in Computer Technology that provides sound career preparation as well as a solid foundation for continued study in the field. Faculty in the department participate with the Interdisciplinary Coordinating Committee for the Associate in Applied Science degree program in Electrical Engineering Technology. The Bachelor’s program in Computer Science is accredited by the Computer Science Accreditation Commission (CAC) of ABET.

Professor Shuqun Zhang is the coordinator of the Master’s degree program.

Department of Engineering Science and Physics
Building 1N
Neophytos (Neo) Antoniades, Chairperson and Professor

The department offers programs leading to the Bachelor’s degree in Electrical Engineering, Engineering Science, Physics, and Physics (7-12) and participates in the University Doctoral program in Physics, Engineering, Astrophysics, and Environmental Science. The Associate’s degree is offered in Engineering Science in Applied Science, and in Electrical Engineering Technology. Courses in astronomy, geology, and integrated science are offered by the department, and faculty in the department direct the programs and research at the As-
trophysical Observatory. The BS degree in Engineering Science is accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org. The AAS degree in Electrical Engineering Technology is accredited by the Technology Accreditation Commission of ABET, http://www.abet.org. The interdisciplinary Master’s degree program in Environmental Science is coordinated by Professor.

Department of Mathematics
Building 1S
John Verzani Chairperson and Professor
Distinguished Professor: Jay Rosen

The department offers the Bachelor of Science degree in Mathematics and the Bachelor of Science degree in Computer Science-Mathematics jointly with the Department of Computer Science. A minor in Mathematics is available for students with majors in other disciplines.
School of Business
The School of Business includes the following departments: Accounting and Finance, Economics, Management, and Marketing.

Department of Accounting and Finance
Building 3N
Laura Nowak, Chairperson and Professor

The department offers Associate, Bachelor, and Master-level degree programs. The Associate's degree is offered with options in Accounting, Finance. Graduates with an AAS degree may enter the job market directly or continue to study toward the bachelor's degree, and should consult an advisor and plan their programs accordingly. The Bachelor of Science degree is offered in Accounting, and in Business with concentrations in Finance. The Bachelor's degree program in Accounting prepares students for careers in accounting and advanced study toward the CPA examination. The Master's degree program in Accounting is coordinated by Assistant Professor John Sandler.

Department of Economics
Building 3N
Vasilios Petratos, Chairperson and Associate Professor
Associate Professors: Alexandru Voicu, Simone Wegge, Chu-Ping C. Vijverberg. Assistant Professors: Kristen Mammen, John Osakue, George Vachadze. Lecturer: Linda Coull.

The department offers Bachelor of Science degrees in Economics. In cooperation with the School of Business, a Business and Finance Concentrations are offered within the Bachelor's degree program in Economics.

Department of Management
Building 3N
Gordon DiPaolo, Chairperson and Associate Professor
Associate Professors: Deepa Aravind, Dorothy Lang. Assistant Professors: Heidi Bertels, Alexei Matveev.

The department offers Associate, Bachelor, and Master-level degree programs. The Associate's degree is offered with an option in Management. Graduates with an AAS degree may enter the job market directly or continue to study toward the bachelor's degree, and should consult an advisor and plan their programs accordingly. The Bachelor of Science degree is offered in Business with a concentration in Management. The Master's degree program in Business Management is coordinated by Assistant Professor Deepa Aravind.

Department of Marketing
Building 3N
Thomas Tellefsen, Chairperson and Professor
School of Education
The School of Education includes the following departments: Curriculum and Instruction, and Education Studies.

Department of Curriculum and Instruction
Building 3S
Margaret Berci, Chairperson and Associate Professor

The department provides initial preparation and undergraduate programs for teaching at the Early Childhood level and in elementary and secondary schools; graduate programs in Childhood Education, Adolescence Education, Special Education; and a Post-Master’s Advanced Certificate for Leadership in Education.

Department of Educational Studies
Building 3S
Eleni (Nelly) Tournaki, Chairperson and Professor

The department provides initial preparation and undergraduate programs for teaching at the Early Childhood level and in elementary and secondary schools; graduate programs in Childhood Education, Adolescence Education, Special Education; and a Post-Master’s Advanced Certificate for Leadership in Education.
School of Health Sciences
The School of Health Sciences includes the following departments: Nursing, Physical Therapy, and Social Work.

Department of Nursing
Marcus Hall SS
Arlene Farren, Chairperson and Associate Professor

The department offers the Associate's degree program that prepares students for the New York State Board of Nursing Examination for licensure as a Registered Nurse, an upper-division program leading to the Bachelor of Science degree in Nursing, and graduate programs including a Master of Science degree program in Adult-Gerontological health Nursing (Clinical Nurse Specialist in Nurse Practitioner), the Post Master's Advanced Certificate in Adult-Gerontological Health Nursing (Clinical Nurse Specialist or Nurse Practitioner), Advanced Certificates in Cultural Competence and Nursing Education. The Post Bachelor's Doctor of Nursing Practice (DNP) program for advanced practice nurses (Clinical Nurse Specialist or Nurse Practitioner), the clinical doctorate prepares nurses for the highest level of nursing practice, is a new addition to our degree programs. The Associate's degree, Bachelor's degree, and Master's degree programs are accredited by the National League for Nursing Accrediting Commission and all programs hold New York State Certification. Health Education courses fulfilling the Physical Education requirement are offered by this department. Professor June M. Como is coordinator for the Graduate and Doctor of Nursing Practice program and Professor Patricia Murray-Given is coordinator of the Nurse Practitioner program.

Department of Physical Therapy
Building 5N, Room 207
Zaghoul Ahmed, Chairperson and Professor

The College of Staten Island offers a clinical Doctoral program in Physical Therapy leading to the Doctorate in Physical Therapy (DPT). The DPT Program is accredited by the Commission of Accreditation in Physical Therapy Education (CAPTE).

Department of Social Work
Building 2A, Room 201
Christine Flynn Saulnier, Chairperson and Professor
Professor: Christine Flynn Saulnier. Associate Professor: Barbara Teater. Assistant Professor: Van-dana Chaudhry, Raquel Marta e Silva, Esther Son. Lecturers: Patti Gross, Kari Meyer.

The Social Work Programs at the College of Staten Island, The City University of New York are committed to excellence in teaching, service, and the creation and dissemination of knowledge. We draw upon social constructionism to inform and guide transformative social work practices. We strive to create an environment in which the human rights of all people are respected, diversity is embraced, and the values and ethics of the social work profession are upheld. We provide graduates with the knowledge, skills and values to dismantle oppression and injustice; foster human and community well-being; and create a world that is socially and economically just and equitable.

To achieve this mission, the College of Staten Island offers social work degrees at the undergraduate and graduate levels. The Bachelor of Science in Social Work (BSSW) degree prepares students for entry level generalist urban practice. The Bachelor of Science in Social Work (BSSW) degree prepares students for local and global context for understanding and addressing the experiences of people and societies that includes knowledge of cultural, economic, and political factors; and that fosters human and community well-being, with particular emphasis on matters of social and economic justice, and global interconnectedness. The Master of Social Work (MSW) degree prepares students for advanced urban transformative practice with people with disabilities (intellectual, physical, sensory, psychiatric, chronic health and other impairments). The MSW program educates social workers from a critical disabilities perspective to employ transformative social work practices with people with disabilities. Acknowledging our global interconnectedness, we strive to understand and address the experiences of diverse people and societies; foster human and community well-being; and, create a world that is socially and economically just and equitable.

Department of the Library
Library 1L
Wilma Jones, Associate Dean and Chief Librarian
Professors: James Kaser, Wilma Jones, Associate Professors: Rebecca Adler Schiff, Andrew Leykam, Amy Stemple, Judy Xiao. Assistant Professors: Jonathan Cope, Ewa Dzurak, Anne Hays, Mark Aaron Polger. Lecturer: Rachel Jirka. Higher Education Officer: Mark Lewental. Higher Education Assistant: Antonio Gallego. College Lab Technicians: Brian Farr, Stanley Zimmerman. The Library supports the entire range of academic programs at the College through its collections, periodical subscriptions, and microforms. Computer facilities for database searching provide access to City University and national catalogs. The Library’s own resources are supplemented by an array of modern networking arrangements at regional, state, and national levels. The Library is the center for the implementation of multimedia programs in pedagogy.
Division of Student and Enrollment Services
Division of Student and Enrollment Services
Building 1A, Room 301
Vice President, Jennifer S. Borrero, Esq.
718.982.2335

The Division of Student Affairs is concerned with all aspects of student life at the College and provides a comprehensive program of support services that includes orientation, counseling, career development, job placement, and the SEEK program. The Division coordinates student recruitment and admissions, student activities, services for disabled students, the CLUE program, pluralism and diversity programming, the scholarship and internship programs, health services, intercollegiate and intramural sports, and the Commencement exercises. Management of the Sports and Recreation Center, Campus Center, and the Center for the Arts are under the auspices of the Division. The Division of Student Affairs offers courses in Issues in College Life, Career Development, and Personal Growth and Development, and internships.

Campus Center
Building 1C
The Campus Center draws together all members of the College of the Staten Island community. It is a shared possession of the students, faculty, staff, alumni, and guests. While each of these groups is important, it is the students who are at the heart of what the Campus Center is about. The Campus Center is the focal point of extra- and co-curricular student life. It houses the Office of Student Life, the CSI Student Government, student clubs, student publications, the CSI Association Inc., and the Auxiliary Services Corporation. Such services as the Bookstore, Cafeteria, Park Café, the College Health Center, the Wellness Program, and the Peer Drop-in Center are located in the Campus Center. Lounges for entertainment and studying, a computer lab, a video game room, conference and meeting rooms, and locker rentals are available for student use. WSIA-FM (88.9) broadcasts from the Campus Center. Questions regarding use of facilities and locker rentals may be directed to the Campus Center, Room 201. The telephone number is 718.982.3071.

Center for Career and Professional Development
Building 1A, Room 105
The Center assists current students and graduates with their career, internship, and placement needs. Résumé critique and referral, mock interviews, on-campus employer recruitment, collegiate job fairs and the Senior Employment Referral Program help students to meet their employment goals.

Students seeking an internship can review a database of over 400 internship opportunities and can learn about the Summer Internship Stipend Program and internship referral program.

Assistance with the fellowship, scholarship, and special opportunity application process is provided as well as review of mission statements and personal essays that may be required for select fellowship and graduate school applications.

Career coaching is available to students who are unsure about their career choice. Career assessment testing for first year students is available through the Pathfinder Program, which is now administered by the Center for Advising and Academic Success.

Career-related workshops are given throughout the year and computers are available to students who want to access the database of full- and part-time jobs, internships, and fellowships.

Children’s Center
Building 2R
The Children’s Center is sponsored by the CSI Association and provides early education and childcare services for students who may be attending classes, working, participating in other school-related activities, or who need personal time. The programs for infants/toddlers and preschool children are licensed by the Bureau of Day Care of the NYC Department of Health and Mental Hygiene. The program for school-age children is registered with the School Age Division of the NYS Office of Children and Family Services. The Center is funded through the Student Activity Fee; city, state, and federal grant money; and parent fees. For further information please call 718.982.3190 or visit www.csi.cuny.edu/childcare.

Clubs and Organizations
The CSI Student Government and the Office of Student Life charter and recognize student clubs and organizations. Any group of students with a common interest may request a charter for a student club or organization from the Student Government Office, and students may join any of the existing groups that receive a charter each year. Members of clubs associate around a broad range of interests and identifications. Approximately 40 clubs are organized by students with common interests rising out of academic studies, social commitments, or personal values. Sports-related clubs file for a charter initially with Student Government before applying for funding from the Intramural and Recreation Program. The telephone number is 718.982.3088.

College of Staten Island Association, Inc.
The College of Staten Island Association, Inc. is a non-profit corporation that administers the Student Activity Fee. The Association is governed by a board of directors comprised of six students, three administrators, three faculty, and the President or designee. The Association allocates designated portions of the Fee, traditionally applied to graduation exercises, intercollegiate athletics and intramural programs, the Children’s Center, Health and Wellness, WSIA, and the Campus Activities Board.
Counseling Services
Building 1A, Room 109
The Counseling Center provides personal and academic counseling services for students at the College of Staten Island. Students are given the opportunity to explore issues that can help them to achieve success. Professionally trained counselors provide individual and group counseling to address various issues that affect academic performance and experiences in college and one's personal life. With a few legal exceptions, counseling is a confidential process. Personal counseling is designed to help students address concerns, come to a greater understanding of themselves, and develop effective strategies for dealing with life's challenges. Academic counseling assists students with maximizing their academic performance. Counselors help students with a variety of issues that affect academic success such as test anxiety, time management, study strategies, and concentration.

Center for Student Accessibility
Center for the Arts (1P)
The Center for Student Accessibility has responsibility for providing reasonable accommodations and services to students with a documented disability. The Center also serves as a resource for faculty and staff in their work with CSI students with disabilities. To qualify for services, students must submit documentation to the Center and request services. All documentation is kept confidential and should be submitted directly to the Center. Services include pre-admissions counseling and accessibility information, advisement, priority registration, and testing accommodations. Assistive technology software, scientific calculators, audio recorders, and assistance in facilitating the use of alternate formats are also available. The Resource Center for the Deaf serves the specific needs of deaf and hard of hearing students providing interpreters and CART services to students who are hard-of-hearing. Interpreters are available for academic advisement, conferences with professors, and other College business. The College’s policy for students with disabilities conforms to federal guidelines and the Center offers services mandated by federal and state law. All students with disabilities are encouraged to use the services of the Center. Services are also available to students who are temporarily disabled.

Email Accounts
The Office of Technology Systems will generate a College email/computer login account for all currently registered students. If you have any questions or forget your password after changing it, come to the Library (1L), Room 204. A validated student ID card is required. For more information, please call 718.982.4080, visit wwwcsi.cuny.edu/cix/index.php and click on the appropriate links, or visit wwwcsi.cuny.edu/currentstudents and select the link “Look up CSI’s email & Login ID to access CSI’s computers.”

Intercollegiate and Intramural Athletics
CSI fields women’s and men’s teams in competition throughout the East Coast, primarily in the New York/New Jersey metropolitan area. Team and individual sports include men’s and women’s cross-country, basketball, swimming, tennis, and soccer; men’s baseball; and women’s softball and volleyball. The College is a member of the National Collegiate Athletic Association (NCAA Division III), the Eastern College Athletic Conference (ECAC), and The City University of New York Athletic Conference (CUNYAC). The intercollegiate athletic program is supported by funding from the CSI Association.

To be eligible for intercollegiate competition, a student must be matriculated as a full-time student. The following criteria must also be met.

1. Proof of good health; physician's examination and review by CSI medical staff;
2. Good Academic Standing - Incoming students must meet the CSI Index for baccalaureate eligibility. For continuing student-athletes having acquired over 12 credits, good academic standing is defined as a minimum 2.0 cumulative Grade Point Average.
3. Maintenance of satisfactory progress toward completion of a bachelor's degree. For continuing student-athletes, this requires successful completion of a minimum of eight credits in the semester previous to the semester of competition in order to meet satisfactory progress requirements. For two-semester sports (Basketball, Swimming and Diving), this requires successful completion of a minimum of eight credits during each semester. Students completing less than eight credits in a required semester who can show good cause may appeal to the committee on student athlete appeals one time during their collegiate playing career.

The recreational and intramural sports program provides opportunities for all students, staff, and faculty to participate in individual and team sports, including competitive, non-competitive, and recreational.

Ombudsperson
Building 1A, Room 301
Reporting to the Vice President for Student and Enrollment Services, the Ombudsperson is authorized to investigate student concerns and to make recommendations regarding the outcome of those investigations. The Ombudsperson, available to all students enrolled at the College, is a source of information about College policies and procedures and, in certain situations, will provide mediation and advocacy services. Students may be advised to visit other College offices to file official student concerns as well.

The Ombudsperson helps students to develop positive strategies to resolve problems and conflicts and acts as a neutral party to hear any type of student concern or dispute related to the College.

The Office deals with academic matters such as grade appeals, accusations of cheating and plagiarism, facul-
ty/student disputes, and non-academic matters such as billing disagreements, conduct issues, campus issues, and interpersonal conflict. This is not a comprehensive list, as it is understood that each individual may have concerns and needs that are unique.

Students can file an official complaint or put information “on the record” at the Office of the Ombudsperson.

New Student Programs
Building 2A, Room 208
The New Student Programs Office maintains up-to-date records on students’ progress toward meeting the New Student Orientation Requirement as described in the Catalog section on Degree Requirements. Students may obtain information about current and planned CLUE-certified events, programs, and activities, and may also check on their status in meeting the requirement. Two enrichment programs called CLUE Challenge and CLUE Pathways encourage students to commit themselves to a broad involvement in the out-of-the-classroom life of the College and its surrounding community. Information about orientation and the CLUE program is available at the CLUE Office. The telephone number is 718.982.2529.

Pluralism and Diversity
Building 2A, Room 208
The Office of Pluralism and Diversity seeks to develop in all aspects of the College’s activities a climate that fosters respect for the pluralism and diversity of U.S. society. The Office offers programming, workshops, and training sessions on sensitivity and diversity. The telephone number is 718.982.3088.

Campus Activities Board (CAB)
The Campus Activities Board, a joint committee of the CSI Association and the CSI Student Government, is a student programming board that allocates a designated portion of the Student Activity Fee for social, cultural, and educational programs. The board develops programs that culturally enlighten, intellectually stimulate, and entertain. The planning and decision making process is one in which students learn many skills, especially those related to working with other students on campus-wide projects. Proposals for programs, events, and activities may be made by students and members of the College community. The telephone number is 718.982.3268.

Publications
Students at CSI publish a biweekly newspaper, The Banner; a political journal, The College Voice; a politics and literary arts magazine, Third Rail; an art and literature magazine, Serpentine/Artifacts; a literary journal, Caesura; and the Dolphin yearbook. Publications are funded by Student Activity Fees allocated through the Publication Board. Students interested in participating in the production of these publications as writers, photographers, editors, or layout artists, or in starting new publications are invited to visit the publications’ offices or the Office of Student Life in the Campus Center.

The Percy Ellis Sutton SEEK Program
Building 1A, Room 112
The Percy Ellis Sutton SEEK Program Director Gloria Garcia
The SEEK Program (Search for Education, Elevation, and Knowledge) is a New York State program for residents who are in need of both academic and financial assistance in order to obtain a college education. Information about the program and the application process may be obtained from the SEEK Office. The telephone number is 718.982.2410 or visit our Website: www.csi.cuny.edu/seek.

Sports and Recreation Center
Building 1R
The Sports and Recreation Center houses a full range of facilities and equipment for individual and team sports and games: a gymnasium with seating capacity for 1,200 spectators, an auxiliary gymnasium, two fitness rooms, racquetball courts, and a 25-meter pool. Outdoor facilities include a track, tennis courts, and ball fields.

Student Life
Campus Center (1C), Room 201
The Office of Student Life assists and advises students involved in student organizations, governance committees, and campus activities to develop a rich and diverse co-curricular campus life. The Student Life team also involves staff from the CSI Association, the Student Government, and the Campus Activities Board. The Office sponsors leadership programs for chartered clubs and the general student population and is responsible for the operations of the Campus Center. The telephone number is 718.982.3088.

Student Government
The College of Staten Island Student Government is composed of 20 representatives (senators) elected by the student body each spring semester. Organized into commissions with a specific mandate (e.g., Academic and Curricular Affairs; Clubs; Elections; Finance; Part-time, Evening, and Weekend Students; Student Center; and Student Services), the Student Government represents student interests to the administration and faculty of the College and serves as an advocate for student services. Through its commissions, the Student Government charters and funds all student clubs and associations, administers student elections, allocates a designated portion of the Student Activity Fee, advocates for the special needs of students, and advises the College on the utilization of Campus Center space to serve students in their co-curricular activities. Student Government senators serve on planning and decision making committees with faculty and members of the CSI administration. The telephone number is 718.982.3082.
Health Center and Wellness Program

Campus Center (1C), Room 111
Health and Wellness Services provides prevention and treatment services to enhance health and encourage healthy lifestyle decisions. In collaboration with Staten Island University Hospital, nurse practitioners provide episodic treatment for acute health problems, first aid, college related physicals, immunizations, and tuberculosis skin test (PPD). Rapid confidential HIV testing services, pregnancy testing, and blood pressure checks are also available. This office provides confidential health education appointments with professional staff, student-centered health information, educational outreach programs and a peer education program. Health promotion events include wellness fairs, blood drives, as well as special health-screening events. Services are partially funded by the Student Activity Fee. The telephone number is 718.982.3045.

WSIA - 88.9 FM

Campus Center (1C), Room 106
WSIA, the only radio station on Staten Island, is licensed to the College. The station is staffed by student volunteers working under the guidance of professional staff and broadcasts at 88.9 FM. The state-of-the-art studios, include a digital recording facility, music studio, computerized news operation, and a 40,000-volume record and CD collection. Station programming emphasizes diverse and creative music, local news and public affairs, and Staten Island sports. Students interested in working as DJs, newscasters, sportscasters, and engineers should visit the studio and fill out an application. The telephone number is 718.982.3050.
Office of Academic Affairs
Office of Academic Affairs
Building 1A, Room 305
Senior Vice President and Provost, Gary Reichard
718.982.2440
www.csi.cuny.edu/administration/academicaffairs/

As the College’s chief academic officer, the Provost provides vision, leadership, and oversight to the maintenance and development of quality academic programs including support for the development of a distinguished faculty in both the liberal arts and sciences and professional studies and support of faculty research and graduate education at the master’s and doctoral levels.

The Provost reports directly to the President and is the ranking member of the executive management team, with responsibility for all academic units and departments. The Provost is responsible for promoting academic excellence and for assuring that students have access to intellectual and practical experiences that will enrich their lives and prepare them for their post-collegiate careers.

Accelerated Study in Associate Programs (ASAP)
Email: asap@csi.cuny.edu

ASAP students at CSI are assisted in earning both their Associate and Baccalaureate Degrees in four years with financial, academic, and personal support. For more information please visit the ASAP website.

Adults Returning to College Program (ARC)
Office of Recruitment and Admissions, Building 2A, Room 103

The College offers a gateway program for first time and returning degree track adult students. The ARC (Adults Returning to the Classroom) program provides personalized, comprehensive support services from pre-admission counseling to registration. The goals of the ARC program is to facilitate a seamless transition for non-traditional students into the College.

Alumni Relations
Associate Director, Jennifer Lynch, Building 1A, Room 111

The Office of Alumni Relations maintains contact with alumni through ongoing social, educational, athletic, and cultural events.

The Office also assists the CSI Alumni Association and its elected Board of Directors, who serve as the representative voice for over 50,000 alumni worldwide. The Alumni Association was established in 1980 and its mission is dedicated to promoting a lifelong spirit of pride, fellowship, loyalty, and learning among alumni, students, and the community.

All persons who have a degree or six-year certificate from CSI or its predecessor institutions, Richmond College and Staten Island Community College, are members of the Alumni Association. Alumni seeking further information or wishing to obtain a permanent alumni photo ID are invited to call 718.982.2290, email alumni@mail.csi.cuny.edu or visit the Office.

Center for Advising and Academic Success (CAAS)
“Empowering Proactive Learning and Providing the Foundation for Lifelong Success”

Paulette Brower-Garrett, Director, Building (1A), Room 101

The Center for Advising and Academic Success (CAAS) is responsible for teaching the principles and philosophy of general education and its relevance in curricula. CAAS provides advisement support to new students, matriculated continuing students who have earned less than 45 credits and to students who are declared as Associate Degree Liberal Art majors. Committed to utilizing the most effective advisement practices in support of student academic success, it empowers students to proactively become involved in their own educational experience.

Here, while students find academic assistance with educational goal planning, major, minor, and career identification, general education requirements, DegreeWorks (the degree audit self-advisement tool), TAP eligibility and academic policies and regulations; faculty can find assistance with advisor training and development and evening & weekend services. Additionally, CAAS is responsible for administration of the Pathfinder Program, a career exploration workshop series designed to help students determine potential career pathways and related academic majors. Further information about advisement, Pathfinder, and other services can be found at www.csi.cuny.edu/academicadvisement.

All students assigned faculty or professional advisors are required to meet with an advisor minimally once each semester. The Early Advisement Period (each March and October) is designed to provide students with ample opportunity to discuss their educational plans and to complete their upcoming semester’s course selection process. Prior to the Priority Registration Period (each April and November), students receive notification of the priority registration access date. Students should meet with their advisor to complete their educational plans, have their Advisement Stop removed, and prepare to complete their registration process at least 3 weeks before their priority registration access date.

Center for the Arts
Center for the Arts 1P, Room 116
Director, John Jankowski
The Center for the Arts contains, in the instructional wing, the Department of Performing and Creative Arts, the Department of Media Culture, studios, performance and rehearsal spaces, a screening room, a studio theater, film and video production facilities, and laboratories for communications and graphics. The workshops include facilities for print making, painting, sculpture, photography, electronic music, and recording.

The Center for the Arts is home to the Clara and Arleigh B. Williamson Theatre, a 430-seat proscenium-stage theater; the 893-seat Concert Hall; the 150-seat Recital Hall; the 150-seat Lecture Hall; the 150-seat Lab Theatre for student productions; the CFA Atrium; the Conference Room; the Art Gallery, for major exhibitions; and the Student Art Gallery. Each academic year, the CFA presents a full schedule of innovative performing and visual arts public programming that features guest artists, CSI arts faculty, and CSI art students. The CFA also administers a theater rental program open to the Staten Island community.

**Center for Global Engagement**

Building 2A, Room 206  
Director, Stephen M. Ferst

The Center for Global Engagement encourages and supports the international component of the academic life of the College. The Center provides direction and assistance in matters affecting the College’s international student population, sponsors study abroad programs, directs scholar and student exchange programs, and facilitates international development programs. Guidance for the Center’s activities is provided by a faculty advisory committee.

**English Language Institute (ELI)**

Building 2A, Room 206  
Academic Coordinator, Gonzalo Villena

The Institute, a member of the American Association of Intensive English Programs, offers intensive English language study and programs in American language and culture to international students and professionals. The Institute is supported by course fees. Admission to the English Language Institute does not constitute admission to the College.

**Foreign Student and Scholar Services**

The staff, serving foreign students and scholars, processes immigration documentation; facilitates admission procedures; provides academic advisement, counseling, adjustment, and orientation to college life in the U.S.; and assists in off-campus housing.

**Study Abroad Programs**

The Center offers a variety of study abroad programs for undergraduate credit only with partner institutions around the world including the following: Nanjing University, Shanghai University, and the City University of Hong Kong in China; the Danish Institute for Study Abroad (DIS) in Copenhagen, Denmark; the Catholic University of Guayaquil and the University of San Francisco de Quito in Ecuador; Middlesex University in London, England; The American College of Thessaloniki in Greece; Scuola Lorenzo deMedici in Florence and Tuscania, The American University of Rome, and the Istituto Venezia in Italy; the Universidad Internacional Menéndez Pelayo in Santander, Spain; IPAG in Nice and Paris, France; Seinan Gakuin University in Fukuoka, Japan; and Dublin Institute of Technology in Ireland. Overseas study programs in more than 25 countries are open to CSI students through membership in the College Consortium for International Studies.

There is no foreign language prerequisite; however, students are required to study the language of the country and are placed in courses suitable to their ability. A minimum grade point average of 2.5 is required for participation in most of the CSI-sponsored study abroad programs. The staff provides assistance and information about admissions, financial aid, orientation, and re-entry. To prepare effectively for participation in the program, students are encouraged to investigate the overseas study opportunities early in their academic careers. Most student financial aid plans are applicable to study abroad programs and special scholarship funds are available for eligible students.

**International Faculty Activities**

The Center coordinates a faculty exchange program with Shanghai University in China on behalf of The City University. The Center also has responsibility for CSI exchange programs and faculty development activities and international projects in various countries. On-campus programs for faculty and students include the World on Wednesday lecture series, International Education Week Events, and special programs.

**Institutional Advancement and External Affairs**

Building 1A, Room 401  
Vice President for Institutional Advancement and External Affairs, Khatmeh Osseiran-Hanna

The Office of Institutional Advancement and External Affairs is responsible for advancing the mission of the College and developing financial support for the College from alumni, faculty and staff, the community, and private industry. The CSI Foundation, Inc. was established to provide leadership and volunteer assistance to the College in its fundraising programs.

**Collegiate Science and Technology Entry Program (CSTEP)**

The CSTEP program seeks to increase enrollment and graduation, among historically underrepresented students, in undergraduate and graduate programs leading to professional licensure or to careers in the fields of science, technology, and education at the College of Staten Island (CSI). Through exposure to research opportunities in technology, scientific research, and teaching, CSTEP students will begin to view themselves as professionals and will help to reshape the culture of these professional fields as they reach their desired career goals.

The CSTEP Program is designed for New York State residents, including permanent residents, who must be
full-time students and have good academic standing, which includes a 2.75 grade point average and enrollment in an approved scientific, technical, health-related, pre-professional, or professional undergraduate or graduate program of study. Students must be of African, Hispanic/Latino, or Native American/Alaskan Native descent or be economically disadvantaged (based on criteria established by New York State.) Students enrolled in State-funded opportunity programs (AMP, HEOP, EOP, SEEK, or College Discovery) are also eligible to participate in the CSTEP program.

CUNY Language Immersion Program
Building 1L, Room 204
Coordinator: Blerina Likollari
The CUNY Language Immersion Program (CLIP) is an intensive English language program for students who are non-native speakers of English and have been admitted to a CUNY college but have not passed the CUNY reading and/or writing assessment tests. CLIP offers students the opportunity to spend more time learning English in an academic environment before formally enrolling in or returning to college courses. CLIP provides a full-time immersion approach to English language study that does not draw upon a student’s financial aid allocation; students pay only a nominal fee for the program.

CUNY Black Male Initiative at CSI (BMI)
Building 1A, Room 310
Coordinator: Debra Evans-Greene
The College Success Initiative is the Black Male Initiative Program (BMI) at the College of Staten Island. This program was designed by The City University of New York (CUNY) to engage successful minority students in the recruitment and retention of other minority students, especially males, at the college and high school levels.

The College Success Initiative is open to all academically eligible students, faculty, and staff without regard to race, gender, national origin, or other characteristic. The program is a collaborative effort of parents, college faculty and staff, and high school principals and teachers, as well as members of the Staten Island community, to attain the same goals with our minority students.

Teacher Education Honors Academy
Director, Dr. Jane Coffee, Building 1S, Room 212
The goal of the Teacher Education Honors Academy is to educate undergraduate students who have a demonstrated talent in science and mathematics and who have a sincere desire to teach in the high schools or middle schools. Teacher Academy students have a choice of four majors: biology, chemistry, mathematics, or physics. They must complete all the requirements for their chosen major as well as the undergraduate sequence of education courses required for initial teacher certification. The Teacher Education Honors Academy students acquire hands-on experience in New York City public middle or high schools and this experience begins in the first semester in the Teacher Education Honors Academy program. Students in the Teacher Education Honors Academy are eligible for financial and academic assistance and for internships in middle and high schools.

Please see the section on academic requirements for Admissions to Teacher Education Honors Academy.

Evening, Weekend, and Summer Services
“Empowering Preactice Learning and Providing the Foundation for Lifelong Success”
Building 1A, Room 101
Evening & Weekend Services is a unit within the operation of the Center for Advising and Academic Success. It is the central administrative office of the College during evening and weekend hours and serves students, faculty, and staff by providing administrative and academic assistance; information about College programs, policies, and procedures; and other special services. Additionally, the Office advocates for those various evening and weekend student provisions and support services which are needed and during times which are convenient for this specialized population.

Center for Advising and Academic Success is an integral part of this operation. The College regularly schedules a wide choice of courses in the evening and on the weekend to accommodate those students in all of its degree programs who prefer to take classes at those times. Evening class sessions start at 6:30p.m or later; and both Saturday and Sunday morning and afternoon classes are available to help students with their course selection process. Over a period of time, evening and weekend students can fulfill general education requirements and complete degree requirements for a number of specific majors. Please check www.csi.cuny.edu/academicadvisement for our current schedule of operating hours.

Consistent with the college’s mission, it proudly supports the Adults Returning to the Classroom (ARC) Program. This program supports those adults who may be coming to college for the first time, or returning after a prolonged absence and offers personalized services from pre-admissions counseling through registration, and provides guidance and support as adult students make choices about their careers and education. Interested adults (those who are at least 25 years old) not yet admitted to the College should have an initial consultation with an admissions counselor: please call 718.982.2259 or send an e-mail to holly.block@csi.cuny.edu. Currently matriculated continuing students interested in this program should contact Thomas Brennan at 718.982.2155 or thomas.brennan@csi.cuny.edu.

Learning Communities
Learning Communities are composed of a minimum of two or more courses that are linked together through common topics, assignments, readings, or activities.
They offer students a more personalized environment and create supportive peer groups through common enrollments in the linked courses. In learning communities, students are able to apply skills learned to multiple contexts, which is necessary for success in college. Some learning communities also provide support services directly linked to the courses. Participation in learning communities has been shown to increase student retention rates and also overall academic success. The courses included in learning communities fulfill general education requirements. To be enrolled in the learning communities, students must register for all components. For more information, please contact Donna Scimeca at 718.982.3405.

Information Technology
Building 2A, Room 303
Vice President for Technology Systems, Michael Kress

The Office of Information Technology (OIT) advances and supports the use of information technology at the College. OIT administers 20 general purpose computer laboratories and over 30 specialized computing laboratories in conjunction with academic departments. Over 2,500 desktop computers are connected through a high-speed local area network running Windows XP or Windows 2000. This hardware configuration allows students, faculty, and staff full access to specialized software, the Internet, online library resources, and email.

Four open computer labs running Windows XP or Windows 2000 are equipped with the software that students need to do their assignments. Computer labs for students with disabilities include software like JAWS, Dragon, etc. as well as ADA-compliant furniture. In addition to the open labs, there are computers available in the lobbies of Building 1S, 2S, 3S, 4S, 5S, 1N, 2N, 3N, 4N, and 5N, and systems are also located in the Cybercafe and the Campus Center. These stations allow students to use the Internet.

"CSI unplugged," wireless access is via 802.1 b/g technology. The network can be accessed from any of the academic or administrative buildings. The College of Staten Island's Data network spans 19 buildings and provides access for all campus staff, faculty, and students, 24 hours a day, seven days a week. Wireless Hotspots are designed to expand service to users with laptops or PDAs equipped for wireless networking. With Hotspots, wireless computers have high-speed access to the Internet and College Web Services.

The OIT homepage is: www.csi.cuny.edu/technologysystems.

Office of Academic Support
Library (1L), Room 117
Director, Linda Sharib

The Office of Academic Support (OAS) offers a variety of programs to enhance the academic preparation of all CSI students. The Immersion Program provides intensive reading, writing, and mathematics workshops for students who have not passed one or more of the assessment tests. The Pre-Test Preparation workshops provide important CUNY Assessment Test preparation for students, enabling them to become familiar with the testing formats and to experience practice tests, thereby increasing their chances for success on the tests. Furthermore, OAS houses CSI's multi-disciplinary tutoring lab and also coordinates the ten campus tutoring centers.

Laboratories
Building 6S, home of the Department of Biology, the Department of Chemistry, the Center for Environmental Science, and the Center for Developmental Neuroscience and Developmental Disabilities, contains 74 state-of-the-art laboratories for study and research. The ten departmental buildings in the academic quadrangles house instructional, tutorial, and research laboratories, and personal computer classrooms.

Liberty Partnerships Program
The program is a collaborative effort of the College and the Staten Island Branch of the New York Urban League, the local school district, and community-based organizations and individuals that provides a broad range of educational, enrichment, and support services for high school students who are at risk of dropping out of school.

Library/Media Services
Library 1L, Room 109
Chief Librarian, Professor Wilma L. Jones

The Library is the focal point of the South Academic Quadrangle. The building, with its distinctive rotunda, is the home to five central services: a study center for the campus community; a broad collection of books and journals in the liberal arts and sciences; computer facilities, online services, and databases that serve as points-of-access to informational resources beyond the walls of the Library; an instructional facility for the teaching of information retrieval and information literacy; an Archives and Special Collections unit; and media distribution services in support of instruction.

One hundred and seventy-five computer workstations for student use are available throughout the building. The general reference area is located on the first floor, as is the faculty Center for Excellence in Learning Technology. The second floor leads to the elegant archives facility, the distance-learning center, the document center, the Library instruction facility, and the Media Services unit. The circulating book collection and the print journal holdings are housed on the third floor.

Hours of Service:
Monday–Friday 8:00am–midnight
Saturday 8:30am–9:00pm
Sunday noon–9:00pm

Hours of service during summer session, intersession, and holidays are posted at the Library entrance and on the Library homepage, www.library.csi.cuny.edu.
Borrowing Privileges: Students and faculty from CSI and other CUNY colleges must present current ID cards in order to borrow books. Students and faculty may obtain ID cards from the College Office of Public Safety. Overdue books, lost books, or unpaid fines may result in the suspension of borrowing privileges.

The Collection: The holdings include 245,000 bound volumes of books, 143 online databases (of which more than 50,000 are full text), 155,000 e-books, 215 print journal subscriptions, 53,000 e-journals, 3,500 films and videos, 5,000 sound recordings, and 1,300 linear feet of archival materials.

The Online Catalog: The CSI Library is a member of the CUNY-wide integrated library system. Access to CUNY+, the online union catalog portion of the system, is available throughout the campus as well as from offsite.

Reference librarians provide service at the General Reference Desk on the first floor at all times when the Library is open. The Library instruction service includes orientation tours, open workshops, presentations to classes by reference specialists in connection with specific course assignments, and the compilation of bibliographic aids.

Media Services
Library (1L), Room 201
Director: Mark Lewental

Media Services provides viewing and listening facilities and classroom services for its collections of videotapes, DVDs, slides, audiotapes, and recordings. The Media Distribution System provides access to the media collections via fiber-optic technology, connecting over 40 classrooms, laboratories, and conference rooms. Media Services operates the Videoconferencing Lab, a network of wireless laptops for use in the Library, and oversees the Center for Excellence in Learning Technology, which assists faculty in using technology to promote better learning.

Ombudsperson
Building 1A, Room 301

Reporting to the Vice President for Student Affairs, the Ombudsperson is authorized to investigate student concerns and to make recommendations regarding the outcome of those investigations. The Ombudsperson, available to all students enrolled at the College, is a source of information about College policies and procedures and, in certain situations, will provide mediation and advocacy services. Students may be advised to visit other College offices to file official student concerns as well.

The Ombudsperson helps students to develop positive strategies to resolve problems and conflicts and acts as a neutral party to hear any type of student concern or dispute related to the College.

The Office deals with academic matters such as grade appeals, accusations of cheating and plagiarism, faculty/student disputes, and non-academic matters such as billing disagreements, conduct issues, campus issues, and interpersonal conflict. This is not a comprehensive list, as it is understood that each individual may have concerns and needs that are unique.

Students can file an official complaint or put information “on the record” at the Office of the Ombudsperson.

The Pathfinder Program
Sponsored by the Center for Advising and Academic Success, The Pathfinder Program has been created to meet the unique needs of College of Staten Island students as they begin exploring majors and careers. This unique, three-part Career Exploration Workshop series allows students to discover those interests that will lead them towards a successful career. Our workshops will teach students about the career decision-making process, how to choose a major, and how to conduct relevant career research.

The final part of the Pathfinder Program provides students with the opportunity to make an appointment to meet with Career Coaches, who are specially trained advisors and counselors who can guide students toward making good career decisions. The Career Coaching program is the result of collaboration between the Career & Scholarship Center and the Center for Advising and Academic Success. Additional information about the program can be found at www.csi.cuny.edu/pathfinder.

Science and Technology Entry Program (STEP)

The STEP program at the College of Staten Island (CSI) focuses on helping students to build self-esteem and develop positive behaviors toward learning. A Saturday enrichment and academic program, STEP services students from Staten Island and Brooklyn in grades 7 through 12 who demonstrate a career interest in the fields of science, engineering, technology or education. Through the program, students come to CSI and engage in science, computer math, communication arts,
and PSAT and SAT prep with an interdisciplinary learning approach. The STEP program also encourages students to strive for good grades throughout their secondary school years so that they eventually have the experience to choose from a broader range of choices when pursuing a career.

Participation in the STEP program is free. The only cost is student commitment and parental involvement.

**Testing Services**
Building 1A, Room 104
Director, Alan Hoffner

The Testing Office tests in the following areas: the CUNY Assessment Tests in writing, reading, and mathematics; the departmental placement examination in Biology; the National League for Nursing (NLN) pre-admissions exam; and the test that enables students to earn college credits, the College Level Examination Program (CLEP).

**The Percy Ellis Sutton SEEK Program**
Building 1A, Room 112
The Percy Ellis Sutton SEEK Program Director Gloria Garcia

The SEEK Program (Search for Education, Elevation, and Knowledge) is a New York State program for residents who are in need of both academic and financial assistance in order to obtain a college education. Information about the program and the application process may be obtained from the SEEK Office. The telephone number is 718.982.2410 or visit our Website: www.csi.cuny.edu/seek.

**The Verrazano School**
Building 5N, Room 113
Director, Dr. Charles Liu
Coordinator, Cheryl Craddock

The Verrazano School at CSI is a competitive, highly selective program for undergraduates at the College of Staten Island. Established in 2007, The Verrazano School offers students the opportunity to be part of a dynamic, academically motivated learning community while enjoying the benefits of a comprehensive public institution within The City University of New York. Outstanding faculty, a wide range of academic disciplines, and extensive student services are some of the resources available through The Verrazano School.

Information about the program and admission requirements can be found online at www.csi.cuny.edu/verrazanoschool or contact 718.982.4171.

**The Bertha Harris Women’s Center**
Building 2N, Room 106
Coordinator, Associate Professor Ellen J. Goldner

The Bertha Harris Women’s Center promotes the education and personal growth of women students and the men who support their concerns. It encourages a confidential support network among students and faculty and serves as a conduit of information about counseling and other resources available to women both on campus and in the broader communities of Staten Island and New York City. The Bertha Harris Women’s Center raises awareness about issues important to women and encourages community service by CSI students at organizations that serve women on campus, on Staten Island, and in New York City. In response to needs and interests voiced by students each semester, The Women’s Center organizes student activities, panels, and speakers on a variety of topics and other events. Visit us in Building 2N, room 106 or on the Web at www.csi.cuny.edu/womenscenter.

**The Writing Center**
Building 2S, Room 216
Director, Robert Brandt

The Writing Center is under the supervision of the Department of English. The Center provides assistance to students who need to enhance their reading and writing skills. Instructors from any discipline may refer students to The Writing Center, or students themselves may choose to visit it and make appointments to work with tutors. Tutors do not edit papers or do homework assignments for students, but help them to work on the skills they need to develop. The Writing Center serves students for whom English is a first or second language.
Academic Policies

This chapter covers the College’s general academic policies and policies that govern the academic standards and requirements to maintain matriculated status and to qualify for a degree.

Grades

Grading Symbols and GPA Equivalents

The following grading symbols are used:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Identification</th>
<th>Quality Points per Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Excellent</td>
<td>4.0</td>
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<tr>
<td>A-</td>
<td></td>
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</tr>
<tr>
<td>B+</td>
<td>Good</td>
<td>3.3</td>
</tr>
<tr>
<td>B-</td>
<td></td>
<td>3.0</td>
</tr>
<tr>
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<td></td>
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</tr>
<tr>
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<td>D</td>
<td>Passing</td>
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<tr>
<td>F</td>
<td>Failing/unsuccessful completion of course</td>
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</tr>
<tr>
<td>P</td>
<td>Pass</td>
<td></td>
</tr>
<tr>
<td>W</td>
<td>Withdrawed with no penalty</td>
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</tr>
<tr>
<td>WA</td>
<td>Administrative Withdrawal</td>
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</tr>
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<td>WN</td>
<td>Non-Attendance, Unofficial Withdrawal (Fall 2008-Summer 2009) (counts as failure)</td>
<td>0.0</td>
</tr>
<tr>
<td>*WN</td>
<td>None-attendance</td>
<td></td>
</tr>
<tr>
<td>WU</td>
<td>Withdraw Unofficially (counts as failure)</td>
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</tr>
<tr>
<td>INC</td>
<td>Incomplete (temporary grade)</td>
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<tr>
<td>AUD</td>
<td>Auditor</td>
<td></td>
</tr>
<tr>
<td>Y</td>
<td>Year or Longer Course of Study (for thesis courses)</td>
<td></td>
</tr>
<tr>
<td>Z</td>
<td>No grade submitted by instructor</td>
<td></td>
</tr>
<tr>
<td>PEN</td>
<td>Grade Pending (administrative grade)</td>
<td></td>
</tr>
<tr>
<td>FIN</td>
<td>Failure (changed from Incomplete)</td>
<td>0.0</td>
</tr>
</tbody>
</table>

A brief explanation of the grades receiving no quality points follows:

F  No credit is received for a course in which the student is assigned a grade of F. If a student wishes to receive credit for the course, it must be repeated with a passing grade; however, the F remains on the transcript (see section on Repeating Courses).

P  Course requirements have been satisfied. This grade is used only for specially designated courses and for courses taken at another college for which a student receives advanced standing.

W  Students may withdraw without academic penalty from any course up to the end of the ninth week of the semester (see College calendar for date); a grade of W will be assigned. After that date, students may petition the instructor and the chairperson for permission to withdraw until the last day of classes. Consult the Office of the Registrar for the procedures to be followed when withdrawing from a course. If these procedures are not followed, students may receive a penalty grade of WU. In cases of illness, students may apply to the Health Center for a medical withdrawal. Under no circumstances will a W be assigned after the last day of classes without positive action by the Committee on Course and Standing or its designee.

WA  Students not in compliance with the New York State immunization requirement receive the grade of WA. This grade carries no academic penalty.

WN  Non-Attendance. No credit is received for a course in which this grade is assigned. This grade carries no academic penalty.

WU  An unofficial withdrawal results in a grade of WU. No credit is received for a course in which this grade is assigned; it is equivalent to a grade of F.

INC  The grade INC is a temporary grade assigned when, in the instructor’s judgment, course requirements are not completed for valid reasons. Recipients of INC are required to complete all assignments before the end of classes during the succeeding semester. Students should not register a second time for a course in which an INC is given. Rather, arrangements should be made with the instructor to complete the remaining work. If a student registers again for a course in which an INC was awarded, the INC will become a FIN and the course will appear a second time on the student’s transcript with the grade earned.

FIN  If a grade of INC is not changed before the last day of classes of the succeeding semester, it will automatically be changed to a grade of FIN. If the required work is not completed for continuing valid reasons, the course instructor may grant an extension. Such extensions shall not exceed a period of more than two years beyond the original due date of the uncompleted work.

AUD  Students may audit courses for which they are registered by presenting a written statement to the Registrar declaring their status as auditors within the first three weeks of the semester. This statement must be countersigned by the instructor of the course. No credit is received for an audited course.

PEN  Administrative grade

Y  The pending grade is used in the first semester of a two-semester course.

Z  An administrative grade assigned when no grade has been submitted by the instructor.

Pass/Fail Grading Option

Undergraduate matriculated students of the College of Staten Island have the option to elect a Pass/Fail grade with the following restrictions:

1. Students may not elect the pass/fail option for any courses satisfying general education, pre-major, major, minor, or certification requirements.

2. Academic departments may exclude additional courses and may prohibit pass/fail courses from being used as prerequisites for degree requirements.

3. Courses taken on permit at other institutions and independent study courses may not be taken on a pass/fail basis.

Credit Maximum: The student may not elect more than eight credits (8) total as Pass/Fail. The total number of P grades on a transcript may not exceed 90 credits. This includes all credits transferred from other institutions.

Grading and Grade Point Average: For courses taken as Pass/Fail, letter grades “A through C” are converted
to P; letter grades of D and F are converted to F. A pass “P” grade is not counted in the student’s grade point average. A fail “F” grade is counted in the student’s grade point average.

**Prerequisite Academic Standing:** A student must be matriculated, with sophomore, junior, or senior standing. Transfer students must have completed a minimum of 12 credits at the College of Staten Island. To elect this option, the student must have a GPA greater than or equal to 2.25.

**Deadlines:** Students must elect the pass/fail option each semester by the “last day to withdraw from course(s) without a grade of “W” as listed in the academic calendar for that semester. Students may not elect the pass/fail option retroactively. Once the election of pass/fail has been made, the student may no longer choose to receive a letter grade other than P/F for the course.

**Grade Appeals**

Students wishing to appeal a grade other than WU or FIN must do so within 60 school days following the end of the semester*. Appeals must be submitted in writing to the chairperson of the department in which the course was offered. Upon receipt of the appeal, the chairperson shall direct the student to discuss the issue with the instructor who assigned the grade. If the issue remains unresolved, the student may request a review by the Department Committee on Grade Appeals.

This Committee on Grade Appeals shall review all information presented by the student and shall meet with the instructor. The committee shall render a decision within 30 days after the student requested the grade review by the committee because the student and instructor had not resolved the matter. If the committee upholds the appeal by a vote of 3-0, the chairperson shall change the grade to reflect the decision of the committee. If the committee does not uphold the student, there is no further appeal within the College.

In all deliberations on grade appeals, the burden shall be on the student to prove that a violation of the College’s regulations occurred or that the instructor’s own stated criteria for grading, which shall have been enunciated at the beginning of the semester, have not been followed. Students needing advice on the procedure may consult an academic and personal counselor.

Students wishing to have a WU or a FIN grade changed to a grade of W must file a written petition supported by documentation to the Committee on Course and Standing.

*Summer and winter session months are not included in the 60 day appeal deadline.

**Grade Point Average (GPA)**

The grade point average (GPA) is determined by dividing the total quality points earned by the total number of credits attempted. All credits for which the student is officially registered after the change of program period of each semester shall be considered “attempted credits,” except where the grades carry no penalty (i.e., grades of W, WA, INC, AUD, and PEN). For example:

<table>
<thead>
<tr>
<th>Course</th>
<th>Grade</th>
<th>Credits</th>
<th>Quality Points per Credit</th>
<th>Total Quality Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 111</td>
<td>A</td>
<td>3</td>
<td>x 4</td>
<td>12</td>
</tr>
<tr>
<td>COR 100</td>
<td>B</td>
<td>4</td>
<td>x 3</td>
<td>12</td>
</tr>
<tr>
<td>ART 100</td>
<td>C</td>
<td>3</td>
<td>x 2</td>
<td>6</td>
</tr>
<tr>
<td>ANT 100</td>
<td>D</td>
<td>3</td>
<td>x 1</td>
<td>3</td>
</tr>
<tr>
<td>PED 190</td>
<td>F</td>
<td>1</td>
<td>x 0</td>
<td>0</td>
</tr>
</tbody>
</table>

Total Credits 14 Total Quality Points 33

\[
\begin{align*}
\text{GPA} &= \frac{\text{Total Quality Points}}{\text{Total Credits Attempted}} \\
&= \frac{33}{14} \\
&= 2.36
\end{align*}
\]

Students may calculate current and prospective grade point averages using the GPA Calculator.

**Transcripts and Grade Reports**

At the end of each semester, students earn grades that reflect academic work undertaken. Students may access their transcript records and review semester grades in CUNYfirst via the CUNY Portal (www.cuny.edu).

Students may request copies of their transcripts online at www.csi.cuny.edu/registrar/transcript.html (see Fee Schedule). To be official, transcripts must be signed and sealed by the Registrar.

**The Major**

**Declaration of Major**

Each matriculated student in the College is recorded in the Registrar’s Office as enrolled in a specific curriculum or major leading to a degree. Students are responsible
for informing the Registrar of their specific curriculum or major. Assignment of an academic advisor is based upon this official listing. All students who have completed 45 credits and have passed all three CUNY Assessment Tests who expect to receive a bachelor's degree from the College should declare a bachelor's degree major. Students who have completed fewer than 45 credits may also declare a bachelor's degree major provided they meet the following criteria: have passed or are exempt from the three CUNY Assessment Tests and have successfully completed 12 credits at or above the 100 level and have a GPA of 2.00 or above.

In addition, individual departments may modify this policy for entry into their curricula as follows:

1. The department may require a chairperson's approval before a student with fewer than 40 credits may choose a major in that department.
2. The department may require a GPA greater than 2.0 for entrance into its major.
3. The department may require minimum grades in specific courses before a student may choose a major in that department.
4. The department may require the submission of an application.

Change of Major
Students who wish to change their major should file a Declaration/Change of Major form with the Registrar's Office. Deadlines for changing your major for the current semester are posted in the academic calendar. This can be done online at www.csi.cuny.edu/registrar/registration/php4. There is no fee. Students applying for graduation need to make sure they are in their correct major at the time of application or it will delay their semester of graduation.

Credits toward the Major
All courses listed as major requirements, including courses that apply toward concentrations, specializations, or options, are counted toward completion of the minimum credits meeting requirements for the major. Credits for pre-major courses are not included.

GPA in the Major
The GPA in the major is calculated in the same manner as the overall GPA using only the courses that fulfill major requirements: all courses listed in the major requirements, including courses in concentrations, specializations, options, and all courses taken in the discipline other than those in the pre-major. Students are required to achieve at least a 2.0 GPA in their core or major requirements in order to earn an undergraduate degree. Some programs require a GPA higher than 2.0.

Second Major
Students who wish to declare a second major should file a Declaration/Change of Major form with the Registrar's Office. This can be done online at www.csi.cuny.edu/registrar/forms.php4. There is no fee.

Academic Standing
Credit Load
Students may attend full-time or part-time as either matriculated or non-degree students. They may attend day, evening, or weekend sessions in any combination. A full-time student is one registered for 12 or more equated credits in a semester; six must be degree credits (three in the case of first-time freshmen). Equated credits are generally the same as degree credits except for courses below the 100 level. In courses below the 100 level, equated credits are equivalent to the contact hours of the course.

Students with less than a 3.0 (B) average and/or fewer than 30 credits who wish to take more than 18 credits must request permission. The Registrar's Office, 2A, Room 110, will direct such students to the appropriate office. Students on academic warning or probation may not register for more than 14 credits per semester. In the summer sessions, they may not register for more than a total of nine credits (two courses plus PED 190).

Class or Standing
Class, or standing, as freshman, sophomore, junior, and senior is determined by the number of credits completed:

- Lower Freshman 0-14.9 credits completed
- Upper Freshman 15-29.9 credits completed
- Lower Sophomore 30-44.9 credits completed
- Upper Sophomore 45-59.9 credits completed
- Lower Junior 60-74.9 credits completed
- Upper Junior 75-89.9 credits completed
- Lower Senior 90-104.9 credits completed
- Upper Senior 105-120+ credits completed

Standing is sometimes listed as a course prerequisite.

Dean's List
A matriculated undergraduate student, full-time merits inclusion on the annual dean's list by: Attaining a GPA of 3.5 or above during the preceding academic year, provided at least 12 credits were earned in the fall semester and 12 credits were earned in the spring semester. Only credits earned at the College of Staten Island will enter the computation. Students who have received a grade of F, WN, WU, or INC during the period under consideration are not eligible.

Committee on Course and Standing
The Committee on Course and Standing is chaired by the Vice President for Academic Affairs or a designee; and its membership consists of the Registrar and one member of the faculty from each instructional department. In addition to reviewing student records, the Committee considers student appeals related to readmission, and graduation.

Students can petition the Committee through an appeals counselor in the Division of Student and Enrollment Services. The appeals counselors, whose names are available through the Registrar's Office, will advise the students in the preparation of their petition, which will then be referred to the Committee.

Minimum GPA
Students are expected to maintain a minimum GPA of 2.0 (C) throughout their academic careers at the College. Whenever a student's GPA falls below 2.0, the student's record will be reviewed by the Committee on
Course and Standing. Students must achieve a GPA of 2.0 in the courses in the core or major requirements; some majors require a higher minimum GPA.

### Academic Standards Policy
At the end of each semester, students must meet the following academic standards:

<table>
<thead>
<tr>
<th>Credits attempted</th>
<th>Minimum Grade Point Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-12</td>
<td>1.50</td>
</tr>
<tr>
<td>13-24</td>
<td>1.75</td>
</tr>
<tr>
<td>25-above</td>
<td>2.00</td>
</tr>
</tbody>
</table>

### Academic Warning
Students with 0 to 24 credits attempted will be placed on academic warning if they meet the academic standards (above) but fail to achieve a 2.00 grade point average.

### Academic Probation
Students will be placed on academic probation if their grade point average falls below the minimum grade point average for the number of credits attempted: 0-12 attempted credits, 1.50 grade point average; 13-24 attempted credits, 1.75 grade point average; 25 credits-above, 2.0 grade point average.

Students on academic probation who meet the College’s academic standards at the end of the probation semester will be removed from academic probation. Students on academic probation will not be dismissed but automatically continued on probation as long as they achieve a grade point average of 2.5 or better in both the fall and spring semesters immediately prior to dismissal or a grade point average of 2.75 in either of those semesters until they have reached the required minimum grade point average. Students who fail to achieve the minimum 2.5 grade point average for any semester while on probation will be dismissed.

Students on academic warning or academic probation may not register for more than 14 credits a semester. Summer session students may not register for more than a total of nine credits in the summer session (two courses plus PED 190).

### Academic Dismissal
Students who do not meet the academic standards outlined above at the end of the probation semester will be dismissed from the College.

### Readmission after Academic Dismissal
Students dismissed from the College for failure to meet the standards set forth in this policy may apply for readmission after a separation from the College of at least one fall or spring semester. Students who apply for readmission after this separation period will be dismissed as matriculated students. Students dismissed from the College for failure to meet academic standards at the end of the probation semester will be dismissed from the College.

### Testing
#### CUNY Assessment Tests
Each undergraduate student must successfully complete The City University of New York Assessment Tests in reading, writing, and mathematics unless exempted. All students, including transfer students, must take the tests before they may register for the first time as matriculated students.

Students are exempted from taking the CUNY Assessment Tests in reading and writing if their verbal score on the SAT is 480 or higher; if their verbal score on the ACT is 20 or higher; or if their score on the New York State Regents Examination in English is 75 or higher. Students are exempted from the Math CUNY Assessment Test if their mathematics score on the SAT is 500 or higher; if their mathematics score on the ACT is 21 or higher; or if their score on the New York State Regents Examination in Mathematics A or Sequential II or III is 75 or higher; or by scoring 80 or higher on any of the new Regents examinations (Integrated Algebra, Geometry, Algebra 2 and Trigonometry) and successfully completing Algebra 2 and Trigonometry or a higher level course. However, all students must take Part III of the COMPASS Mathematics Test for placement into appropriate mathematics courses.

External, non-CUNY transfer students who have completed a course in English composition of 3 credits or more with a minimum grade of C at another institution are exempted from the CUNY Assessment Test in reading and the CUNY Assessment Test in writing provided that the students are transferring from United States-accredited colleges or universities. External transfer students who have completed a mathematics course of at least 3 credits with a minimum grade of C are exempt from CUNY Assessment Test in mathematics. However, all transfer students must take Part III of the COMPASS Mathematics Test for placement purposes. External transfer students with foreign credentials are subject to the CUNY Assessment Tests upon entry.

Students admitted to associate’s degree programs who fail one or more of the tests are expected to complete the remedial courses that qualify them to enter college-level writing and mathematics courses and pass all three CUNY Assessment Tests in one year, which may include, in addition to semesters, a pre-freshman and a post-freshman summer immersion course and a winter intersession workshop. Students for whom English is a second language (ESL students) have two academic years to pass the CUNY Assessment Tests in reading and writing. The tests are administered at the end of every academic intervention that students complete (remedial or ESL courses, summer immersion, January intersession, or tutorial workshops). Students who do not pass the CUNY Assessment Tests within this time limit will be dismissed from the College.

Students may not enroll in college-level English or mathematics courses until the appropriate test has been passed. In addition, some courses require passage of one or more of the tests as prerequisites. A passing score on the CUNY Assessment Test in Reading is a prerequisite to all courses at the 200 level or higher.

All students required to take Part I and Part II of the COMPASS Mathematics Test and who fail both Part I
and Part II must complete a pre-freshman math immersion course.

No associate’s or bachelor’s degree will be awarded unless proficiency has been demonstrated.

**COMPASS Reading Test**

Students who fail the COMPASS Reading Test on entrance are required to take the appropriate 0-level reading course in their first semester.

**CUNY ACT/Writing Sample**

Students who score 6 on the CUNY/ACT Writing Sample Test on entrance are required to take the appropriate 0-level writing course within their first 12 equated credits. Students who score 5 or below on the C/AWST on entrance are required to take the appropriate 0-level writing course within their first eight equated credits.

**COMPASS Mathematics Test**

Students who have not passed each of the first two parts of the COMPASS Mathematics Test are required to take the appropriate 0-level mathematics course.

All students required to take Part I and Part II of the COMPASS Mathematics Test and who fail both Part I and Part II must complete a pre-freshman math immersion course.

**Placement Examinations**

Placement examinations are offered by the Department of Biology and the Department of World Languages and Literatures. These examinations determine placement at the appropriate course level. Students entering the Health Sciences programs in which BIO 150 Human Anatomy and Physiology I is a pre-major requirement must take the Biology Department Placement Examination. Students are referred to the Testing Office for information.

See the section on Attendance Policies for information on the special attendance policies that apply to 0-level courses.

**Graduation**

**Application for Graduation**

In order to be considered for graduation, students must file an application with the Registrar. The deadlines to apply for graduation are March 1 for the spring and the summer term and October 1 for the fall term. There is no fee for this application. Students may apply online from the College’s Website at [www.csi.cuny.edu/registrar/graduation](http://www.csi.cuny.edu/registrar/graduation) or they may apply in person at Enrollment Services located in Building 2A, Room 106. Students must have completed a minimum of 34 credits to apply for an associate’s degree; 94 credits must be completed to apply for a baccalaureate degree. Bachelor’s degree candidates who have completed a second major or a minor and wish it to appear on their transcript should list the second major or minor on their application for graduation.

Students who have graduated but wish to take additional credits beyond the degree will be changed to the non-degree status and will be charged the higher non-degree rate per credit unless they have filed for a second degree prior to the first day of classes. A change from non-degree to degree status on or after the first day of classes will not take effect until the next semester for tuition billing purposes. Non-degree students are not entitled to state or federal financial aid including federal loans.

**Requirements for Graduation**

Bachelor’s degree programs require a minimum of 120 credits with a minimum cumulative grade point average of 2.0 (C). Some Bachelor’s degree programs require more than the minimum credits and GPA; please consult the specific degree program for details. Associate’s degree programs require a minimum of 60 credits with a minimum grade point average of 2.0 (C). Some Associate’s degree programs require more than the minimum credits and GPA; please consult the specific degree program for details. All degree programs require at least a 2.0 grade point average in the core or major course requirements to qualify for the degree. Some majors require a grade point average above 2.0. Please consult the specific degree program. If a student earns an INC in the semester that they expect to graduate, regardless of whether the INC course is needed for graduation, he/she may not graduate. The student may postpone the graduation to the next semester at which time a final grade must be received by the last day of classes for that semester, otherwise the grade will be changed to an FIN and will negatively affect the graduating GPA as well as cumulative GPA. If the student does not wish to postpone the graduating semester, a grade for the INC must be submitted by the conferral date. Once a student has been granted a degree, grade changes for courses taken in semesters prior to receiving the degree are not permitted. The successful completion of all general education and core or major requirements is required for graduation. All students must pass the three CUNY Assessment Tests.

**Minimum Credits in Residence Requirement**

To obtain a degree, associate’s or baccalaureate, from the College of Staten Island, students must earn a minimum of 30 credits through courses taken at the College. To qualify for a bachelor’s degree from the College, students must also earn at least half (50%) of the credits required for the major through courses taken at the College. To obtain a One-Year Certificate from the College of Staten Island, at least half (50%) of the required credits must be earned in courses taken at the College.

**Graduation with Honors**

Undergraduates who meet the qualifications will receive the associate’s or bachelor’s degree summa cum laude, magna cum laude, or cum laude as follows:

- Cumulative GPA of at least 3.90: summa cum laude
- Cumulative GPA of at least 3.75: magna cum laude
- Cumulative GPA of at least 3.50: cum laude.

Students who have completed all of the requirements for the bachelor’s degree may graduate with honors in their major provided they meet the requirements of the department as explained in the section on Degree Requirements.
Second Degree Requirements
To receive a second baccalaureate degree or a second associate’s degree from the College of Staten Island, students must complete a minimum of 30 credits in addition to the number of credits required for the first degree.

The “Grandfather” Clause
Requirements in this Catalog were approved effective summer/fall 2012.

For Major and Minor Requirements, the “Grandfather” clause provides protection from changes in degree requirements for students who maintain continuous enrollment in a program, curriculum, major, or minor.

However, when a student chooses a new program, curriculum, major, or minor, the student must satisfy the degree requirements for the program, curriculum, major, or minor in which he/she enrolled that are in effect in the semester in which the change was effective. Additionally, if a student does not attend the College for four consecutive fall and spring semesters, the student must satisfy the degree requirements in effect in the semester of their readmission.

For general education requirements only, the “Grandfather” clause provides that for ten years after the initial date of matriculation in which a student received a grade for at least one credit, a student may follow the general education requirements in effect the year of that initial matriculation. Students who do not have a break in attendance of more than four consecutive fall and spring semesters may continue to follow the general education requirements in effect the year of the initial matriculation even if that is more than ten years ago.

However, students who do not attend the College for four consecutive fall and spring semesters and who matriculated and received a grade for at least one credit more than ten years before the semester of readmission must follow the general education requirements in effect the semester of readmission.

Students may choose to follow the set of requirements for either general education or for their program, curriculum, major, or minor in effect at the time of their graduation by requesting to do so in writing to the Registrar.

General Policies
Attendance Policies
The College has different attendance policies for regular courses and for remedial courses.

Regular Courses: A student who is absent for more than 15 percent of the class hours in the semester will be assigned a grade of WU (withdrew unofficially), subject to the discretion of the instructor. Fifteen percent equals eight hours for a course that meets four hours a week, six hours for a course that meets three hours a week. A student who does not attend a course at all will be assigned a grade of WN (never attended).

Remedial Courses: (all remedial courses in reading, writing, mathematics, and in English as a Second Language): A student who is absent seven or more hours (in a course meeting four hours a week) will receive a grade of WU (withdrew unofficially), unless excused by the instructor. A student who is absent four or more hours (in a course meeting three hours a week) will receive a grade of WU (withdrew unofficially), unless excused by the instructor. A student who does not attend a course at all will be assigned a grade of WN (never attended).

Both policies give instructors discretion to permit fewer or more absences. Some instructors enforce strict attendance policies; others are more liberal, believing that the consequences of frequent absences are low grades. Instructors will include their attendance policies in their syllabi and explain these policies at the beginning of the course.

Withdrawal from College and Leave of Absence
Students who leave the College before the end of a term must file an official withdrawal request. Failure to do so will result in WU grades for all courses in progress, and the result will be a negative impact on the grade point average. Students intending to withdraw from the College must see a counselor and complete the required forms. There is no fee. Registration materials for the semester following withdrawal will be sent automatically. There is no formal leave of absence from the College for undergraduates.

Readmission
Undergraduate students who do not register for a semester and then decide to return must file an application for readmission to qualify for a priority registration appointment. Generally, readmission is routine. Students requesting a change in curriculum or major may be subject to a review of qualifications. Additionally, if a student does not attend the College for four consecutive fall and spring semesters, the student must satisfy the degree requirements in effect in the semester of their readmission. Students who have been academically dismissed by the College will be readmitted only upon successful appeal to the Committee on Course and Standing. Applications may be filed online at www.csi.cuny.edu/registrar/forms.php4.

Repeating Courses
Remedial courses: Students may repeat a given remedial course only once.

Passing Grade: Students who receive a passing grade in a course (D or better) sometimes wish to repeat the course in the expectation of improving the grade. If a course is repeated, both grades will remain on the student’s transcript and both grades will be computed in the student’s grade point average, but the student will receive credit only once for the course. For example: a student takes HST 100 for three credits and receives a D, then repeats the course and receives a B. The transcript will list HST 100 with the grade of D for the first time and with a grade of B for the second. The student will receive a total of three credits for HST 100, not six, but the three credits of D and the three credits of B will be calculated in the student’s grade point average. The repeated course may not count toward the 12 credits required for full-time and TAP status unless the Catalog states that the course must be repeated.
Failing Grade: An undergraduate student may repeat up to 16 credits of failed courses; if the subsequent grade is C or higher, this subsequent grade will be included in the calculation of the cumulative GPA. The failing grade(s) will not be included (although the course and the grade remain on the record). The cumulative GPA will be used in determining if College admissions, progress, and graduation standards have been satisfied. F grades will be used in calculating the GPA for graduation honors and may affect the determination of admission to specific programs and progress in specific majors. If the subsequent grade is a D, both the original F and the subsequent D will be included in the GPA calculation.

This policy is subject to the following limitations:

a. The course in which the failing grade was received must have been originally taken after September 1, 1984 and repeated after September 1, 2002. Courses repeated between September 1, 1990 and August 31, 2002 will be governed by the policy in the 2001-2002 Catalog.

b. No more than 16 credits of failing grades may be re-calculated in the above manner.

c. The 16-credit limit applies cumulatively to courses taken in all CUNY colleges.

d. If two or more failing grades have been received for the same course and a grade of C or better is subsequently earned, all of the failing grades may be re-calculated, subject to the 16-credit limit.

e. The repeated course must be taken at the same college as the initially failed course.

f. The failing grades remain on the academic record.

g. The regulation applies to undergraduates only.

Auditing a Course

A student may audit a course by registering for the course and presenting a written statement of intent to audit the course, signed by the instructor, to the Registrar within the first three weeks of class. The Registrar will record a final grade of AUD, effective at the end of the semester. Once the declaration to audit has been made, the student may no longer choose to receive credit for the course. The regular tuition and fee schedule applies to audited courses.

Undergraduate Students in Graduate Courses

Undergraduate students with 90 or more credits and a 3.0 GPA may be granted permission to register for a graduate course for undergraduate credit. Permission is required from the course instructor and the coordinator of the graduate program offering the course; and must be noted on the registration form.

Permission to Take Courses at Other Colleges

Students wishing to take a course at another college must receive permission in advance if the course is to be credited toward a degree at the College of Staten Island. Permission to take courses at other colleges is granted only to currently enrolled matriculated students. Applications for permit, which require the approval of the department chairperson and the Registrar, are available in the Registrar’s Office. Tuition for courses taken on permit at other CUNY colleges must be paid at the College of Staten Island during the regular registration period. The Bursar’s receipt for this registration, together with the approved permit form, will enable students to register at another CUNY college. Tuition and fees for a course taken on permit at a non-CUNY school must be paid directly to the host school. Courses taken on permit will be transferred to CSI with the grade assigned by the host college.

Students on permit must request that a transcript be sent from the host college to the Registrar at the College of Staten Island. A student who registers for permit courses but who is unable to complete the course registration at the host college should officially withdraw from the permit course(s) promptly. The University refund schedule applies to dropping permit credits unless the student presents a letter from the host college that the student was unable to register for the permit courses.

Independent Study, Internships, and Experiential Learning

Current matriculated students may arrange independent study and internships in most of the fields of study in the College’s curriculum. To arrange for such courses, students must take the initiative in approaching faculty sponsors and in defining the project. Independent study and internship forms are available in the Registrar’s Office. Independent Study undergraduate courses are numbered 591-594 and Internships are numbered 595-598. Both are awarded one to four credits.

The following definitions and policies apply:

Independent Study (numbered 591-594 in the discipline)

Independent Study is defined as an individual library or laboratory research or creative arts project under the direct supervision of a full-time faculty member. All Independent Study courses will be designated as liberal arts and sciences courses.

Internships (numbered 595-598 in the discipline)

Internships are experiences in a work situation that integrate an academic area of study with work experience. Courses designated Internships are individual, non-classroom, extended learning projects. They require an onsite supervisor as well as a full-time faculty member as project sponsor. Internships require a daily log of activities, an assigned reading list or preparation of a relevant bibliography, and a final paper that summarizes the way in which goals were achieved and demonstrates the relationship of academic material to the work done during the internship.

Internship courses are considered non-liberal arts and sciences. Internship students may not receive credit for paid employment unless they demonstrate the relationship of an appropriate body of academic material to the work required in their employment. The policy on individual internship projects does not govern the regularly established professional internships (e.g., medical technology, communications).

Internships in professional programs may have different limits and requirements.
Policies on Independent Study and Internships

1. Credit for Independent Study is awarded for study or research outside normal course offerings; credit for Internships is awarded for work experience related to an academic program, not for performing a job.

2. Students must have at least one introductory course or equivalent experience in an area as a prerequisite to Independent Study and Internships. Independent Study students are required to spend at least three hours of work per week per credit. Internship students are expected to spend at least two hours per week per credit at the on-site location and at least one additional hour per week per credit in reading, study, and preparation.

3. No more than four credits will be granted for an Independent Study or Internship. Credit will be granted only once for the same or a similar work situation or placement. No more than nine credits of Independent Study and Internship coursework will be accepted toward the 60+ credits required for the associate's degree; no more than 15 credits of Independent Study and Internship coursework will be accepted toward the 120+ credits for the baccalaureate degree. The nine-and 15-credit limits are the maximum for the combined number of Independent Study and Internship credits. Enrollment in more than four credits of coursework in Independent Study and an Internship in any given semester is not encouraged; permission will be granted only in unusual circumstances. Internships in professional programs may have different limits and requirements.

4. Students interested in Independent Study or an Internship must make arrangements with a full-time faculty member to sponsor the project. Internship students also require an onsite supervisor to evaluate their project. The individuals involved will sign a contract stipulating the expectations for completion of the course, evaluation criteria, and awarding of credit.

5. Arrangements for Independent Study and Internships must be made during the semester before the student wishes to enroll in these courses and must be approved by the faculty sponsor, onsite supervisor (where applicable), and the chairperson of the department or coordinator of the program.

6. For Internships, at least one onsite visit must be made by the faculty sponsor during the semester. At this time a joint conference with all participants in the project will be held for evaluation. For all Independent Study and Internship students a meeting and an evaluation of progress with the faculty sponsor is expected at least bimonthly. Internships in professional programs may have different limits and requirements.

7. Independent Study and Internship proposals are kept on file in the Registrar's Office. Registration for Independent Study and Internship courses must be completed within the first three weeks of the semester.

8. Independent Study and Internship courses may not be used to satisfy general education requirements for any degree program. Independent Study and Internship courses may be used as electives in fulfillment of core or major requirements only if the application explicitly states that the course may so be used.

Experiential Learning

Matriculated students who have completed 15 credits may receive a maximum of 15 credits for experiential learning. This learning must be at college level; it may match the content of specific courses or not. Credit is awarded by the appropriate department after detailed assessment of the documentation provided by the student to that department. Further information is available at the Office of Registrar, Building 2A, Room 110.

Credit-by-Examination

External Agencies:

The College will grant matriculated students a maximum of 30 credits on the basis of, among others, the following: Advanced Placement Courses (AP), Regents College Examinations, American College Testing Proficiency (ACT-PEP), and College Level Examination Programs (CLEP).

The College grants credit for designated CLEP General Examinations. For CLEP introductory subject exams with separate essay test, the College requires that students take both the multiple-choice objective test and the separate essay test. Award of credit is based on performance on both parts of the subject exam. In order to receive credit, students must pass the subject examinations with a scaled score in at least the 50th percentile and minimally equivalent to a passing grade of C.

Academic departments or programs may authorize the assignment of specific course equivalents for credit-by-examination through outside agencies. Otherwise, such credits will be acceptable only as elective credits. Credits granted by examination through outside agencies will appear on student records appropriately identified by type of exam, subject, number of credits, and P (passing) grade. No credit will be awarded for a subject area examination in which the student has already taken an equivalent college course or completed a higher-level, more advanced college course. Based on faculty review and recommendations, the Office of Recruitment and Admissions monitors and coordinates the awarding of credit by examinations taken through outside agencies and the implementation of uniform College policy on credit-by-examination.

Departmental Challenge Examinations

At the discretion of academic departments or programs, students may take departmental challenge examinations to demonstrate college-level competency in courses that have not been taken at CSI (or at any other college), and for which no credit has already been received.

Academic Integrity, Plagiarism, and Cheating

Integrity is fundamental to the academic enterprise. It is violated by such acts as borrowing or purchasing assignments (including but not limited to term papers, essays, and reports) and other written assignments, using
concealed notes or crib sheets during examinations, copying the work of others and submitting it as one's own, and misappropriating the knowledge of others. The sources from which one derives one's ideas, statements, terms, and data, including Internet sources, must be fully and specifically acknowledged in the appropriate form; failure to do so, intentionally or unintentionally, constitutes plagiarism.

Violations of academic integrity may result in a lower grade or failure in a course and in disciplinary actions with penalties such as suspension or dismissal from the College. More information on the CUNY policies on Academic Integrity can be found in Appendix iii.

**Academic Freedom**
The City University subscribes to the American Association of University Professors 1940 Statement of Principles on Academic Freedom, and the College of Staten Island respects academic freedom for faculty and students as well as freedom in their personal lives for all individuals in the campus community.

**Undergraduate Degree & Certificate Programs**
For Graduate Degree Programs and Advanced Certificate Programs please refer to the Graduate Catalog. Accounting (BS)
African and African Diaspora Studies (BA)
American Studies (BA)
Art (BA), (BFA)
Biochemistry (BS)
Biology (BS)
Biology 7-12 (BS)
Business (AAS), (BS)
Chemistry (BS)
Chemistry (7-12) (BS)
Cinema Studies (BA)
Communications (BS)
Computer Science (BS)
Computer Science/Mathematics (BS)
Computer Technology (AAS)
Drama (BS)
Earth Science (7-12) (BS)
Earth and Environmental Science (BS)
Economics (BA), (BS)
Electrical Engineering (BS)
Electrical Engineering Technology (AAS)*
Engineering Science (AS), (BS)
English (BA)
English (7-12) (BA)
Geography (BA)
History (BA)
History (7-12) (BA)
Italian Studies (BA)
Italian Studies (7-12) (BA)
Information Systems and Informatics (BS)
International Studies (BA)
Liberal Arts and Sciences (AA), (AS)
Mathematics (BS)
Mathematics (7-12) (BS)
Mathematics/Computer Science (BS)
Medical Technology (BS)
Music (BA), (BS)
Nursing (AAS), (BS)
Philosophy (BA)
Philosophy and Political Science (BA)
Physics (BS)
Physics (7-12) (BS)
Political Science (BA)
Psychology (BA), (BS)
Science, Letters, and Society (BA)
Science, Letters, and Society: Early Childhood (Birth-2) (BA)
Science, Letters, and Society: Childhood (1-6) (BA)
Social Work (BS)
Sociology/Anthropology (BA)
Spanish (BA)
Spanish (7-12) (BA)
Women's, Gender, and Sexuality Studies (BA)

*Admission to the program has been suspended.

**New York State Registration**
The following listing gives the title of each of the undergraduate degree programs of the College and the Program Code number under which that program is registered with the New York State Department of Education, Office of Higher Education and the Professions, Cultural Education Center, Room 5B28, Albany, NY 12230; 1.528.474.5851.

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*Admission is suspended to this program.

The City University of New York reserves the right, because of changing conditions, to make modifications of any nature in the academic programs and requirements of the University and its constituent colleges without advance notice.
Degree Requirements

This section provides detailed information on college preparation, testing, orientation, requirements applicable to all degree programs, liberal arts and sciences, core/major, minor, honors, general education, and information about the course numbering system at CSI.

College Preparatory Initiative (CPI)

The College Preparatory Initiative (CPI) is a collaborative effort between CUNY and the New York City Board of Education designed to strengthen the academic preparation of high school students.

Bachelor's degree students and associate's degree students entering CSI are expected to have a minimum of 16 CPI units, including four units of English, three units of mathematics, two units of laboratory science, four units of social sciences, two units of foreign language, and one unit of fine arts.

Core/Major Requirements

Programs leading to a degree (with the exception of the AA and AS degrees in Liberal Arts and Sciences) require a concentrated study of a particular subject. This requirement is called the core requirement for associate's degrees and the major requirement for bachelor's degrees. The core and major requirements for each degree are listed under the degree.

Some cores and majors require courses that must be taken during the freshman and sophomore years to provide the background necessary for the required core or major courses. These courses are identified as pre-major and listed under the degree description.

Course Numbering

ALPHA Designation

The section on Programs and Course Descriptions lists the requirements and courses for the degree programs in alphabetical order by the ALPHA designation for the courses in the discipline, from ACC for Accounting to WGS for Women's, Gender, and Sexuality Studies. The description of core or major requirements is followed by the course descriptions in numerical order from 001-to 400-level courses.

500-Level Courses

Topics courses, independent study, and individual internships are designated at the 500 level with the alpha symbol for the discipline. Courses at the 500 level, by their very nature, have no registered description and are not listed under course descriptions for the disciplines. Topics courses may be taught for a maximum of three semesters and may not be used to fulfill requirements. The designations are topics courses: 500-590 (1 - 4 credits); independent study courses, 591-594 (1 - 4 credits); internships, 595-598 (1 - 4 credits).

Credit Requirements

With some exceptions, baccalaureate degree programs require the successful completion of 120 credits and associate's degree programs require the successful completion of 60 credits. Exceptions are the following programs: Bachelor of Science (BS): Biology, Computer Science, Engineering Science, Medical Technology; Associate in Applied Science (AAS): Computer Technology, Electrical Engineering Technology, Nursing.

CUNY Assessment Tests

ENGLISH: Each student must be exempt or successfully complete The City University of New York Skills Assessment Tests in reading and writing.

MATHEMATICS: Each student must be exempt or successfully complete The City University of New York Skills Assessment Test in mathematics, which tests proficiency in basic mathematics skills. (Please refer to Testing for additional information.)

Students needing remediation are expected to complete the remedial courses that qualify them to enter college-level writing and mathematics courses in one year, which may include, in addition to two semesters, a pre-freshman and a post-freshman summer immersion course and a winter intersession workshop.

Double Majors/Double Degrees

For students who wish to major in more than one field of study, complete a double major, or to earn two degrees (double degrees), the following policies apply:

To major in more than one field of study, students must complete all of the core or major requirements for each of the fields. If the Pathways General Education requirements of the two fields differ, the student must complete the more restrictive and demanding of the two. If the total credits required differ, the student must complete the larger number. To have the second core or major recorded on the final transcript the student must apply for both fields when filing for graduation. Upon satisfactory completion of the requirements, both fields of study will be recorded on the final transcript.

To receive a second degree of the same type, for example History (BA) and Spanish (BA), it is necessary to complete the requirements of the second field of study and to complete at least 30 credits more in residence than the number of credits required to complete the first degree. If a student chooses to major in two disciplines offering different types of degree, for example History (BA) and Biology (BS), the student must earn two degrees by earning a minimum of 30 credits in residence above the credits required for the first degree.

Electives

Each associate’s and bachelor’s degree program requires a specified total number of credits. Credits not counted toward general education, pre-major, or core/major requirements are electives. Students may freely choose their elective courses from among the courses offered at the College. However, students...
should keep in mind the liberal arts and sciences requirement; in some programs it may be necessary to choose as electives only those courses that are designated as liberal arts and sciences courses in order to accumulate the required number of liberal arts and sciences credits to qualify for the degree. Several programs have particular courses or groups of courses that are recommended as electives. Students should consult their advisor when choosing elective courses.

Previous Degree

Students who hold a completed Associates Degree must complete a maximum of 6 College Option credits. Students who hold a baccalaureate degree from an accredited post-secondary institution are considered to have completed general education requirements.

GPA

All students are required to achieve at least a 2.0 grade point average in their core or major requirements in order to earn an undergraduate degree at the College. Some programs require a higher GPA.

Honors Requirements

Departmental Honors

Students may graduate with honors in their field of study in most bachelor's degree majors. To receive honors, the student must have at least a 3.5 grade point average in courses taken in the major and/or pass a comprehensive examination in the subject. The student must also complete an honors thesis or project. This last requirement is the heart of the honors program, for each student must work closely with a faculty member to define the project, carry out the research and investigation, and write the final report or prepare the final project. Students may receive credit through independent study for their work on an honors project. The projects must be accepted by the department. Students who successfully complete these requirements will receive the notation on their transcript that they have graduated with honors in their field of study. For specific requirements, see the section on Honors Requirements under the bachelor's degree program description.

Graduation with Honors

Undergraduates who meet the qualifications will receive the associate's or bachelor's degree summa cum laude, magna cum laude, or cum laude as follows:

Cumulative GPA of at least 3.90: summa cum laude
Cumulative GPA of at least 3.75: magna cum laude
Cumulative GPA of at least 3.50: cum laude.

Pathways General Education Requirements

The new general education model adopted by the CUNY Board of Trustees is implemented through a process known as Pathways. This process defines 30 credits of a Common Core general education requirement for all students at CSI and gives some parameters for up to 12 additional credits of general education requirements known as the College Option. Pathways also aligns gateway courses for a number of popular majors. Details about Pathways are available at www.cuny.edu/academics/initiatives/degreepathways.html

Common Core Structure:

I. Required Core: 12 credits
   a. 6 credits of "English Composition" (RECR)
   b. 3 (or more) credits of "Mathematical and Quantitative Reasoning" (RMQR)
   c. 3 (or more) credits of "Life and Physical Sciences" (RLPR)

II. Flexible Core: 18 credits
Students must take six three-credit liberal arts and sciences courses, with at least one course from each of the following five areas and no more than two courses in any discipline or interdisciplinary field. The five areas are:

   a. World Cultures and Global Issues (FWGR)
   b. U.S. Experience in its Diversity (FUSR)
   c. Creative Expression (FCER)
   d. Individual and Society (FISR)
   e. Scientific World (FSWR)

III. The College Option: 12 credits
The "College Option" allows a Baccalaureate-granting institution, such as the College of Staten Island, to require up to an additional 12 credits for general education. For transfer students, this requirement can be reduced to 6 or 9 credits. For some students in majors that are accredited by outside agencies these credits may not be required.

Specifics of the Pathways Framework at the College of Staten Island:

The guiding principle of the College of Staten Island's Pathways Framework is to retain the current CSI general education program with as little loss and disruption as possible. Specifically, the General Education Committee believes that BS programs (excepting the BS in Art, Business with International Business concentration, Communications, Dramatic Arts, Music, and Social Work), which do not currently include a language requirement, should not be obliged to add a new component to the existing general education provisions.

For Macaulay Honors College, Business (AAS), Computer Technology (AAS), Electrical Engineering Technology (AAS), and the Nursing (AAS) program please refer to the specific section of the Catalog addressing the Pathways General Education requirements for these programs.

The Computer Science (BS) program, the Engineering Science (AS) program, the Engineering Science (BS) program, the Electrical Engineering (BS) program, the Medical Technology (BS) program, the Nursing (BS), and the Physics (7-12) (BS) program have received waivers from CUNY to specify particular courses students must take in STEM areas of the Common Core, Flexible Core and/or the College Option. If students take different courses other than those specified in
these areas, they will be certified as having completed the Pathways General Education areas, but it may not be possible for them to finish their degree program within the regular number of credits. Please refer to the specific section of the Catalog addressing the Pathways General Education requirements for these programs.
I. Pathways Required Core 12 credits

I. Required Core: 12 credits, all 3-credit courses at the 100-level:

a. English Composition (RECR) 6 credits

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 111</td>
<td>Introduction to College Writing</td>
<td>3 4</td>
</tr>
<tr>
<td>ENG 151</td>
<td>College Writing</td>
<td>3 4</td>
</tr>
</tbody>
</table>

b. Mathematical and Quantitative Reasoning (RMQR) 3 or more credits*

Non-Stem Variant

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH 102</td>
<td>Mathematics for Liberal Arts</td>
<td>3 3</td>
</tr>
<tr>
<td>MTH 121</td>
<td>Finite Mathematics</td>
<td>3 3</td>
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</table>

Stem Variant

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH 113</td>
<td>Introduction to Probability and Statistics</td>
<td>4 4</td>
</tr>
<tr>
<td>MTH 123</td>
<td>College Algebra and Trigonometry</td>
<td>4 4</td>
</tr>
<tr>
<td>MTH 130</td>
<td>Pre-Calculus Mathematics Applied Statistics Using</td>
<td>3 4</td>
</tr>
<tr>
<td>MTH 214</td>
<td>Computers</td>
<td>4 4</td>
</tr>
<tr>
<td>MTH 221</td>
<td>Applied Finite Mathematics &amp; Business</td>
<td>4 4</td>
</tr>
<tr>
<td>MTH 230</td>
<td>Calculus I with Pre-Calculus Analytic Geometry and Calculus I</td>
<td>6 6</td>
</tr>
<tr>
<td>MTH 231</td>
<td>Analytic Geometry and Calculus I</td>
<td>3 4</td>
</tr>
<tr>
<td>MTH 232</td>
<td>Analytic Geometry and Calculus II</td>
<td>3 4</td>
</tr>
<tr>
<td>MTH 233</td>
<td>Analytic Geometry and Calculus III</td>
<td>3 4</td>
</tr>
<tr>
<td>MTH 235</td>
<td>Accelerated Calculus I</td>
<td>5 6</td>
</tr>
</tbody>
</table>

*No student is required to complete more than 3 credits to fulfill the Mathematical and Quantitative Reasoning or Life and Physical Sciences area requirement, but may choose to do so using the STEM variant.

c. Life and Physical Sciences (RLPR) 3 or more credits*

Some courses in the Life and Physical Sciences area will have an associated required 1 credit/2 hour laboratory that is in the College Option. To fulfill the general education requirements non-transfer baccalaureate students must take at least one course from this area with a linked laboratory. Associate students need not take such a course.

Non-Stem Variant

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AST 102</td>
<td>Contemporary Theories of the Universe</td>
<td>3 3</td>
</tr>
<tr>
<td>AST 108</td>
<td>Survey of the Universe</td>
<td>3 3</td>
</tr>
<tr>
<td>BIO 103</td>
<td>Introduction to Biology</td>
<td>3 3</td>
</tr>
<tr>
<td>BIO 106</td>
<td>Principles of Biology I</td>
<td>3 3</td>
</tr>
<tr>
<td>CHM 104</td>
<td>Chemistry in a Nutshell</td>
<td>3 3</td>
</tr>
<tr>
<td>CHM 106</td>
<td>Chemistry for Today I</td>
<td>3 3</td>
</tr>
</tbody>
</table>

Stem Variant

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AST 120</td>
<td>Space Science I Human Anatomy and Physiology I</td>
<td>4 5</td>
</tr>
<tr>
<td>BIO 150</td>
<td>General Biology I</td>
<td>4 6</td>
</tr>
<tr>
<td>BIO 170</td>
<td>General Biology I</td>
<td>3 3</td>
</tr>
<tr>
<td>CHM 110</td>
<td>Principles of Chemistry I</td>
<td>3 3</td>
</tr>
<tr>
<td>CHM 141</td>
<td>General Chemistry I</td>
<td>3 4</td>
</tr>
<tr>
<td>GEO 100</td>
<td>Planet Earth</td>
<td>3 3</td>
</tr>
</tbody>
</table>
II. Pathways Flexible Core  18 credits*,**,***

Students must take six three-credit liberal arts and sciences courses, with at least one course from each of the following five areas and no more than two courses in any discipline or interdisciplinary field. The five areas are:

a. World Cultures and Global Issues (FWGR)
b. U.S. Experience in its Diversity (FUSR)
c. Creative Expression (FCER)
d. Individual and Society (FISR)
e. Scientific World (FSWR)

*At least six credits must be taken at the 200 level in the Flexible Core and College Option combined. Students are encouraged to take at least one 200 level course in the Flexible Core.

**At least one course chosen to fulfill the Flexible Core and/or College Option must fulfill the Pluralism and Diversity Requirement. Students are encouraged to select a course that fulfills this requirement in the Flexible Core.

***At least one course taken to fulfill the Flexible Core and/or College Option must fulfill the Contemporary World Requirement. This course may be the same course as the one selected to fulfill the Pluralism and Diversity Requirement, provided that the course appears on both approved course lists. Students are encouraged to select a course that fulfills this requirement in the Flexible Core.

****To fulfill general education requirements non-transfer baccalaureate students must take at least one course from the Scientific World bucket with a linked laboratory.

a. World Cultures and Global Issues Course List (FWGR)

Students pursuing either Bachelor of Arts and Bachelor of Science in Art, Business/International Business concentration, Communications, Dramatic Arts, Music, and Social Work will be **required** to take an introductory or intermediate level language course unless they have tested or been exempted. All STEM majors and other Bachelor of Science students may choose any course offered in this area.

Course No. | Course Title | Credits | Hours
--- | --- | --- | ---
AAD 105/ HST 105 | Contemporary African Issues | 3 | 3
ANT 100 | Understanding Our Worlds | 3 | 3
ASL 112 | Basic American Sign Language | 3 | 3
CHN 112 | Basic Mandarin Chinese I | 3 | 3
FRN 112 | Basic French I | 3 | 3
GEG 100 | Introduction to Geography | 3 | 3
GEG 101 | World Regional Geography | 3 | 3
HST 106 | Africa Encounters Europe | 3 | 3
HST 115 | Comparative Ancient Religion | 3 | 3
ITL 112 | Basic Italian I | 3 | 3
POL 103 | Understanding the Political World: An Introduction to Political Science | 3 | 3
SPN 112 | Basic Spanish I | 3 | 3

b. U.S. Experience in its Diversity Course List (FUSR)

1. Students are required to take the following course to satisfy the FUSR requirement:

Course No. | Course Title | Credits | Hours
--- | --- | --- | ---
COR 100 | United States Issues Ideas and Institutions | 3 | 3

2. In addition to COR 100, the following courses have been designated as FUSR. Students may choose one of these courses to satisfy the sixth Flexible Core area.

Course No. | Course Title | Credits | Hours
--- | --- | --- | ---
AAD 160/ HST 160 | African American History | 3 | 3
AAD 167 | The Black Experience | 3 | 3
HON 122 | The Peopling of New York City | 3 | 3
## c. Creative Expression Course List (FCER)

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Credits</th>
<th>Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 100</td>
<td>Introduction to Visual Arts</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>COM 100</td>
<td>Introduction to Media</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>COM 101</td>
<td>Media Literacy</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>HON 121</td>
<td>The Arts in New York City</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>MUS 105</td>
<td>World Music</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>MUS 108</td>
<td>Introduction to Jazz History</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>MUS 110</td>
<td>Introduction to Music History</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

## d. Individual and Society Course List (FISR)

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Credits</th>
<th>Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECO 101</td>
<td>Introduction to Economics</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>HST 100</td>
<td>Past and Present</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>HST 110</td>
<td>Individual and Society in An-</td>
<td>3</td>
<td>3</td>
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<tr>
<td></td>
<td>cient Greece</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HON 224</td>
<td>Shaping the Future of New</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>York City</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHL 101</td>
<td>Introduction to Philosophy</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>PHL 130</td>
<td>Introduction to Ethics</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>PSY 100</td>
<td>Psychology</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>SOC 100</td>
<td>Sociology</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

## e. Scientific World* Course List (FSWR)

Some course in the Scientific World area will have an associated required 1 credit/2 hour laboratory course that is in the College Option. To fulfill the requirements non-transfer baccalaureate students must take at least one course from this area with a linked laboratory. Associate students need not take such a course.

### Non-Stem Variant

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Credits</th>
<th>Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>AST 100</td>
<td>Contemporary Theories of the Solar System</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>AST 110</td>
<td>Life in the Universe</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>BIO 108</td>
<td>Principles of Biology II</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>CSC 115</td>
<td>Technology</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>CSC 119</td>
<td>Computer Technology Concepts</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>CSC 140</td>
<td>Algorithms and Computation</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>ENS 102</td>
<td>Introduction to Electrical and Electronic Technology</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>ENS 104</td>
<td>Introduction to Digital Tech-</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>nology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HON 223</td>
<td>Science and Technology in</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>New York City</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHL 100</td>
<td>Introduction to Logic</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>PHY 107</td>
<td>Maxwell to Einstein and Be-</td>
<td>3</td>
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</table>

### Stem Variant

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Credits</th>
<th>Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>AST 160</td>
<td>Space Science II</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>BIO 160</td>
<td>Human Anatomy and Physiology II</td>
<td>4</td>
<td>6</td>
</tr>
<tr>
<td>BIO 180</td>
<td>General Biology II</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>CHM 116</td>
<td>Principles of Chemistry II</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>CHM 142</td>
<td>General Chemistry II</td>
<td>3</td>
<td>4</td>
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<tr>
<td>CHM 240</td>
<td>Analytical Chemistry</td>
<td>4</td>
<td>8</td>
</tr>
<tr>
<td>CHM 250</td>
<td>Organic Chemistry</td>
<td>4</td>
<td>7</td>
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<tr>
<td>CSC 126</td>
<td>Introduction to Computer Sci-</td>
<td>4</td>
<td>6</td>
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<tr>
<td>ENS 250/</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHY 250</td>
<td>Engineering Mechanics</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Course</td>
<td>Title</td>
<td>Credits</td>
<td></td>
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<tr>
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</tr>
<tr>
<td>GEO 102</td>
<td>Historical Geology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PHY 156</td>
<td>Physics II</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>PHY 160</td>
<td>General Physics II</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PHY 240</td>
<td>Waves and Modern Physics</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

*No student is required to complete more than 3 credits to fulfill requirements in the Scientific World area but may choose to do so using the STEM variant.*
III. Pathways College Option 12 credits

The College Option allows a Baccalaureate granting institution, such as the College of Staten Island, to require up to an additional 12 credits for general education. For transfer students this requirement can be reduced to 6 or 9 credits. For some students in majors that are accredited by outside agencies these credits may not be required. The College Option at CSI is marked by the college's grounding in a Liberal Arts tradition and its belief in challenging its students. Except for laboratory and language courses as outlined below, all courses taken in the College Option will be at the 200 level or higher. The requirements are as follows:

- Textual Aesthetic, and Linguistic Analysis (TALA): One 200-level or above course must be taken within the area of TALA.
- Social Scientific Analysis (social science): One 200-level or above course must be taken within the area of social science.
- Contemporary World (cont. wrld): One course taken to fulfill the Flexible Core and/or College Option must fulfill the Contemporary World requirement.
- Pluralism and Diversity (p&d): One course taken to fulfill the Flexible Core and/or College Option must fulfill the Pluralism and Diversity requirement.

Requirements below apply to students who are required to take 12 College Option credits. For those requiring 9 credits, they may be earned by taking two four-credit courses from either of the three main areas and a science lab. For those requiring just 6 credits, these may be satisfied by taking two courses from any two of the three areas.

<table>
<thead>
<tr>
<th>Cr/Hr</th>
<th>All BA Majors and BS Majors which require 114-level language proficiency (BS in Art; Business/International Business concentration; Communications; Dramatic Arts; Music, Social Work)</th>
<th>BS Majors in STEM disciplines, Accounting, Business, Economics, Psychology</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 cr/ 4 hr</td>
<td>Social Scientific Analysis (social science)</td>
<td>Social Scientific Analysis (social science)*</td>
</tr>
<tr>
<td>3 cr/ 3 hr**</td>
<td>Textual, Aesthetic, and Linguistic Analysis (TALA)</td>
<td>Textual, Aesthetic, and Linguistic Analysis (TALA)*</td>
</tr>
<tr>
<td>1 cr/2hr</td>
<td>Science lab co-requisite with Life and Physical Sciences (RLPR)</td>
<td>Science lab co-requisite with Life and Physical Sciences (RLPR)</td>
</tr>
<tr>
<td>1 cr/2hr</td>
<td>Science lab co-requisite with Scientific World (FSWR)</td>
<td>Science lab co-requisite with Scientific World (FSWR)</td>
</tr>
<tr>
<td>3cr/4hr***</td>
<td>114-level language***</td>
<td>STEM credits</td>
</tr>
<tr>
<td>0 cr/ 0hr****</td>
<td>Contemporary World (cont. wrld.)</td>
<td>Contemporary World (cont. wrld.)</td>
</tr>
<tr>
<td>0 cr/0 hr****</td>
<td>Pluralism and Diversity (p&amp;d)</td>
<td>Pluralism and Diversity (p&amp;d)</td>
</tr>
<tr>
<td></td>
<td>At least six credits at the 200 level or higher in the Flexible Core and College Option combined</td>
<td>At least six credits at the 200 level or higher in the Flexible Core and College Option combined</td>
</tr>
</tbody>
</table>

*STEM disciplines may allow students to replace either one TALA or one Social Science requirement with a broadly-defined STEM course.
**3 credits is the minimum requirement. Students may opt to take course bearing 4 credits and either 3 or 4 hours to fulfill these requirements; additional credits will be applied towards electives.
***If the 114-level language requirement has been met through testing or exemption, an additional TALA or Social Science course must be substituted.
****These requirements may be fulfilled by courses taken to complete the TALA or Social Science requirements.
Pathways College Option For Transfer Students

Pathways College Option For Transfer Students 6*, 9**, 12***

*Students who transfer with a completed Associate Degree must complete a maximum of 6 College Option credits.

1. Transfer students who have not demonstrated proficiency to the second university level in a foreign language and whose major and degree program requires this proficiency will complete the foreign language requirement of the College Option.
2. Transfer students whose major and degree program do not require language proficiency should complete enough credits in STEM (depending on their choice of major), TALA or Social Science buckets of the College Option to bring the total to 6 credits.
3. Transfer students with a completed Associate Degree are encouraged to complete at least six credits at the 200 level.

**Students who transfer in from an Associate Degree program with more than 30 credits but without an Associate Degree must complete a maximum of 9 College Option credits.

1. Transfer students who have not completed two science courses with laboratories must take two laboratory courses (2 credits, 4 hours).
2. Transfer students who have not demonstrated proficiency to the second university level in a foreign language and whose major and degree program requires this proficiency will complete the foreign language requirement of the College Option.
3. Transfer students who are not required to take a language for their degree program will take either a STEM course or a TALA/Social Science course depending on their major (3 credits).
4. Additional courses to complete 9 credits in the College Option hours must be chosen from TALA/Social Science in the College Option or any area in the Flexible Core to bring the total to 9.
5. Transfer students must complete at least four credits at the 200 level in the College Option.

***Students who transfer in from a Bachelor's Degree program to CSI must complete 12 College Option credits and all the requirements below, including the requirement to take 6 credits at the 200 level in the Common Core and College Option combined.

Cr/Hr | All BA Majors and BS Majors which require 114-level language proficiency (BS in Art; Business/International Business concentration; Communications; Dramatic Arts; Music, Social Work) | BS Majors in STEM disciplines, Accounting, Business, Economics, Psychology
--- | --- | ---
4 cr/ 4 hr | Social Scientific Analysis (social science) | Social Scientific Analysis (social science)*
3 cr/ 3 hr** | Textual, Aesthetic, and Linguistic Analysis (TALA) | Textual, Aesthetic, and Linguistic Analysis (TALA)*
1 cr/2hr | Science lab co-requisite with Life and Physical Sciences (RLPR) | Science lab co-requisite with Science and Physical Sciences (RLPR)
1 cr/2hr | Science lab co-requisite with Scientific World (FSWR) | Scientific World (FSWR)
3cr/4hr*** | 114-level language*** | STEM credits
0 cr/ 0hr**** | Contemporary World (cont. wrld) | Contemporary World (cont. wrld.)
0 cr/0 hr***** | Pluralism and Diversity (p&d) | Pluralism and Diversity (p&d)
         | At least six credits at the 200 level or higher in the Flexible Core and College Option combined | At least six credits at the 200 level or higher in the Flexible Core and College Option combined

*STEM disciplines may allow students to replace either on TALA or one Social Science requirement with a broadly-defined STEM course.

**3 credits is the minimum requirement. Students may opt to take course bearing 4 credits and either 3 or 4 hours to fulfill these requirements; additional credits will be applied towards electives.

***If the 114-level language requirement has been met through testing or exemption, an additional TALA or Social Science course must be substituted.

****These requirements may be fulfilled by courses taken to complete the TALA or Social Science requirements.
College Option Social Scientific Analysis (Social Science)

These courses provide an introduction to the social sciences: the role of institutions, groups, and individuals in society. They examine human behavior and thought in its political, economic, social, cultural, and/or geographic context. Students are introduced to the fundamental methodologies of the social sciences, such as, hypothesis development, data collection and analysis, and the critical evaluation of evidence. Courses fulfilling this requirement are in the disciplines of African American studies, American studies, anthropology, communications, economics, geography, history, philosophy, political science, psychology, sociology, and women’s studies. Courses satisfying this requirement are marked (social science) at the end of the course description.

College Option Social Scientific Analysis (social science)

Course List

Courses that are marked with an asterisk (*) also fulfill the Pluralism and Diversity requirement and are identified as (p&d) at the end of the course descriptions. Courses that are marked with a caret (^) also fulfill the Contemporary World requirement and are identified as (cont. wrld.) at the end of the course descriptions.

Course No. | Course Title                                | Credit
----- | ------------------------------------------- | ----
AMS 101 | America: An Introduction                    | 3
HST 116 | Freshman Seminar in History                 | 3
HST 182/WGS 100 | Women’s History and Feminist Theory | 3
INT 100 | International Studies                        | 3
SOC 120 | Social Problems                              | 3
WGS 100/HST 182 | Women’s History and Feminist Theory Theory | 3

200-level courses with ENG 111 as a prerequisite (see course description for other prerequisites, which may include COR 100):

Course No. | Title                                           | Credit
----- | ----------------------------------------------- | ----
AAD 211*/AMS 211 | American Culture in Black and White | 4
AAD 247*/HST 266* | People and Cultures of Africa | 4
AAD 253*/POL 253* | African Politics                           | 4
AAD 260*/HST 207* | History of Africa                          | 4
AAD 262*/HST 262* | African American History: 1619-1865          | 4
AAD 263* | African American History: 1865-Present         | 4
AAD 265*/HST 265* | History of the Caribbean                    | 4
AAD 266*/HST 267* | Contemporary African Issues                 | 4
AAD 269*/HST 269* | Blacks in Urban America: 1900-Present        | 4
AAD 275*/GEG 275* | Place, Race, and Racism                     | 4
AAD 333*/HST 333* | Colonialism and the African Experience       | 4
AAD 361*/HST 361* | The Heritage of Marcus Garvey and W.E.B. DuBois | 4
AMS 210/PHL 210 211* | American Philosophy | 4
AMS 211*/AAD 211 | American Culture in Black and White         | 4
AMS 212 | Twentieth-Century America                     | 4
AMS 214 | America in the World                          | 4
AMS 220/GEG 222 | Geography of the United States               | 4
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HST 215 The Origins of Western Europe: 400-1000 CE 4
HST 216 Byzantine Thought and Civilization 4
HST 217*/WGS 217* Introduction to Women’s History 4
HST 218 The Roman World 4
HST 219 Greek and Roman Mythology 4
HST 220 Medieval Thought and Civilization 4
HST 221/AMS 221 The American Dream 4
HST 222* Islam: Religion and Culture 4
HST 223/GEG 223 American Landscapes 4
HST 224 Jewish History 4
HST 225 History of Christianity 4
HST 228 Renaissance and Reformation Europe 4
HST 229 History of Religion from Antiquity to Our Times 4
HST 230 Early Modern England 4
HST 231 Reacting to the Past 4
HST 234* Asian Tigers Since 1945 4
HST 235* The Modern Middle East 4
HST 236* Asian American History 4
HST 238*/SLS 240* World Civilization I 4
HST 239*/SLS 241* World Civilization II 4
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HST 244 U.S. History: 1607-1865 4
HST 245 U.S. History: 1865-Present 4
HST 246/AMS 224 Religion in America 4
HST 248* NYC: History and Problems 4
HST 249* Italian American History 4
HST 251* History of the U.S. City 4
HST 252/EDD 252* History of Education in the U.S. 4
HST 257* The History of American Immigration 4
HST 258/AMS 258 Vietnam and America: 1945-1975 4
HST 260 U.S. History, First Encounters to the Present 4
HST 262*/AAD 262* African American History: 1619-1865 4
HST 263*/AAD 263* African American History: 1865-Present 4
HST 264* The African Diaspora 4
HST 265*/AAD 265* History of the Caribbean 4
HST 266*/AAD 247* Peoples and Cultures of Africa 4
HST 267*/AAD 266* Contemporary African Issues 4
HST 269*/AAD 269* Blacks in Urban America: 1900-Present 4
HST 270 Modern British History: 1700-1900 4
HST 271^ Modern British History: 1900 to the Present 4
HST 272^ Modern Germany 4
HST 273 Medieval Russia 4
HST 274 History of Modern Russia 4
HST 275  Imperial Russia  4
HST 276  History of Italy  4
HST 277  Europe: 1815-1914  4
HST 278^  Twentieth-Century Europe  4
HST 284^  The Soviet Union and Contemporary Russia  4
HST 286*/WGS 286^  History of American Women  4
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HST 389*/WGS 389^  Themes in American Women's History  4
INT 200^  The World and the West: Contemporary Issues  4
INT 201^^  Latin American Perspectives  4
INT 203**/  Gender in the Contemporary World  4
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MGT 223/POL 223  American Political and Legal Thought  4
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PHL 216  Ideas and the World: 600 BCE-1600 CE  4
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PHL 224  Selected Issues in Metaphysics  4
PHL 236  Life and Death: Bioethics  4
PHL 237  The Tragic Dilemma  4
PHL 240  Philosophy of Religion  4
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POL 202/PHL 202  Modern Political Theory  4
POL 204/PHL 204  American Political and Legal Thought  4
POL 219/CIN 204  Politics, Cinema, Media  4
POL 221  The American Presidency  4
POL 222  The American Legal System  4
POL 223/MGT 223  Public Administration  4
POL 231  City Hall and Albany  4
POL 233  CUNY Internship Program in New York: Government and Politics I  4
POL 234  CUNY Internship Program in New York: Government and Politics II  4
POL 235/SLS 235  The American Political System  4
POL 240^  Comparative Government  4
POL 241  Western European Politics: United Kingdom, France, Italy, Germany  4
POL 244  From the Soviet Union to the Commonwealth of Independent
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College Option Textual, Aesthetic, and Linguistic Analysis (TALA)

These courses introduce students to the literary, visual, and performing arts. Students will examine the historical and cultural aspects of various works, as well as methods for their analysis and/or creation. This requirement aims to encourage active inquiry into the complexity of language, art, and communication. Courses included in this category are of a general, fundamental nature. The 200-level courses have a significant writing component and subscribe to the principle of writing across the curriculum. Courses satisfying this requirement are marked (TALA).

College Option Textual, Aesthetic, and Linguistic Analysis (TALA) Course List

Courses that are marked with an asterisk (*) also fulfill the Pluralism and Diversity requirement and are identified (p&d) at the end of the course descriptions. Courses that are marked with a caret (^) also fulfill the Contemporary World requirement and are identified (cont. wrld.) at the end of the course descriptions.

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### College Option Textual, Aesthetic, and Linguistic Analysis (TALA) Course List

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### 200-level courses

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<td>History and Theory of Television</td>
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<tr>
<td>COM 202*</td>
<td>Media and the Margins</td>
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<td>COM 371*</td>
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<td>DRA 215/ENH 212</td>
<td>Modes of Drama</td>
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<td>DRA 272</td>
<td>Performance Histories (Ancient to Early Modern)</td>
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<td>Classical French Drama</td>
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<td>ENH 206</td>
<td>Classics of Modern World Literature</td>
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<td>ENH 207*</td>
<td>Asian Literature Before 1900</td>
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<td>Contemporary Literature</td>
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<td>Literature and Global Cultures</td>
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<td>Introduction to Drama</td>
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<td>Nonfiction</td>
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<td>Literature and Humanities</td>
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<td>ENH 216</td>
<td>The Bible and Later Literature</td>
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<td>Introduction to Shakespeare</td>
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<td>Introduction to the Study of Literature</td>
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<td>ENH 221*/AFA 221*</td>
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<td>ENH 222*/WGS 222*</td>
<td>Women and Literature</td>
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<td>ENH 224*</td>
<td>U.S. Literature: Multicultural Perspectives</td>
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<td>LING 201</td>
<td>Introduction to Language</td>
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<td>ENL 329*</td>
<td>Migration and Diasporas in Literature and Culture</td>
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<td>ENL 335*</td>
<td>Modern East Asian Culture</td>
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<td>ENL 366*</td>
<td>Walt Whitman</td>
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<td>ENL 368*/WGS 368*</td>
<td>Queer Studies</td>
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<tr>
<td>ENL 384*/WGS 384*</td>
<td>Major Woman Author I</td>
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<td>ENL 385*/WGS 385*</td>
<td>Major Woman Author II</td>
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<td>ENL 386*/WGS 387*</td>
<td>Major Woman Author III</td>
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<td>Studies in Women in Literature and the Arts</td>
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<td>ENL 391*/WGS 391*</td>
<td>Woman as Hero</td>
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<td>ENL 392*/AAD 323*</td>
<td>The Black Writer in the Modern World</td>
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<td>ENL 395*</td>
<td>Mythic Concepts and Archetypes in Literature</td>
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<td>Cultural Variety in the Literature of the United States</td>
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<td>INT 230*/LNG 230^</td>
<td>Aspects of Contemporary China</td>
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<td>LNG 230*/INT 230^</td>
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<td>LNG 266*/INT 230^</td>
<td>Women in European Literature to the Renaissance</td>
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<tr>
<td>LNG 267*/WGS 267*</td>
<td>Women in European Literature after the Renaissance</td>
<td>4</td>
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<tr>
<td>LNG 315/CHN 315</td>
<td>Languages in Contrast: English</td>
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LNG 396*/ENL 396* Studies in Global Literature I 4
LNG 397*/ENL 397*/ MUS 203* Music History I - History of Jazz 3
MUS 236/AMS 236 Music in American Life 4
MUS 237/AMS 237 American Musical Theater 3
MUS 239* History of Jazz 3
PHL 243** Comparative Religion 4
PHL 344* Eastern Philosophy 4
POL 219/CIN 204 Politics, Cinema, Media 4
SPN 325* The Civilization of Pre-Columbian Spanish America 4
SPN 330* The Civilization of Spanish America 4
SPN 345/DRA 345 Spanish Theatre 4
SPN 350* Introduction to Spanish American Literature 4
SPN 465/DRA 465 Spanish Theatre in the 20th Century 4
SPN 480* Literature of the Hispanic Caribbean 4
WGS 201* Women's, Gender, and Sexuality Studies 4
WGS 222*/ENH 222* Women and Literature 4
WGS 266*/LNG 266* Women in European Literature to the Renaissance 4
WGS 267*/LNG 267* Women in European Literature after the Renaissance 4
WGS 270*/ART 240* Women and the Fine Arts 4
WGS 348*/ENL 348* Women Novelists 4
WGS 353 The Feminist Challenge in French Literature 4
ENL 366 Walt Whitman 4
WGS 368*/ENL 368* Queer Studies 4
WGS 384*/ENL 384* Major Woman Author I 4
WGS 385*/ENL 385 Major Woman Author II 4
WGS 387*/ENL 386* Major Woman Author III 4
WGS 390*/ENL 390* Studies in Women in Literature and the Arts 4
WGS 391*/ENL 391* Woman as Hero 4
Any 300- or 400-level course in foreign literature or equivalent courses in other languages, if offered. Some of these courses require a reading knowledge of the language; others allow students without knowledge of the language to read the works in English translation. Foreign language courses at the 300- or 400-level are included since many students place directly into these upper-level courses and need not pass through the prerequisite language courses.
## College Option Life and Physical Sciences Laboratory Course List

### College Option Life and Physical Sciences Laboratory Course List (Non-Stem Variant))

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Credit</th>
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<tbody>
<tr>
<td>AST 103</td>
<td>Galactic Laboratory</td>
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<tr>
<td>BIO 107</td>
<td>Principles of Biology I Laboratory</td>
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<tr>
<td>CHM 107</td>
<td>Chemistry for Today I Laboratory</td>
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<tr>
<td>GEO 101</td>
<td>Planet Earth Laboratory</td>
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### College Option Life and Physical Sciences Laboratory Course List (Stem Variant))

<table>
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<td>General Biology I Laboratory</td>
<td>1</td>
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<tr>
<td>CHM 111</td>
<td>Principles of Chemistry I Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CHM 121</td>
<td>General Chemistry I Laboratory</td>
<td>1</td>
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<tr>
<td>GEO 103</td>
<td>Historical Geology Laboratory</td>
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</tr>
<tr>
<td>PHY 121</td>
<td>General Physics I Laboratory</td>
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</table>
### College Option Mathematical and Quantitative Reasoning Laboratory Course List

#### College Option Mathematical and Quantitative Reasoning Laboratory Course List (Stem Variant)

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<td>MTH 229</td>
<td>Calculus Computer Laboratory</td>
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</table>
### College Option Scientific World Laboratory Course List

#### College Option Scientific World Laboratory Course List (Non-Stem Variant)

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<th>Course Title</th>
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<tr>
<td>AST 101</td>
<td>Planetary Laboratory</td>
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<tr>
<td>AST 111</td>
<td>Life in the Universe Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIO 109</td>
<td>Principles of Biology II Laboratory</td>
<td>1</td>
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<tr>
<td>CSC 117</td>
<td>Computer Technology Lab</td>
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<tr>
<td>CSC 141</td>
<td>Algorithms and Computation Laboratory</td>
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<td>ENS 103</td>
<td>Introduction to Electrical and Electronic Laboratory</td>
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<tr>
<td>ENS 105</td>
<td>Introduction to Digital Technology Laboratory</td>
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#### College Option Scientific World Laboratory Course List (Stem Variant)

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<th>Credits</th>
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<td>General Biology II Laboratory</td>
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<tr>
<td>CHM 117</td>
<td>Principles of Chemistry II Laboratory</td>
<td>1</td>
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<tr>
<td>CHM 127</td>
<td>General Chemistry II Laboratory</td>
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<tr>
<td>GEO 103</td>
<td>Historical Geology Laboratory</td>
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<tr>
<td>PHY 161</td>
<td>General Physics II Laboratory</td>
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## College Option 114-level Language Course List

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<td>ARB 114</td>
<td>Basic Arabic II</td>
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<tr>
<td>ASL 114</td>
<td>American Sign Language II</td>
<td>4</td>
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<tr>
<td>CHN 114</td>
<td>Basic Mandarin II</td>
<td>4</td>
</tr>
<tr>
<td>FRN 114</td>
<td>Basic French II</td>
<td>4</td>
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<tr>
<td>ITL 114</td>
<td>Basic Italian II</td>
<td>4</td>
</tr>
<tr>
<td>SPN 114</td>
<td>Basic Spanish II</td>
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</table>
Contemporary World Course List

Contemporary World Requirement: Courses fulfilling this requirement are designed to provide an understanding of global and regional contexts. This requirement will cover contemporary global issues, ideas, and institutions. The courses will emphasize the interactions of societies along political, economic, and cultural dimensions. Courses will cover the development, formation, and impact of the global context and ways in which different nations, societies, and cultures influence and are influenced by global forces. Students will use comparative and historical analytic frameworks for understanding the contemporary world.

At least one course taken to fulfill the Flexible Core and/or College Option must fulfill the Contemporary World Requirement. This course may be the same course as the one selected to fulfill the Pluralism and Diversity Requirement, provided that the course appears on both approved course lists. Students are encouraged to select a course that fulfills this requirement in the Flexible Core.

These courses have ENG 151 and COR 100 as prerequisites, have a significant writing component, and subscribe to the principle of writing across the curriculum. Courses satisfying this requirement are marked (cont. wld.) at the end of the course description.

Courses that are marked with a (*) also satisfy the Pluralism and Diversity requirement and are identified as (p&d) at the end of the course descriptions.

### The Contemporary World Course List

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>AAD 266*/HST 267*</td>
<td>Contemporary African Issues</td>
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<tr>
<td>CIN 203</td>
<td>Chinese Cinema</td>
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<tr>
<td>ECO 250</td>
<td>International Economics</td>
<td>4</td>
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<tr>
<td>ECO 251*</td>
<td>International Political Economy</td>
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<tr>
<td>ECO 252</td>
<td>Economic Geography</td>
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<tr>
<td>ENH 209</td>
<td>Literature and Global Cultures</td>
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<tr>
<td>GEG 225</td>
<td>Cultural Geography</td>
<td>4</td>
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<tr>
<td>GEG 250</td>
<td>Conservation and Humanity</td>
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<td>GEG 252</td>
<td>Economic Geography</td>
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<td>GEG 260</td>
<td>Urban Geography</td>
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<td>GEG 264</td>
<td>Political Geography</td>
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<tr>
<td>HON 206</td>
<td>Non-U.S. Experience: Social Sciences</td>
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<tr>
<td>HST 203</td>
<td>The World since 1914</td>
<td>4</td>
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<tr>
<td>HST 206*</td>
<td>Modern China</td>
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<td>HST 208*</td>
<td>History of Modern Latin America</td>
<td>4</td>
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<td>HST 209*</td>
<td>Modern Japan</td>
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<tr>
<td>HST 210*</td>
<td>History of Modern India</td>
<td>4</td>
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<td>HST 267*</td>
<td>Contemporary African Issues</td>
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<td>HST 271</td>
<td>Modern British History: 1900 to the Present</td>
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<td>Modern Germany</td>
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<td>HST 278</td>
<td>Twentieth-Century Europe</td>
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<td>HST 284</td>
<td>The Soviet Union and Contemporary Russia</td>
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<td>HST 331*</td>
<td>Black Intellectual Thought in the African Diaspora</td>
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<td>INT 200*</td>
<td>The World and the West: Contemporary Issues</td>
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<td>Latin American Perspectives</td>
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<td>INT 203*</td>
<td>Gender in the Contemporary World</td>
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<tr>
<td>INT 230*</td>
<td>Aspects of Contemporary China</td>
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<tr>
<td>LNG 230*</td>
<td>Aspects of Contemporary China</td>
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</table>
The Contemporary World Course List

Course No.      Title                                Credit
PHL 243*       Comparative Religion               4
POL 240*       Comparative Government             4
POL 251*       International Political Economy    4
POL 256*       East Asian Politics                4
POL 259        International Security             4
POL 260        International Politics: In Search of a New World Order 4
POL 261        International Organizations        4
POL 264        Political Geography               4
PSY 213*       Cross-cultural Psychology          4
SOC 240*       Minority Groups                   4
SOC 260*       Class, Status, and Power           4
WGS 203*       Gender in the Contemporary World    4

Pluralism and Diversity Course List

Pluralism and Diversity courses focus on questions of difference. More specifically, they examine issues of race, gender, sexual orientation, class, ethnicity, and ability. These courses deploy historical, theoretical, and critical scholarship to study the issues listed above.

At least one course taken to fulfill the Flexible Core and/or College Option must fulfill the Pluralism and Diversity requirements. Students are encouraged to select a course that fulfills this requirement in the Flexible Core.

Courses may be 200-, 300-, or 400-level. These courses have a minimum prerequisite of ENG 111. Courses that fulfill the Pluralism and Diversity requirement and are identified as (p&d) at the end of the course descriptions.

Courses that are marked with a caret (^) also fulfill the Contemporary World requirement and are identified as (cont. wrld.) at the end of the course descriptions.

Pluralism and Diversity Course List

Course No.      Title                                Credits
AFA 211         American Culture in Black and White 4
AFA 221/ENH 221 African American Literature          4
AFA 247         Peoples and Cultures of Africa       4
AFA 253         African Politics                     4
AFA 260         History of Africa                   4
AFA 262         African American History 1619-1865   4
AFA 263         African American History 1865-Present 4
AFA 266^        Contemporary African Issues         4
AFA 269         Blacks in urban America: 1900 to Present 4
AFA 275         Place, Race, and Racism              4
AFA 323         The Black Writer in the Modern World 4
AFA 333         Colonialism and the African Experience 4
AFA 361         The Heritage of Marcus Garvey and W.E.B. DuBois 4
ANT 225         Multicultural Literacy               4
AMS 306         Latinas/os in the United States        4
AMS 205         Modern Art in Latin America           4
AMS 211         American Culture in Black and White 4
<table>
<thead>
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<th>Course</th>
<th>Title</th>
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<td>ART 205</td>
<td>Modern Art in Latin America</td>
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<td>ART 240</td>
<td>Women and the Fine Arts</td>
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<tr>
<td>ANT 201</td>
<td>Cultural Anthropology</td>
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<tr>
<td>ANT 205</td>
<td>Native American Societies</td>
<td>4</td>
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<tr>
<td>ANT 225</td>
<td>Multicultural Literacy</td>
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<tr>
<td>ANT 306</td>
<td>Latinas/os in the United States</td>
<td>4</td>
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<tr>
<td>ANT 331</td>
<td>Women and Work</td>
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<td>ANT 350</td>
<td>Foraging Societies</td>
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<td>ANT 460</td>
<td>Personality and Culture</td>
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<td>CIN 240</td>
<td>Third World Cinema</td>
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<tr>
<td>COM 225</td>
<td>Multicultural Literacy</td>
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<tr>
<td>COM 371</td>
<td>Media and the Margins</td>
<td>4</td>
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<tr>
<td>ECO 251</td>
<td>International Political Economy</td>
<td>4</td>
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<tr>
<td>ECO 256</td>
<td>Analysis of Underdeveloped Areas</td>
<td>4</td>
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<tr>
<td>ECO 257</td>
<td>The Japanese Economy</td>
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<td>History of Education in the United States</td>
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<td>Asian Literature Before 1900</td>
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<td>U.S. Literature: Multicultural Perspectives</td>
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<td>ENL 385</td>
<td>Major Woman Author II</td>
<td>4</td>
</tr>
<tr>
<td>ENL 386</td>
<td>Major Woman Author III</td>
<td>4</td>
</tr>
<tr>
<td>ENL 390</td>
<td>Studies in Women in Literature and the Arts</td>
<td>4</td>
</tr>
<tr>
<td>ENL 391</td>
<td>Woman as Hero</td>
<td>4</td>
</tr>
<tr>
<td>ENL 392</td>
<td>The Black Writer in the Modern World</td>
<td>4</td>
</tr>
<tr>
<td>ENL 395</td>
<td>Mythic Concepts and Archetypes in Literature</td>
<td>4</td>
</tr>
<tr>
<td>ENL 396</td>
<td>Studies in Global Literature I</td>
<td>4</td>
</tr>
<tr>
<td>ENL 397</td>
<td>Studies in Global Literature II</td>
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<tr>
<td>ENL 398</td>
<td>Cultural Variety in the Literature of the United States</td>
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<tr>
<td>EDP 220</td>
<td>Special Educational Needs of People with Disabilities</td>
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<tr>
<td>GEG 275</td>
<td>Place, Race, and Racism</td>
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<tr>
<td>HON 205</td>
<td>Non-U.S. Experience: Humanities</td>
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<tr>
<td>HST 207</td>
<td>History of Africa</td>
<td>4</td>
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<tr>
<td>HST 217</td>
<td>Introduction of Women's History</td>
<td>4</td>
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<tr>
<td>HST 222</td>
<td>Islam: Religion and Culture</td>
<td>4</td>
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<tr>
<td>HST 234</td>
<td>Asian Tigers since 1945</td>
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<tr>
<td>HST 238</td>
<td>World Civilization I</td>
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<td>HST 239</td>
<td>World Civilization II</td>
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<td>HST 251</td>
<td>History of the U.S. City</td>
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<td>History of Education in the United States</td>
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<td>HST 206</td>
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<td>HST 207</td>
<td>History of Africa</td>
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<td>HST 208^</td>
<td>History of Modern Latin America</td>
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<td>HST 209^</td>
<td>Modern Japan</td>
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<tr>
<td>HST 210^</td>
<td>History of Modern India</td>
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<td>HST 217</td>
<td>Introduction to Women's History</td>
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<tr>
<td>HST 262</td>
<td>African American History 1619-1865</td>
<td>4</td>
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<tr>
<td>HST 263</td>
<td>African American History 1865-Present</td>
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<tr>
<td>HST 264</td>
<td>The African Diaspora</td>
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<tr>
<td>HST 265</td>
<td>History of the Caribbean</td>
<td>4</td>
</tr>
<tr>
<td>HST 266</td>
<td>Peoples and Cultures of Africa</td>
<td>4</td>
</tr>
<tr>
<td>HST 267^</td>
<td>Contemporary African Issues</td>
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</tr>
<tr>
<td>HST 269</td>
<td>Blacks in Urban America 1900-Present</td>
<td>4</td>
</tr>
<tr>
<td>HST 286</td>
<td>History of American Women</td>
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<tr>
<td>HST 331^</td>
<td>Black Intellectual Thought in the African Diaspora</td>
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<td>HST 333</td>
<td>Colonialism and the African Experience</td>
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<tr>
<td>HST 361</td>
<td>The Heritage of Marcus Garvey and W.E.B. DuBois</td>
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<tr>
<td>HST 386</td>
<td>The Recovery of Women's Past</td>
<td>4</td>
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<tr>
<td>HST 389</td>
<td>Themes in American Women's History</td>
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</tr>
<tr>
<td>INT 200^</td>
<td>The World and the West: Contemporary Issues</td>
<td>4</td>
</tr>
<tr>
<td>INT 203^</td>
<td>Gender in the Contemporary World</td>
<td>4</td>
</tr>
<tr>
<td>INT 230^</td>
<td>Aspects of Contemporary China</td>
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<td>LNG 230^</td>
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</tr>
<tr>
<td>LNG 266</td>
<td>Women in European Literature to the Renaissance</td>
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<tr>
<td>LNG 267</td>
<td>Women in European Literature after the Renaissance</td>
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<td>LNG 396</td>
<td>Studies in Global Literature I</td>
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<td>LNG 397</td>
<td>Studies in Global Literature II</td>
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<tr>
<td>MUS 203</td>
<td>Music History I - History of Jazz</td>
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<tr>
<td>NRS 305</td>
<td>Women's Health Issues Across the Lifecycle</td>
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<tr>
<td>PHL 243^</td>
<td>Comparative Religion</td>
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<tr>
<td>PHL 344</td>
<td>Eastern Philosophy</td>
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<tr>
<td>POL 240^</td>
<td>Comparative Government</td>
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<tr>
<td>POL 251^</td>
<td>International Political Economy</td>
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<td>POL 252</td>
<td>Middle East Politics</td>
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<tr>
<td>POL 256^</td>
<td>Eastern Asian Politics</td>
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</tr>
<tr>
<td>POL 253</td>
<td>African Politics</td>
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<tr>
<td>POL 338</td>
<td>Civil Rights and Liberties</td>
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</tr>
<tr>
<td>POL 342</td>
<td>Comparative Politics of Developing Countries</td>
<td>4</td>
</tr>
<tr>
<td>POL 349</td>
<td>Comparative Human Rights</td>
<td>4</td>
</tr>
<tr>
<td>POL 353</td>
<td>China: Politics and Foreign Relations</td>
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<tr>
<td>PSY 213^</td>
<td>Cross-Cultural Psychology</td>
<td>4</td>
</tr>
<tr>
<td>PSY 215</td>
<td>Psychological Perspectives on Disabilities</td>
<td>4</td>
</tr>
<tr>
<td>PSY 217</td>
<td>Psychology and Chinese Culture</td>
<td>4</td>
</tr>
<tr>
<td>PSY 235</td>
<td>Gender and Sexuality</td>
<td>4</td>
</tr>
<tr>
<td>PSY 268</td>
<td>Psychology of women</td>
<td>4</td>
</tr>
<tr>
<td>SLS 240</td>
<td>World Civilization I</td>
<td>4</td>
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<td>SLS 241</td>
<td>World Civilization II</td>
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Pluralism and Diversity Course List

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>SOC 202</td>
<td>Gender, Race, Ethnicity, and Class</td>
<td>4</td>
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<tr>
<td>SOC 240^</td>
<td>Minority Groups</td>
<td>4</td>
</tr>
<tr>
<td>SOC 260^</td>
<td>Class, Status, and Power</td>
<td>4</td>
</tr>
<tr>
<td>SOC 306</td>
<td>Latinas/os in the United States</td>
<td>4</td>
</tr>
<tr>
<td>SOC 330</td>
<td>Women and work</td>
<td>4</td>
</tr>
<tr>
<td>SOC 340</td>
<td>Ethnicity and Immigration</td>
<td>4</td>
</tr>
<tr>
<td>SOC 350</td>
<td>Psychosocial Aspects of Disability</td>
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<tr>
<td>SOC 371</td>
<td>Media and the Margins</td>
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<tr>
<td>SPN 325</td>
<td>The Civilization of Pre-Columbian Spanish America</td>
<td>4</td>
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<tr>
<td>SPN 330</td>
<td>The Civilization of Spanish America</td>
<td>4</td>
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<tr>
<td>SPN 350</td>
<td>Introduction to Spanish American Literature</td>
<td>4</td>
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<tr>
<td>SPN 480</td>
<td>Literature of the Hispanic Caribbean</td>
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<tr>
<td>WGS 201</td>
<td>Women's, Gender, and Sexuality Studies</td>
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</tr>
<tr>
<td>WGS 203^</td>
<td>Gender in the Contemporary World</td>
<td>4</td>
</tr>
<tr>
<td>WGS 217</td>
<td>Introduction to Women's History</td>
<td>4</td>
</tr>
<tr>
<td>WGS 222</td>
<td>Women and Literature</td>
<td>4</td>
</tr>
<tr>
<td>WGS 230</td>
<td>Sociology of Women</td>
<td>4</td>
</tr>
<tr>
<td>WGS 235</td>
<td>Gender and Sexuality</td>
<td>4</td>
</tr>
<tr>
<td>WGS 238</td>
<td>Sociology of Men</td>
<td>4</td>
</tr>
<tr>
<td>WGS 266</td>
<td>Women in European Literature to the Renaissance</td>
<td>4</td>
</tr>
<tr>
<td>WGS 267</td>
<td>Women in European after the Renaissance</td>
<td>4</td>
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<td>WGS 268</td>
<td>Psychology of Women</td>
<td>4</td>
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<tr>
<td>WGS 270</td>
<td>Women and the Fine Arts</td>
<td>4</td>
</tr>
<tr>
<td>WGS 330</td>
<td>Women and Work</td>
<td>4</td>
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<td>WGS 348</td>
<td>Women Novelists</td>
<td>4</td>
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<tr>
<td>WGS 368</td>
<td>Queer Studies</td>
<td>4</td>
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<tr>
<td>WGS 384</td>
<td>Major Woman Author I</td>
<td>4</td>
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<tr>
<td>WGS 385</td>
<td>Major Woman Author II</td>
<td>4</td>
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<tr>
<td>WGS 386</td>
<td>The Recovery of Women's Past</td>
<td>4</td>
</tr>
<tr>
<td>WGS 387</td>
<td>Major Woman Author III</td>
<td>4</td>
</tr>
<tr>
<td>WGS 389</td>
<td>Themes in American Women's History</td>
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</tr>
<tr>
<td>WGS 390</td>
<td>Studies in Women in Literature and the Arts</td>
<td>4</td>
</tr>
<tr>
<td>WGS 391</td>
<td>Woman as Hero</td>
<td>4</td>
</tr>
</tbody>
</table>

**Liberal Arts and Sciences Requirements**

Courses are classified as liberal arts and sciences or as non-liberal arts and sciences. For undergraduate degrees, the New York State Department of Education requires that a portion of the credit hours in the degree program must be in the liberal arts and sciences. These requirements are:

- Associate in Arts (AA) and Bachelor of Arts (BA), three-quarters of the credits shall be in the liberal arts and sciences
- Associate in Science (AS) and Bachelor of Science (BS), one-half of the credits shall be in the liberal arts and sciences
- Associate in Applied Science (AAS), one-third of the credits shall be in the liberal arts and sciences
- Bachelor of Fine Arts (BFA), one-fourth of the credits shall be in the liberal arts and sciences.
For more information please refer to the NYSED http://www.highered.nysed.gov/ocue/lrp/liberalarts.htm policy statement on liberal arts and sciences.
New Student Orientation Requirement
Students who enter the College with fewer than six credits are required to complete the orientation requirement. Students are expected to complete this requirement during their first semester or prior to the completion of 12 equated credits.

To satisfy the requirement, students may choose between two options:

(A) Successful completion of a one-credit freshman orientation course:
   - SPD 101 Issues in College Life (2 hours; 1 credit)
   - SKO 100 Freshman Orientation (2 hours; 1 credit) (open only to SEEK students)

(B) Complete the five components of the non-credit College Life Unit Experiences (CLUE) program, which include:
   - Attendance at a general orientation session on such topics as the purposes of higher education, an overview of College policies and services, and an appreciation of diversity. Students should attend the orientation session prior to the beginning of classes.
   - and

(C) Attendance at four CLUE-certified events: two Personal Growth Experiences and two Co-curricular Experiences. Personal Growth topics include study skills, career development, self-development, substance abuse, and pluralism. Co-curricular Experiences include events offered in conjunction with the scholarly, cultural, and civic programs presented regularly at the College.

Minor Requirements
In addition to completing the requirements of a major for a bachelor’s degree, students may choose to declare a minor. Students shall not declare minors in the same discipline as their majors. Requirements for completing a particular minor may be found in the section describing programs and courses in that field. Students are encouraged to consider taking a minor to guide their choice of elective courses into a coherent package and to enhance their career opportunities.

In order for a minor to be recorded on the student’s final transcript, the student must apply for the minor when filing for graduation.

Technology in Teaching and Learning
Technology is used in classes at the College of Staten Island to enhance students’ learning experience, reinforce class discussion, and provide better communication. In order for the College to successfully infuse technology in teaching and learning to enhance the College experience, the following applications are used: Blackboard, Internet search/research, Excel, Access, Email (with attachments), Word, PowerPoint

Students should anticipate using these applications and are expected to have some knowledge of them. The College requires and cultivates technological literacy in its students and employees. The Office of Information Technology at CSI offers tutorials and workshops for students. More information on technology tutorials and workshops is available on the College Website at http://www.csi.cuny.edu/studenthelpdesk/Training/index.htm or call 718.982.3695.

Writing Across the Curriculum
Students develop college-level writing skills in courses that are chosen across the curriculum. Quality writing skills are learned in courses that include a significant writing component in the laboratory sciences, social sciences, literature, and languages.
# Majors, Disciplines and Course Descriptions

## Accounting

*(Bachelor of Science, Minor)*

School of Business, Dean, Susan Holak, BS, MPhil, PhD  
Building 3N, Room 219  
Chairperson and Professor Laura Nowak

The program offers preparation for careers in finance and managerial accounting. For admission, continuation, and graduation from the Bachelor of Science degree program in Accounting, students must maintain a cumulative 2.5 GPA. This requirement does not apply to students enrolled in the AAS program, non-Accounting students pursuing an Accounting minor, or non-Accounting students enrolling in individual courses.

### Accounting (BS)

**Pre-Major Requirements: 39-43 credits**

*(Please note that the prerequisites for several Core courses include a specific math course (MTH 121, or MTH 123, MTH 130, MTH 230, MTH 231). Students may also use this course to fulfill a General Education requirement)*

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 114</td>
<td>Introduction to Accounting I</td>
<td>4</td>
</tr>
<tr>
<td>ACC 121</td>
<td>Introduction to Accounting II</td>
<td>4</td>
</tr>
<tr>
<td>BUS 160</td>
<td>Business Law I</td>
<td>3</td>
</tr>
<tr>
<td>BUS 215</td>
<td>Information Management</td>
<td>4</td>
</tr>
<tr>
<td>ECO 111</td>
<td>Introduction to Microeconomics</td>
<td>4</td>
</tr>
<tr>
<td>ECO 112</td>
<td>Introduction to Macroeconomics</td>
<td>4</td>
</tr>
<tr>
<td>FNC/ECO 240</td>
<td>Managerial Finance</td>
<td>3</td>
</tr>
<tr>
<td>MGT 110</td>
<td>Organizational Theory and Management</td>
<td>3</td>
</tr>
<tr>
<td>MGT/ECO 230</td>
<td>Introduction to Economic and Managerial Statistics</td>
<td>4</td>
</tr>
<tr>
<td>MKT 111</td>
<td>Marketing</td>
<td>3</td>
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</tbody>
</table>

In addition to the course taken to satisfy Mathematical and Quantitative Reasoning (RMQR), students must take an additional math course from the following list:  

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MTH 130</td>
<td>Pre-Calculus Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MTH 221</td>
<td>Applied Finite Mathematics and Business Calculus</td>
<td>4</td>
</tr>
<tr>
<td>MTH 223</td>
<td>Technical Calculus</td>
<td>4</td>
</tr>
<tr>
<td>MTH 230</td>
<td>Calculus I with Pre-Calculus</td>
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<tr>
<td>MTH 231</td>
<td>Analytic Geometry and Calculus I</td>
<td>3</td>
</tr>
<tr>
<td>MTH 232</td>
<td>Analytic Geometry and Calculus II</td>
<td>3</td>
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</table>

**Major Requirements: 37 credits**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ACC 215</td>
<td>Intermediate Accounting I</td>
<td>4</td>
</tr>
<tr>
<td>ACC 225</td>
<td>Intermediate Accounting II</td>
<td>4</td>
</tr>
<tr>
<td>ACC 241</td>
<td>Federal Income Taxation I</td>
<td>3</td>
</tr>
<tr>
<td>ACC 310</td>
<td>Cost Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>BUS 260</td>
<td>Business Law II</td>
<td>3</td>
</tr>
<tr>
<td>FNC/ECO 345</td>
<td>Managerial Finance II</td>
<td>4</td>
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</table>

Plus 16 additional credits in related subjects chosen with the written approval of the student's advisor.

### Managerial Accounting

*Note: Accounting majors may wish to take the examination for Certified Managerial Accountant.*

### Total Credits Required: 120

### Applicants for Certified Public Accountancy

Accounting majors who wish to apply for admission to the State examination for public accountancy must complete all courses listed above and must include the following five courses, all of which qualify as part of the 16 credits of related subjects.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ACC 250</td>
<td>Accounting Information Systems</td>
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<tr>
<td>ACC 414</td>
<td>Advanced Accounting</td>
<td>4</td>
</tr>
<tr>
<td>ACC 415</td>
<td>CPA Problems and Current Issues</td>
<td>4</td>
</tr>
<tr>
<td>ACC 422</td>
<td>Standards and Procedures of Financial Audits</td>
<td>4</td>
</tr>
<tr>
<td>BUS/COM 211</td>
<td>Communications in a Corporate Setting</td>
<td>3</td>
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</tbody>
</table>

**Honors**

To graduate with honors in Accounting a student must have a 3.5 grade point average in business courses and must have a 3.25 grade point average overall. An honors thesis or project supervised by a member of the Business faculty must be completed.

### Accounting Minor

**Minor Requirements: 18 credits**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ACC 114</td>
<td>Introduction to Accounting I</td>
<td>4</td>
</tr>
<tr>
<td>ACC 121</td>
<td>Introduction to Accounting II</td>
<td>4</td>
</tr>
<tr>
<td>ACC 215</td>
<td>Intermediate Accounting I</td>
<td>4</td>
</tr>
</tbody>
</table>

Two courses in accounting at the 200 or 300 level  

6 credits

### Accounting Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 114</td>
<td>Introduction to Accounting I</td>
<td>4</td>
</tr>
</tbody>
</table>

4 hours; 4 credits  

Introduction to the concepts and principles of accounting. Data accumulation technique. Emphasis on preparation and interpretation of financial statements. Areas of concentration include the accounting cycle, accounting for sole proprietorship, and introduction to partnership and corporate accounting.

Prerequisite: MTH 030 or an appropriate score on the CUNY Math Assessment Test, and the CUNY Assessment Test in Writing and the CUNY Assessment Test in Reading or the equivalent

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 121</td>
<td>Introduction to Accounting II</td>
<td>4</td>
</tr>
</tbody>
</table>

4 hours; 4 credits
A continuation of ACC 114. Partnership, corporations, and an introduction to cost accounting. Other topics discussed are current and long-term liabilities and statements of cash flow.
Prerequisite: ACC 114

ACC 215  Intermediate Accounting I
4 hours; 4 credits
Intense coverage of accounting principles, valuation, and accounting for current assets, plant assets, acquisitions, disposals, depreciation and depletion, intangible assets, current and long-term liabilities, and concepts of present and future value. Emphasis is placed on pronouncements of the Financial Accounting Standards Board and Accounting Principles Board.
Prerequisite: ACC 121

ACC 225  Intermediate Accounting II
4 hours; 4 credits
In-depth examination of long-term liabilities, stockholders’ equity, and income determination. Topics include bonds, stock issuance, retained earnings, leases, pensions, deferred taxes, and analysis of the statement of cash flow.
Prerequisite: ACC 215

ACC 235  Government and Not-for-Profit Accounting
3 hours; 3 credits
Through discussion and analysis of accounting for state and local governments and other not-for-profit institutions such as universities, hospitals, and voluntary health and welfare organizations. Topics discussed will include budgetary accounting, fund accounting, account groups, and financial statements.
Prerequisite: ACC 215

ACC 241  Federal Income Taxation I
3 hours; 3 credits
A comprehensive study of federal income tax principles and concepts as they apply to individuals. Tax treatment of the individual is stressed initially with emphasis on rates and exemptions, concepts of gross income, recognition and realization of income, and capital gain and loss concepts. Additional topics include exclusions, deductions and credits, analysis of property transactions, federal tax research, preparation of individual federal income tax returns, and computer tax returns.
Prerequisite: ACC 121

ACC 250  Accounting Information Systems
4 credits; 4 hours
This course introduces the concept of computer information systems in accounting. The course has a two-pronged approach. First, the general accounting cycles (general ledger, A/R, A/P, etc.) in an accounting information system are introduced. Second, the accounting cycles are related to the use of computer information technology. Concepts such as flow charting, data flow diagrams, security, and control are stressed.
Prerequisites: ACC 121 and one of the following: BUS 150 or BUS 215 or BUS 250 or CSC 102 or CSC 108/116/118

ACC 251  Federal Income Taxation II
3 hours; 3 credits
A broad study of the federal income tax pertaining to corporations and partnerships. A comprehensive study of tax accounting principles as applied to corporations and partnerships, corporate organization and reorganizations, corporate liquidations, corporate distributions, and special classes of corporations. Includes such areas as special deductions and computation of the normal tax, surtax, and tax on net long-term capital gains.
Prerequisite: ACC 241

ACC 300  International Accounting
4 hours; 4 credits
An overall view of the significant areas of transnational accounting that are relevant to accounting practices, procedures, and requirements of enterprises engaged in international operations. These areas include: foreign currency translation, accounting for inflation, financial reporting and disclosure, analyzing foreign financial statements, transfer pricing, and international taxation. (Offered only at the American University of Rome.)
Prerequisites: ACC 114 and ACC 121

ACC 310  Cost Accounting I
3 hours; 3 credits
Principles of cost accounting applicable to job order and process cost systems. Additional topics include cost-volume-profit relationships, standard costing, variable costing, and budgets.
Prerequisite: ACC 121

ACC 315  Analysis of Financial Statements
3 hours; 3 credits
The tools and techniques needed to explore the balance sheet, income statement, and the statement of cash flow. Heavy emphasis is on the use of ratios to evaluate the statements. Not open to Accounting majors.
Prerequisites: ACC 121 and ECO 240 /FNC 240

ACC 318  New York State and Local Taxes
3 hours; 3 credits
A comprehensive study of various forms of State and municipal taxation, including personal income, unincorporated business, franchise, unemployment insurance, and occupancy taxes.
Prerequisite: ACC 121

ACC 414  Advanced Accounting
4 hours; 4 credits
An intensive course in specialized areas of accounting. Current topics, which have influenced the accounting profession and the financial community, such as partnerships, accounting for business combinations, government accounting, and foreign operations, are studied. Emphasis is placed on areas stressed on the CPA examination. The authoritative pronouncements of the Financial Accounting Standards Board and its predecessor, the Accounting Principles Board, are interwoven into class discussions and problems assigned throughout the course. The application of advanced accounting theories to complex, practical problems is an integral part of the course.
Prerequisite: ACC 225
African and African Diaspora Studies

(Bachelor of Arts, Minor)
Interdisciplinary Program, Marchi Hall (2N), Room 210
Director: Emmanuel Mbah, Associate Professor

The purpose of this interdisciplinary program is to provide an understanding of selected aspects of African civilization; socio-cultural, and political institutions; contributions of African Americans; and their unique role in the United States.

The program includes courses in the history, music, art, drama, literature, and social-political life of Africa and the African Americans. The interdisciplinary approach is based on the premise that genuine understanding of the historical and cultural heritage of African Americans requires thorough and systematic training, control of the theoretical and methodological aspects of particular disciplines, as well as knowledge of the major assumptions of related disciplines. The program stresses the African continuity and the concept of the “African Diaspora.”

African and African Diaspora Studies (BA)

Major Requirements: 31-35 credits
Students majoring in African and African Diaspora Studies must complete:

1. AAD 160/HST 160 African American History: 1619 to Present
   3 credits
2. Five courses at the 200 level including at least one in each of the following categories:
   - Africa: AAD 247, 253, 260, 266, 333
   - Caribbean: AAD 223, 225, 265, 266
   - United States: AAD 202, 204, 221, 229, 262, 263, 267, 269, 321, 323, 361, 363
   - 20 credits
3. Two courses at the 300 level or above, one of which may be an independent study course
   8 credits
4. Foreign Language Requirement: Demonstration of proficiency in a foreign language through the intermediate level, 213 or above.
   0-4 credits

Electives: 43-47 credits
Total Credits Required: 120

African and African Diaspora Studies Minor

Minor Requirements: 16 Credits
Sixteen credits of courses in African and African Diaspora Studies at the 200 level or above including one course from each of the following: Africa, the Caribbean, the United States.

African and African Diaspora Studies Courses

AAD 105 Contemporary African Issues
(Also HST 105)
3 hours; 3 credits
An examination of post-colonial African issues, including the colonial legacy/neocolonialism; conflict and human rights; development, poverty and the debt problem; healthcare and infrastructure; globalization, democracy and multiparty politics; and, how these relate to the world at large. Not open to students who have completed HST 267 or AAD 266 (social science) (FWGR)

AAD 122 Black Dance Workshop
(Also DRA 122)
4 hours; 3 credits
Based on traditions of the peoples of Africa and the Caribbean, this course develops the technical language of Black dance, emphasizing the cultural interaction of native tradition and Western influence; the retelling of legends and tales through dance while weaving intricate designs and rhythms disguised in unrecognizable symbolism.

AAD 160 African American History: 1619 to the Present
(Also HST 160)
3 hours; 3 credits
From the forced migration of the first Africans in the 17th century to the contemporary struggles for equality; emphasis on such topics as slavery, abolition, Reconstruction, the origins of Jim Crow, urban migrations, the struggle for civil rights, non-violence, and the new militancy. (social science) (FUSR)

AAD 167 The Black Experience
3 hours; 3 credits
Drawing on the social sciences—i.e. anthropology, history, political science, and sociology—the course examines the black experience in Colonial America and the United States. (social science) (FUSR) Not open to students who have completed AAD 267.

AAD 202 African American Drama
(Also DRA 202)
4 hours; 4 credits
A study of the emergence of the Black Theater in the United States and an examination of the theater as a manifestation of the Black genius.

AAD 203 Workshop in Black Theater
4 hours; 4 credits
A workshop expressly designed to explore experimental improvisational techniques and methods by utilizing a wide range of movements, sources, and materials. The workshop is concerned with the development of individual awareness and creativity through the active and personal discovery of movement and is open to all students interested in the potentials of ethnic dance for attaining freedom of movement.

AAD 204 Ethnomusicology of African Americans
4 hours; 4 credits
History of African American music with emphasis on its relation to religion and culture. Examination and analysis of the musical styles of spirituals, gospel hymns, blues, and jazz in their cultural setting.

AAD 205 African American Musical Theater
(Also DRA 205)  
4 hours; 4 credits
A study of the musical theater of African Americans from its early beginnings in African culture to genius manifested in the 19th century, its influence on early vaudeville, its unique contribution to American musical theater, and the present-day popularity of its style. Current productions will be attended by the class and studied in detail when available.

AAD 211 American Culture in Black and White
(Also AMS 211)  
4 hours; 4 credits
Mutual perceptions of Blacks and Whites in 19th- and 20th-century America, how these perceptions were born, and how they have changed. NOTE: This course satisfies the college option requirement. (social science) (p&d) NOTE: This course satisfies the College Option. Prerequisites: ENG 111, COR 100

AAD 216 Geography of Africa
(Also GEG 216)  
4 hours; 4 credits
Provides an introduction to the physical and human geography of Africa. After a focus on climatic and geomorphological features, biogeography, and distribution of natural resources, the course will cover human geographic features including cultural landscapes, historical geographies, demography, industrialization, urbanization, and globalization. For geography majors, this is designated as a regional course. Prerequisites: ENG 151 and COR 100

AAD 221 African American Literature
(Also ENH 221)  
4 hours; 4 credits
A sociological examination of African American literature as it has developed from the dynamic interaction between Black and White communities and movements within the Black community. Works by African American authors will be analyzed with respect to the dominant social forces of their times and the ideas about the historically persistent polemics of assimilation, separation, or cultural pluralism, and their relevance for Americans of African descent in their struggle for equality. (literature) (p&d) (TALA) NOTE: This course satisfies the College Option. Prerequisites: ENG 151

AAD 223 Comparative Black Literature
4 hours; 4 credits
The works of African, African American, and Caribbean writers are examined. The poetry and fiction of modern African writers are considered with particular reference to the African personality, presence africaine, and negritude, the vision and image of Africa. Prerequisite: ENG 111

AAD 225 Contemporary Third World Literature
4 hours; 4 credits
A study of the literature of the world of the politically and economically oppressed and exploited. The course will deal with such themes as oppression and protest; violence; the crisis of identity; music, language, and rhythm; humorous distance; ritual and magic; and conceptualization and abstraction. (literature) (TALA) NOTE: This course satisfies the College Option. Prerequisite: ENG 111

AAD 247 Peoples and Cultures of Africa
(Also HST 266)  
4 hours; 4 credits
A descriptive survey of the peoples and cultures of the African continent. Emphasis is on those features and/or qualities of the African pattern of life that are common to the African people as a whole. NOTE: This course satisfies the college option requirement. (social science) (p&d) NOTE: This course satisfies the College Option. Prerequisites: ENG 111, plus any college-level history course or COR 100

AAD 253 African Politics
(Also POL 253)  
4 hours; 4 credits
An examination of the colonial and post-colonial problems of Africa, and the developmental process in general. Other topics to be discussed include the sociopolitical and historical-philosophical appeal of communism to Africa; ideology, strategy, and the communist model of development; and the idea of revolution as an agent of rapid transformation versus the Euro-American model of evolutionary change. (social science) (p&d) NOTE: This course satisfies the College Option. Prerequisites: ENG 111, COR 100

AAD 260 History of Africa
(Also HST 207)  
4 hours; 4 credits
Nineteenth-century African history, the story of European imperialism, and the emergence of modern, independent Africa and its problems. (social science) (p&d) NOTE: This course satisfies the College Option. Prerequisites: ENG 111, and COR 100 or any college-level history course

AAD 262 African American History: 1619-1865
(Also HST 262)  
4 hours; 4 credits
A study of the African American experience in the Western hemisphere. Emphasis on the slave trade, slave life, slave revolts, and the struggle for freedom. For History
majors and minors, this is designated as a United States history course. (social science) (p&d) NOTE: This course satisfies the College Option
Prerequisites: ENG 111, and COR 100 or any college-level history course

AAD 263  African American History: 1865 to the Present
(Also HST 263)
4 hours; 4 credits
Continuing role of African Americans in the building of their own nations. Emphasis on freedom movements as shown in literature, in civil rights movements, and in national and other political organizations. (social science) (p&d) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111, and COR 100 or any college-level history course

HST 264  The African Diaspora
(Also HST 264)
4 hours; 4 credits
A survey of the historical connections of the African diaspora from pre-transatlantic slave trade to post-colonial movements. This course examines the political and socio-economic institutions and interactions between Africans before and during the transatlantic slave trade, the reasons why Africans were enslaved, the inland and middle passages, the impact of the trade on African societies, African communities in the Diaspora, the end of the trade and the beginning of European colonial rule in Africa, as well as the legacies of both the transatlantic slave trade and colonialism in post-colonial Africa. For History majors and minors, this is designated as a world history course. (social science) (p&d) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111, COR 100 or any college history course

AAD 265  History of the Caribbean
(Also HST 265)
4 hours; 4 credits
Precolonial and colonial history of the Caribbean; an examination of the policies of the metropolitan powers, and the emergence of anticolonialist movements. For History majors and minors, this is designated as a World history course. (social science) (p&d) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111, and COR 100 or any college-level history course

AAD 266  Contemporary African Issues
(Also HST 267)
4 hours; 4 credits
An examination of post-colonial African issues, including the colonial legacy/neocolonialism; conflict and human rights; development, poverty and the debt problems; healthcare and infrastructure; globalization; democracy, and multiparty politics; and how these relate to the world at large. For History majors and minors, this is designated as a World history course. (p&d) (cont. wld.) (social science) NOTE: This course satisfies the College Option.
Prerequisites: ENG 151, and COR 100 and any college-level history course or African American Studies course

AAD 267  The Black Experience
4 hours; 4 credits
A workshop designed especially for teachers, students, and professionals working in the Black community. The course will cover a wide range of topics in literature, music, dance, drama, economics, history, and anthropology.

AAD 269  Blacks in Urban America: 1900 to the Present
(Also HST 269)
4 hours; 4 credits
An examination of various aspects of Black life in major American cities. Particular emphasis will be placed on the causes of the migration; ecological development of Black communities; urban violence; Blacks’ participation in conventional and radical politics; Blacks in the labor force; and the impact of urbanization on the Black family. For History majors and minors this is designated as a United States history course. (social science) (p&d) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111, and COR 100 or any college-level history course

AAD 275  Place, Race, and Racism
(Also GEG 275)
4 hours; 4 credits
This course explores how race is socially constructed and the role that place plays in the construction of racial and ethnic identities. From the formation of racialized places such as ghettos and Chinatowns to media coverage of school shootings in suburbs, we will examine the how, why, and where of racism and discrimination. The focus will be on racial issues in the United States, coupled with case studies from other regions for comparative purposes. (social science) (p&d). NOTE: This course satisfies the College Option.
Prerequisites: ENG 151 and COR 100

AAD 321  Race, Law, and Public Policy in the Contemporary United States
(Also POL 321)
4 hours; 4 credits
An examination of race relations in the United States through the prism of law and courts. In 1903, W.E.B. DuBois wrote: “The problem of the twentieth century is the problem of the color line.” This course examines questions such as: How does race matter today? Does the struggle for racial justice persist? Should the government use racial categories in the pursuit of equality? Policy areas to be studied include desegregation and the problem of urban education, employment discrimination and equal opportunity in the workplace, among other topics.
Prerequisites: POL 100 or POL 235, ENG 151, Sophomore standing

AAD 323  Literature of the African Diaspora
(Also ENL 392)
4 hours; 4 credits
A study of literature by writers of African descent residing outside of Africa that engages such issues of identity formation, cultural hybridity and the legacy of colonialism and/or slavery. For English majors or minors concentrating in literature, this course fulfills the requirement for literature written by women, American minorities, or writers in Asia (including the Middle East), Africa, Latin America and the Caribbean. For linguistics, writing, and dramatic literature concentrators, it counts as an elective in the major. For African and African Diaspora Studies majors or minors, this course provides additional upper-level course offerings in literature. (literature) (p&d) (TALA) NOTE: This course satisfies the College Option.
Prerequisite: An ENH 200-level course or ENL 290

AAD 332 Social Movements and Social Justice
Also SOC/ANT/INT 332
4 hours; 4 credits
An introduction to key sociological theories and concepts in the study of social movements. Addressing various questions, including: how have powerless groups of people organized social movements to try to improve their lives and change the society in which they lived? What did these movements accomplish in terms of improving people’s day-to-day lives? What role has policing and police played in social movements? Prerequisites: ENG 151 and SOC/ANT 203 or SOC 212 or SOC 200

AAD 333 Colonialism and the African Experience
(Also HST 333)
4 hours; 4 credits
An examination of the experience of Africans under colonial rule from the average person to traditional chiefs or the aristocratic class. This course analyzes the reactions of various classes of African society to colonial rule, focusing on the methods used by Africans to manipulate European colonial authorities, as well as the colonial response. For History majors and minors, this is designated as a World history course. (social science) (p&d) NOTE: This course satisfies the College Option.
Prerequisites: Any 200-level history course or 200-level African American Studies course and ENG 151

AAD 361 The Heritage of Marcus Garvey and W.E.B. DuBois
(Also HST 361)
4 hours; 4 credits
Marcus Garvey, the man and the idealist, his influence on African American consciousness; W.E.B. DuBois, the man and the thinker, his influence on African American consciousness and Pan-Americanism. (social science) (p&d) NOTE: This course satisfies the College Option.
Prerequisites: Any 200-level history course and ENG 151

AAD 377 The African-American Literary Tradition
(Also AMS 377/ENL 377)
4 hours; 4 credits
A study of the African-American literary tradition engaging such issues as the struggle for human rights and dignity, the definition and representation of African-American culture and identity, and double consciousness. Readings may include works by Frederick Douglass, Harriet Jacobs, W.E.B. DuBois, Langston Hughes, Zora Neale Hurston, Richard Wright, Ralph Ellison, Gwendolyn Brooks, James Baldwin, and Toni Morrison. For English majors or minors concentrating in literature, this course fulfills the requirements for Literature written by women, American minorities, or writers in Asia (including the Middle East), Africa, Latin America and the Caribbean. For linguistics, writing, and dramatic literature concentrators, it counts as an elective in the major.
Prerequisite: An ENH 200-level course or ENL 290

American Sign Language

Department of World Languages and Literatures, Building 2S, Room 109
Chairperson and Associate Professor Gerry Milligan

American Sign Language Minor

Minor Requirements: 12 credits
12 credits of courses in ASL (ASL) at or above the 200 level.

American Sign Language Courses

ASL 112 Basic American Sign Language I
3 hours; 3 credits
A beginning course in the fundamentals of expression and communication for those who have had no previous work in the language. Regular attendance in the Modern Languages Media Center is required. Not open to students who have taken ASL 113. (foreign lang.) (FWGR)
Prerequisite: Passing the CUNY Assessment Tests in Reading and Writing.

ASL 113 American Sign Language I
4 hours; 4 credits
An introduction to the fundamentals of American Sign Language (ASL) with particular attention to basic grammatical structures and the history of American Deaf persons. (foreign lang.). Not open to students who have completed ASL 112.
Prerequisite: Passing the CUNY Assessment Test in Reading and the CUNY Assessment Test in Writing.

ASL 114 American Sign Language II
4 hours; 4 credits
A continuation of ASL 112 or ASL 113 emphasizing vocabulary development and increased fluency in the language's grammar and structure, as well as a further examination of Deaf culture. (foreign lang.) NOTE: This course satisfies the College Option.
Prerequisites: Passing the CUNY Assessment Test in Reading and passing the CUNY Assessment Test in Writing and successful completion of ASL 112 or ASL 113 or its equivalent.

ASL 213 American Sign Language III
4 hours; 4 credits
A continuation of American Sign Language II with emphasis on ordinal numbers, the use of vertical space, and further development of visual receptive skills. (foreign lang.)
Prerequisite: Successful completion of ASL 114 or its equivalent

**ASL 215 American Sign Language IV**

4 hours; 4 credits

A continuation of American Sign Language III emphasizing stylish variations, a command of the various registers available in the language, and expanded use of classifiers. Students will closely examine Deaf culture, art, and technology.

Prerequisite: Successful completion of ASL 213 or equivalent

**ASL 313 Advanced Communication in American Sign Language**

4 hours; 4 credits

Refinement of communication skills through presentations, translation, and critical study of the grammar of American Sign Language through the analysis of selected literary works of advanced difficulty. Regular attendance in the World Languages and Literatures’ Media Center is required. (Literature)

Prerequisite: ASL 215

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**American Studies**

(Bachelor of Arts, Minor)

Interdisciplinary Program, Bldg (1P), Room 206

Director: Assistant Professor Bill Bauer

American Studies is the interdisciplinary study of American cultures, both past and present. American Studies courses examine the arts, literature, history, and popular culture of the United States and, more generally, North America. American Studies provides a strong foundation and essential skills for those preparing for careers in law, government, public history, archival management, education, social service, journalism, publishing, and communications. Individual courses in American Studies are recommended as cultural background for students in any major.

**American Studies (BA)**

**American Studies Requirements: 39-43**

**Pre-Major Requirements:** 3 credits

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>AMS 101</td>
<td>America: An Introduction</td>
<td>3</td>
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**Major Requirements:** 36-40 credits

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<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENH 203</td>
<td>Literary History of the United States to 1855</td>
<td>4 credits</td>
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<tr>
<td>ENH 204</td>
<td>Literary History of the United States since 1855</td>
<td>4 credits</td>
</tr>
<tr>
<td>American History</td>
<td>United States History: 1607-1865</td>
<td>4 credits</td>
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<tr>
<td>American History</td>
<td>United States History: 1865-present</td>
<td>4 credits</td>
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American Studies

16 credits beyond AMS 101, including at least two courses at the 300 level or above.

Research Seminar

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<th>Course</th>
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<tr>
<td>AMS 311</td>
<td>American Cultural Experience</td>
<td>4</td>
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**Foreign Language Requirement**

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<th>Requirement</th>
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<td>Demonstrated proficiency in a foreign language</td>
<td>0-4 credits</td>
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**Electives:** 35-39

**Total Credits Required:** 120

**Honors**

Graduating American Studies majors may apply for graduation with honors in AMS. To graduate with honors a student must have:

- Fulfilled the requirements for the AMS major
- Earned a 3.5 grade point average or better in AMS courses
- Been recommended for honors by the AMS Honors Committee. To be recommended a student must have submitted a proposal for an honors thesis and have completed this thesis to the satisfaction of the Honors Committee.

The honors thesis should be a substantial research paper supervised by a committee of two AMS faculty members. One member of this committee will be the primary supervisor with whom the student will register for up to eight credits of independent study. Candidates should ask an AMS faculty member of their choosing to be their primary supervisor. The primary supervisor and the program coordinator will appoint the other member of the candidate’s committee in consultation with the candidate. The thesis submitted need not be a new work; it can be an extension of a paper previously submitted in a course. Theses submitted to the Honors Committee chair must have the signature of both members of the candidate’s committee on the title page.

Students planning to apply for graduation with honors must submit a one-page proposal for their Honors thesis, signed by the members of their committee, to the AMS Honors Committee in the final semester of their junior year. Honors thesis for majors graduating in January must be submitted to the AMS coordinator by November 20 for majors graduating in June or by April 1 for majors graduating in August.

**American Studies Minor**

**Minor Requirements:** 23 credits

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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>AMS 101</td>
<td>America: An Introduction</td>
<td>3</td>
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American literature (8 credits):

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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENH 203</td>
<td>Literary History of the United States to 1855</td>
<td>4 credits</td>
</tr>
<tr>
<td>ENH 204</td>
<td>Literary History of the United States since 1855</td>
<td>4 credits</td>
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American history (8 credits):

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<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>HST 244</td>
<td>United States History: 1607-1865</td>
<td>4 credits</td>
</tr>
<tr>
<td>HST 245</td>
<td>United States History: 1865-present</td>
<td>4 credits</td>
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And any additional AMS course at the 200 level or above.

**American Studies Courses**

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<tr>
<th>Course</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>AMS 101</td>
<td>America: An Introduction</td>
<td>3</td>
</tr>
</tbody>
</table>
Classic interpretations of American culture through a broad interdisciplinary survey of the men and women, ideas, and events that have contributed to the American experience. The abiding ideas, values, and myths that have shaped the nation's arts, actions, and beliefs, drawing from painting, architecture, film, music, history, and literature. From 17th-century witchcraft to 20th-century witch hunts, from General Washington to General Hospital, from the assembly line to assembler language, from Revere to Rambo. (social science) NOTE: This course satisfies the College Option.

AMS 150  Dance History: Twentieth-Century Survey  
(Also DAN 150)  
4 hours; 3 credits  
Concentrating on the "pioneers of modern dance"--Duncan, Denishaw, Graham, Humphrey, Weidman, and others--as well as on the experimental and avant-garde, using lectures, demonstrations, video, and film to illustrate examples of outstanding choreography. The course includes the dance of India and Black dance coordinated with professional concerts and student reports. Includes "Happenings in Today's World of Dance." No dance background required. (arts & com.) (TALA)

AMS 205  Modern Art in Latin America  
(Also ART 205)  
4 hours; 4 credits  
An introduction to the development of modern art in Latin America. We will study the emergence of key art movements in Latin America and how artists participated in and responded to important historical events and social changes across the Americas. How have Latin American artists portrayed the idea of "Latin America" or being "Latino" in their work? Other issues will include: negotiating with their colonial past and with European models of modernity; art and revolution; the question of indigenous art forms and the "popular"; diasporic continuities within Latin America, Latino experience in the United States, and mestizaje (cultural mixing). (arts & com) (p&d) (TALA)  
Prerequisites: ENG 111; and ART 100 or ART 200 or ART 201 or AMS 101

AMS 208  Latina/o Media  
(Also CIN 208/COM 208)  
4 hours, 4 credits  
Examines the production, content, and reception of Latina/o-oriented media in the U.S. from a transnational perspective.  
Prerequisites: ENG 151 and (CIN 100 or COM 100 or COM 150 or any AMS course)

AMS 209  Art and Society in America  
(Also ART 209)  
4 hours; 4 credits  
Three hundred years of American art, studied as an expression of American life. Works of art are viewed in terms of style and also as guides to the complexities of American history and culture. (arts & com.) (TALA)  
Prerequisites: ENG 111; and ART 100 or ART 200 or ART 201 or AMS 101

AMS 210  American Philosophy  
(Also PHL 210)  
4 hours; 4 credits  
A study of philosophy in America. Topics of inquiry will be selected from such movements and figures as the following: Puritanism, empiricism, idealism, and pragmatism; Jonathan Edwards, Ralph Waldo Emerson, Josiah Royce, Charles S. Peirce, William James, John Dewey, George Santayana, and Alfred North Whitehead. (social science)  
Prerequisites: ENG 111, COR 100

AMS 211  American Culture in Black and White  
(Also AAD 211)  
4 hours; 4 credits  
Mutual perceptions of Blacks and Whites in 19th- and 20th-century America; how these perceptions were born, and how they have changed. NOTE: This course satisfies the college option requirement. (social science) (p&d)  
NOTE: This course satisfies the College Option.  
Prerequisites: ENG 111, COR 100

AMS 212  Twentieth-Century America  
4 hours; 4 credits  
An examination of selected works that are landmarks in the development of 20th-century American culture. Authors will include Hemingway, Faulkner, Ellison, Wright, Miller, Mailer, Beattie, Harrington, Friedan and Galbraith. (social science) NOTE: This course satisfies the College Option.  
Prerequisites: ENG 111, COR 100

AMS 214  America in the World  
4 hours; 4 credits  
Cross-cultural perspectives on American values, arts, and events. What foreign observers have thought about the United States. How our experience has paralleled, or differed from, that of Europe since the 18th century. What the important similarities, differences, and influences are between Western and Eastern cultures. (social science) NOTE: This course satisfies the College Option.  
Prerequisites: ENG 111, COR 100

AMS 220  Geography of the United States  
(Also GEG 222)  
4 hours; 4 credits  
This course explores the geographic variety of the United States. The country's physical characteristics are regionally diverse and provide an array of resources. Different populations have put them to use in various ways. The course traces who lives where, why, what they have found there and what have they done with it. Emphasis is placed on the contrasting threads of regional variation and national homogenization. (social science) NOTE: This course satisfies the College Option.  
Prerequisite: ENG 111 and COR 100

AMS 221  The American Dream  
(Also HST 221)  
4 hours; 4 credits  
The hopes, the frustrations, and, particularly, the dreams of American society as observed by foreign and native commentators in the past and present. This course will attempt to assess not only the idealization of the Ameri-
can dream, but also disillusionment with it as expressed by such writers as Franklin, Tocqueville, Emerson, Whitman, Henry Adams, and Norman Mailer. (social science) NOTE: This course satisfies the College Option. Prerequisites: ENG 111 and COR 100 or any American studies or history course

**AMS 222**  The City in American Culture  
4 hours; 4 credits  
Impressions and analyses (literary, social, historical, cinematic, and photographic) of the varied cultures, institutions, and environments that are the substance of American urban life. A course that posits few facile solutions to the urban crisis but knows which questions are to be asked and which myths must be demolished if cities are ever to become humane and pleasurable organisms rather than death- and profit-bound ones. (social science) NOTE: This course satisfies the College Option. 
Prerequisites: ENG 111 and COR 100

**AMS 224**  Religion in America  
(Also HST 246)  
4 hours; 4 credits  
Addresses the development of religion—Protestant, Catholic, Jewish, and others—in the context of American social, cultural, and intellectual history. (social science) NOTE: This course satisfies the College Option. 
Prerequisites: ENG 111, COR 100

**AMS 227**  The Geography of Drugs  
(Also GEG 227)  
4 hours; 4 credits  
This course combines cultural and economic geography to examine the illicit drug trade. Students will develop an understanding of the global nature of the commodity chains associated with specific major drugs, the ecological and social impact on producing regions, and the operation of drug-trafficking organizations and drug markets here in the U.S. For geography majors this is designated as a topics course. 
Prerequisite: ENG 151 and COR 100

**AMS 230**  American Film and American Myth  
(Also CIN 230)  
4 hours; 4 credits  
The American film and its relationship to American myth, society, and culture. Topics to be included are: the American West, the gangster, rural and urban life, the nature of war, race and class, comic views of America. (arts & com.) (TALA) NOTE: This course satisfies the College Option. 
Prerequisite: ENG 111 and COR 100

**AMS 231**  American Myths and Realities  
4 hours; 4 credits  
American society, chiefly in the 19th and 20th centuries, and its problems, including democracy in an industrial order, the city, class stratification, and racial conflict, as seen by such representative realistic writers as Henry James, Dreiser, Veblen, William Dean Howells, and W.E.B. DuBois. (social science) NOTE: This course satisfies the College Option. 
Prerequisites: ENG 111, COR 100

**AMS 236**  Music in American Life  
(Also MUS 236)  
4 hours; 4 credits  
The music-making and listening habits of the American people, examining the musical activities, the musicians, and the social setting. The course focuses on the history and significance of rock as an American and international phenomenon, exploring issues of gender, race, and the multicultural musical traditions that have enriched American popular music. This course develops the ability to understand music as an expression of cultural values, and does not require instrumental training or the ability to read music. This course does not meet requirements for the major or the minor in Music. (arts & com.) (TALA) NOTE: This course satisfies the College Option. 
Prerequisite: ENG 111

**AMS 237**  American Musical Theater  
(Also MUS 237)  
3 hours; 3 credits  
A survey of American musical theater and its development from the second half of the 19th century to our own times, considered in the context of a changing America. Sousa, Herbert, Friml, Cohan, Kern, Gershwin, Bernstein, Arlen, Weill, Thomson, and Copland are some of the composers whose works will be covered. (arts & com.) (TALA) NOTE: This course satisfies the College Option. 
Prerequisite: ENG 111; for Music majors, MUS 120

**AMS 239**  The American Civil War  
4 hours; 4 credits  
The course focuses on the civil and military aspects of the Civil War, including the events and issues leading up to the war, the struggle over the expansion of slavery, the Union’s and the Confederacy’s military strategies, and analysis of key battles. The course will examine the presidency of Lincoln and will explore major constitutional issues, such as the right of secession and the problems of maintaining civil liberties during a civil war. 
Prerequisites: ENG 111, COR 100

**AMS 241**  Popular Culture and Mass Society  
4 hours; 4 credits  
Popular entertainment as the expression of American cultural values: television, radio, music, and sports; westerns, detective stories, and soap operas. Functional analysis of entertainment as the myth and ritual of mass society. The problems of aesthetic standards in a culture dominated by commercialized taste. Relationships between popular entertainment and political values. Readings from Durkheim, Eliot, McLuhan, Nye, and Browne. (TALA) NOTE: This course satisfies the College Option. 
Prerequisite: ENG 111

**AMS 243**  American Humor  
4 hours; 4 credits  
Humor in America shares some characteristics found in all cultures, past and present, and sometimes has seemed peculiarly “native.” This course traces the variety and development of American humor from colonial days to the present through literature, drama, art, cartoons, and film. Humor will be examined as psychological phenomenon, as philosophical outlook, and as intellectual
history. (literature) (TALA) NOTE: This course satisfies the College Option.
Prerequisite: ENG 111

AMS 251 American Ideas
(Also HST 240)
4 hours; 4 credits
A major idea in American intellectual history will be examined from the perspective of two or more disciplines. This course will demonstrate the interdisciplinary method and philosophy of American Studies. Puritanism, transcendentalism, the idea of freedom, social Darwinism, Freudianism, and socialism are possible topics. (social science) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111, and COR 100 or AMS 101 or any history course

AMS 252 American Arts
4 hours; 4 credits
A major artistic theme will be traced through two or more of the American arts. This course will demonstrate the interdisciplinary method and philosophy of American Studies. Realism and romanticism, functionalism and formalism, naturalism and the genteel tradition, and organic form are possible topics. (arts & com.) (TALA) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111 and COR 100

AMS 258 Vietnam and America: 1945-1975
(Also HST 258)
4 hours; 4 credits
An examination of the history of American involvement in Vietnam, the experience of Americans and Vietnamese who fought the Second Indochina war and its effects on American society. For History majors and minors, this is designated as a United States history course. (social science) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111, COR 100 or any college-level history course

AMS 303 U.S. Fiction, Early National Period to Late Nineteenth Century
(Also ENL 303)
4 hours; 4 credits
A study of U.S. fiction from the early national period to the late nineteenth century. Works will be examined in relation to literary and other cultural-historical contexts. Topics covered may include the idea of “Americanness,” slavery, nationhood, U.S. expansion, gender issues, and industrialism. For English majors and minors this is designated as a literature, American literature and genre course.
Prerequisite: An ENH 200-level course or ENL 290

AMS 304 U.S. Fiction, Early North American Literature
(Also ENL 304/LNG 304)
4 hours; 4 credits
A study of North American literature to 1830 across a variety of genres, authors, and cultural traditions. For English majors and minors this is designated as a literature, American literature and genre course.
Prerequisite: An ENH 200-level course or ENL 290

AMS 306 Latinas/os in the United States
(Also SOC 306/ANT 306)
4 hours; 4 credits
An examination of the sociological and anthropological literature on Latinas/os in the United States. The main goal is to acquaint students with the most important economic, political, and social aspects that contemporary Latino communities are experiencing. Using ethnographies, the course will focus on community formation, social movements, race and ethnicity, gender and sexuality issues, immigration, and transnationalism. Class discussions will also address differences based on national origin, class, and generation. This is a reading and writing intensive course in which students are expected to conduct primary research. (social science) (p&d) NOTE: This course satisfies the College Option.
Prerequisite: An ENH 200-level course and one of the following: SOC 200, SOC 201, SOC 240, or SOC 260

AMS 308 American Art Since 1945
(Also ART 308)
4 hours; 4 credits
The course will examine the development of American art since World War II. Prerequisite: ART 100 or ART 200 or ART 201 or AMS 212 or ART 208

AMS 309 U.S. Literature in Comparative Contexts
(Also ENL 309/LNG 309)
4 hours; 4 credits
This course examines U.S. literature in a comparative, transpacific frame by considering U.S. writing with relation to what lies outside national borders and emphasizing the role of international cultures, literatures, and politics in the development of U.S. writing. The course will cover, variously, hemispheric studies, transatlantic studies (beyond U.S.-British), transpacific studies, and Africa-U.S. studies.
Prerequisite: An ENH 200-level course

AMS 311 The American Cultural Experience
4 hours; 4 credits
A senior seminar for American Studies majors who will do independent research on a common theme of the American experience and meet to discuss and analyze their findings. Examples of such topics are Puritan religion, the frontier, slavery, reform, feminism, big business, radicalism, literary naturalism, imperialism, and popular culture.
Prerequisite: A 200-level American studies course

AMS 335 Society and Culture in the United States
(Also HST 335)
4 hours; 4 credits
Major artistic and intellectual developments in America from the 18th century to the present, and their relationship to changing social and political realities. For History majors and minors, this is designated as a United States history course.
Prerequisites: Any 200-level history course or any 200-level American studies course and ENG 151
AMS 377  The African-American Literary Tradition
(Also AAD 377/ENL 377)
4 hours; 4 credits
A study of the African-American literary tradition engaging such issues as the struggle for human rights and dignity, the definition and representation of African-American culture and identity, and double consciousness. Readings may include works by Frederick Douglass, Harriet Jacobs, W.E.B. DuBois, Langston Hughes, Zora Neale Hurston, Richard Wright, Ralph Ellison, Gwendolyn Brooks, James Baldwin, and Toni Morrison. For English majors or minors concentrating in literature, this course fulfills the requirements for Literature written by women, American minorities, or writers in Asia (including the Middle East), Africa, Latin America and the Caribbean. For linguistics, writing, and dramatic literature concentrators, it counts as an elective in the major.
Prerequisite: An ENH 200-level course or ENL 290

Anthropology
See Sociology/Anthropology Section of the catalog

Arabic

(Minor)
Department of World Languages and Literatures
Chairperson and Associate Professor Gerry Milligan, Building 2S, Room 109

All students with prior training in Arabic must take a proficiency examination to determine placement at an appropriate level.

Arabic Minor

Minor Requirements: 12 Credits
12 credits of courses in Arabic (ARB) at or above the 200 level.

Arabic Courses

Department of World Languages and Literatures, Building 2S, Room 109
Chairperson and Associate Professor Gerry Milligan

ARB 112 Basic Arabic I
3 hours; 3 credits
A beginning course in the fundamentals of expression and communication for those who have had no previous work in the language. Regular attendance in the World Languages and Literatures Media Center is required. Not open to native speakers or students who have taken ARB 113.
Prerequisites: Passing the CUNY Assessment Tests in Reading and Writing; closed to native speakers

ARB 113 Basic Arabic I
4 hours; 4 credits
A beginning course in the fundamentals of expression and communication for those who have had no previous work in the language. Regular attendance in the World Languages and Literatures Media Center is required. (foreign lang.). Not open to students who have completed ARB 112.
Prerequisite: Passing the CUNY Assessment Test in Reading and passing the CUNY Assessment Test in Writing

ARB 114 Basic Arabic II
4 hours; 4 credits
A continuation of ARB 113. Regular attendance in the World Languages and Literatures Media Center is required. (foreign lang.)NOTE: This course satisfies the College Option.
Prerequisite: ARB 112 or ARB 113 or equivalent. Passing the CUNY Assessment Test in Reading and passing the CUNY Assessment Test in Writing.

ARB 213      Continuing Arabic I
4 hours; 4 credits
This course is for those students who have successfully completed the second semester of Basic Arabic or who have been placed into this intermediate level. The course will further develop skills and proficiency in listening, speaking, reading, and writing in Arabic. Greater emphasis will be placed on transitioning from spoken to written language.
Prerequisite: ARB 114 or equivalent

ARB 214 Advanced Communication Skills in Arabic
4 hours; 4 credits
Refinement of written and oral expression through composition, translation, oral reports, and critical study of Arabic grammar based on the analysis of selected literary and cultural materials. (foreign lang.)
Prerequisites: ARB 114

ARB 215      Continuing Arabic II
4 hours; 4 credits
This course is for those students who have successfully completed the first semester of Continuing Arabic (ARB 213) or who have been placed into this intermediate level. The course will further develop skills and proficiency in listening, speaking, reading, and writing in Arabic. Greater emphasis will be placed on transitioning from spoken to written languages.
Prerequisite: ARB 213 or equivalent

ARB 313 Advanced Communication Skills
4 hours; 4 credits
Refinement of oral and written expression through oral reports, composition, translation, and critical study of readings that are of advanced difficulty and involve more complex grammatical structures. (literature) (TALA) NOTE: This course satisfies the College Option.
Prerequisites: ARB 215

ARB 320 Arabic Civilization and Culture
4 hours; 4 credits
A panoramic approach to the history, art, literature, political and social systems of the Arabic-speaking world. Designed to provide a basic knowledge of Arabic civilization. (literature) (TALA) NOTE: This course satisfies the College Option.
Prerequisites: ARB 313 on p. 92
ARB 340 Arabic Literature
4 hours; 4 credits
An introduction to Arabic literature. The course focuses on the refinement of written and oral expression through composition, oral reports, and critical analysis of literary readings. (literature) (TALA) NOTE: This course satisfies the College Option.
Prerequisites: ARB 213 or ARB 214

Art

(Bachelor of Arts, Bachelor of Fine Arts, Minor)
(Photography Minor)
Department of Performing and Creative Arts, Center for the Arts (1P), Room 203
Chairperson and Professor George Emilio Sanchez

The Art program is designed for students interested in both studio art and art history. The department is located in the Center for the Arts with outstanding studio and workshop spaces.

Bachelor of Arts (BA) in Art

I. Bachelor of Arts (BA) in Art

Pre-Major Requirements: 17 credits
Students who wish to major in Art or the Art/Photography Concentration are required to complete the following pre-major courses:
ART 120 Introductory Drawing 3 credits
ART 200 History of Art to the Renaissance 4 credits
ART 201 History of Art since the Renaissance 4 credits

AND
Two of the following three courses:
PHO 101* Introduction to Photography 3 credits
ART 130 Introductory Painting 3 credits
ART 150 Introductory Sculpture 3 credits
*Students interested in the Photography Concentration are required to choose PHO 101 as one of the two pre-major required courses.

Major Requirements: 31-35 credits
At least eight credits of art history courses beyond the 100-level.
ART 203 Art of the Ancient World
ART 205 Modern Art in Latin America
ART 207 Nineteenth Century Art
ART 208 Twentieth-Century Art
ART 209 Art and Society in America
ART 210 The Architect and Society
ART 211 History of Printmaking
ART 240 Women and the Fine Arts
ART 300 Medieval and Renaissance Art
ART 301 Baroque Art
ART 303 History of Photography
ART 305** Museum and Gallery Training
ART 308 American Art since 1945
ART 314 Contemporary Issues in Photography
ART 401 Contemporary Art: Ideas and Practices
ART 410 Major Artist I
ART 411 Major Artist II
ART 440 Contemporary Art Theory I
ART 441 Contemporary Art Theory II
At least six credits of studio art courses beyond the 100 level:
ART 220 Intermediate Drawing
ART 225 Portrait Drawing II
ART 230 Intermediate Painting
ART 245 Printmaking
ART 250 Intermediate Sculpture
ART 275 Studio Art Theory and Practice
ART 312 Visiting Artists Projects
ART 320 Advanced Drawing
ART 325 Portrait Drawing III
ART 330 Advanced Painting
ART 345 Intermediate Printmaking
ART 350 Advanced Sculpture
ART 375 Intermediate Studio Art Theory and Practice
ART 445 Advanced Printmaking

AND
An additional 17 credits from art history or studio art courses beyond the 100 level.

AND
Foreign Language Requirement: 0-4 credits
Demonstration of proficiency in a language through the intermediate level, 213 or above.
**ART 305 may only be used once towards fulfilling major requirements.

NOTE: ART 320, ART 325, ART 330, ART 350 and ART 445 may be repeated for credit.

Electives: 26-30 credits
Total Credits Required: 120

II. Bachelor of Arts (BA) in Art with a concentration in Photography

Pre-Major Requirements: 17 credits
Students planning to major in Art with the Photography Concentration must complete the following pre-major courses, some of which may also satisfy general education requirements.
ART 120 Introductory Drawing 3 credits
ART 200 History of Art to the Renaissance 4 credits
ART 201 History of Art since the Renaissance 4 credits
PHO 101 Introduction to Photography 3 credits
ART 130 Introductory Painting 3 credits
ART 150 Introductory Sculpture 3 credits

Major Requirements: 34-38 credits
Students who pursue a BA in Art with a concentration in Photography must successfully complete:
A. Photography Courses 12 credits
PHO 201 Introduction to Darkroom Techniques 3 credits

AND
Nine additional credits of photography courses at or above the 200-level, including one course at the 300- or 400-level.
PHO 206 Digital Photography 3 credits
PHO 215 Historical & Alternative 4 credits
Photographic Processes

PHO 220 Intermediate Photography 3 credits

PHO 230 Color Photography 3 credits

PHO 235 Fashion Photography 3 credits

PHO 240 Documentary Methods in Photography 3 credits

PHO 250 Studio Photography I 3 credits

PHO 305 Photography in New York 3 credits

PHO 307 Art Digital Printing 3 credits

PHO 314 Contemporary Issues in Photography 4 credits

PHO 315 Visiting Artist Workshop 3 credits

PHO 320 The Photographic Portfolio 3 credits

PHO 360 Studio Photography II 3 credits

PHO 365 Conceptual and Aesthetic Concerns of Image Making - 4 credits
Photography III

B. Art History Courses 8 credits
ART 303 History of Photography 4 credits

AND

One additional art history course at or above the 200-level. 4 credits

C. The remaining 14 credits can be chosen from courses in ART and PHO beyond the 100 level. 14 credits

D. Foreign Language Requirement: 0-4 credits

Demonstration of proficiency in a language through the intermediate level, 213 or above.

It is recommended that students complete an internship with an artist/photographer, museum, gallery or foundation.

Electives: 23-27 credits
Total Credits Required: 120

Note: Courses may only be used once to fulfill a requirement area except PHO 315 which may be repeated three times. ART 305 may only be used once towards fulfilling major requirements; it does not fulfill the art history requirement.

Liberal Arts and Sciences Requirement
All studio art and photography courses are non-liberal arts and sciences. Most photography classes are non-liberal arts and sciences, except: PHO 305, PHO 314 and PHO 365.

Honors
To graduate with honors in art a student must have a 3.5 grade point average in art courses and must complete a body of independent work approved by one or more full-time art faculty advisors. The work should be presented in an exhibition if possible. Art history students may undertake the writing of a research paper with the approval and supervision of a faculty adviser.

Bachelor of Fine Arts (BFA) in Art
The Bachelor of Fine Arts (BFA) degree in Art is intended for students who have serious ambitions towards becoming practicing artists and/or photographers who may also aim to further their studies with an advanced degree. It provides intensive instruction in art history, drawing, painting, printmaking, photography, and sculpture as well as a broad liberal arts education. The Bachelor of Fine Arts (BFA) in Art offers concentrations in Photography and Studio Art.

All students initially enroll in the Bachelor of Arts (BA) in Art or the Bachelor of Arts (BA) in Art with a concentration in Photography. Departmental approval for admission to the Bachelor of Fine Arts (BFA) in Art degree is required. Students may apply for admission into the Bachelor of Fine Arts (BFA) in Art degree program providing they fulfill the following requirements:

1. Successful completion of ART 120, and two of the following three studio or photo courses; ART 130, ART 150, or PHO 101. Students must also successfully complete the two foundational Art History courses, ART 200 and ART 201. A cumulative 3.0 GPA in these ART courses must be achieved to qualify as an applicant to the BFA program.

2. A positive evaluation by the CSI studio faculty committee of a portfolio containing 15-20 pieces of the student's artwork comprised of work from pre-major studio classes as well pieces produced independently.

*Students interested in the photography concentration are required to take PHO 101.

Students are strongly advised to complete the 100 level courses and ART 200 and ART 201 within the first 60 credits of their education.

I. Bachelor of Fine Arts (BFA) in Art with a concentration in Photography

Pre-Major Requirements: 17 credits
ART 120 Introductory Drawing 3 credits
ART 200 History of Art to the Renaissance 4 credits
ART 201 History of Art since the Renaissance 4 credits

In addition, students must complete two of the following three courses: 6 credits
PHO 101 Introduction to Photography 3 credits
ART 130 Introductory Painting 3 credits
ART 150 Introductory Sculpture 3 credits

*Students interested in the Photography Concentration must take PHO 101 as one of the two pre-major required courses.

Major Requirements: 41-45 credits
A. Art History Courses 12 credits
ART 401 Contemporary Art: Ideas and Practices 4 credits

And two additional art history courses chosen from the following at or above the 200 level. 8 credits

NOTE: Students are strongly encouraged to take ART 303 to satisfy the art history requirement.

ART 203 Art of the Ancient World
ART 205 Modern Art in Latin America
ART 207 Nineteenth-Century Art
ART 208 Twentieth-Century Art
ART 209 Art and Society in America
ART 210 The Architect and Society
ART 211 History of Printmaking
ART 240 Women and the Fine Arts
ART 300 Medieval and Renaissance Art
ART 301 Baroque Art
ART 303 History of Photography
ART 308 American Art since 1945
ART 314 Contemporary Issues in Photography
ART 401 Contemporary Art: Ideas and Practices
ART 410 Major Artist I
ART 411 Major Artist II
ART 440 Contemporary Art Theory I
ART 441 Contemporary Art Theory II

B. Photography Courses 26 credits
Students enrolled in the BFA must complete at least 26 credits of photography courses beyond the 100-level.
PHO 201 Introduction to Darkroom 3 credits
PHO 202 Intermediate Photography 3 credits
PHO 203 Color Photography 3 credits
PHO 204 Fashion Photography 3 credits
PHO 240 Documentary Methods in Photography 3 credits
PHO 250 Studio Photography I 3 credits
PHO 304 Photography in New York 3 credits
PHO 307 Art Digital Printing 3 credits
PHO 314 Contemporary Issues in Photography 4 credits
PHO 315 Visiting Artist Workshop 3 credits
PHO 320 The Photographic Portfolio 3 credits
PHO 360 Studio Photography II 3 credits
PHO 365 Conceptual and Aesthetic Concerns of Image Making - Photography III 4 credits

C. All students enrolled in the ART BFA must complete the following:
ART 480 Senior Projects in Art and Photography 3 credits

D. Foreign Language Requirement 0-4 credits
Demonstration of proficiency in a language through the intermediate level, 213 or above.

Total Credits Required: 120

II. Bachelor of Fine Arts (BFA) in Art with a concentration in Studio Art

Pre-Major Requirements: 17 credits
ART 120 Introductory Drawing 3 credits
ART 200 History of Art to the Renaissance 4 credits
ART 201 History of Art since the Renaissance 4 credits

In addition, students must complete two of the following three courses:
PHO 101 Introduction to Photography 3 credits
ART 130 Introductory Painting 3 credits
ART 150 Introductory Sculpture 3 credits

Major Requirements: 42-46 credits

A. Art History Courses 12 credits
ART 401 Contemporary Art: Ideas and Practices 4 credits
And two additional art history courses chosen from the following:
ART 203 Art of the Ancient World
ART 205 Modern Art in Latin America

ART 207 Nineteenth-Century Art
ART 208 Twentieth-Century Art
ART 209 Art and Society in America
ART 210 The Architect and Society
ART 211 History of Printmaking
ART 240 Women and the Fine Arts
ART 300 Medieval and Renaissance Art
ART 301 Baroque Art
ART 303 History of Photography
ART 308 American Art since 1945
ART 314 Contemporary Issues in Photography
ART 401 Contemporary Art: Ideas and Practices
ART 410 Major Artist I
ART 411 Major Artist II
ART 440 Contemporary Art Theory I
ART 441 Contemporary Art Theory II

B. Studio Courses 27 credits
Students enrolled in the BFA must complete at least 27 credits of studio art courses beyond the 100-level; selecting courses that fit their chosen emphasis.
ART 220 Intermediate Drawing
ART 225 Portrait Drawing II
ART 230 Intermediate Painting
ART 245 Printmaking
ART 250 Intermediate Sculpture
ART 275 Studio Art Theory and Practice
ART 312 Visiting Artists Projects
ART 320 Advanced Drawing
ART 325 Portrait Drawing III
ART 330 Advanced Painting
ART 335 Intermediate Printmaking
ART 350 Advanced Sculpture
ART 375 Intermediate Studio Art Theory and Practice
ART 445 Advanced Printmaking

C. All students enrolled in the ART BFA must complete the following:
ART 480 Senior Projects in Art and Photography 3 credits

D. Foreign Language Requirement 0-4 credits
Demonstration of proficiency in a language through the intermediate level, 213 or above.

NOTE: ART 320, ART 325, ART 330, ART 350 and ART 445 may be repeated for credit.

Total Credits Required: 120

It is recommended that students complete an internship with an artist/photographer, museum, gallery, or foundation while studying at CSI.

Note: Courses may only be used once to fulfill a requirement area except for PHO 315. This class can be repeated three times.

Liberal Arts and Sciences Requirement
All studio art/photography courses are non-liberal arts and sciences except PHO 101 and PHO 365. The BFA degree requires a minimum of 60 credits in the liberal arts and sciences.

Honors
To graduate with honors in art a student must have a 3.5 grade point average in art courses and must complete a body of independent work approved by one or more full-time art faculty advisors. The work should be presented in an exhibition if possible. Art history students may undertake the writing of a research paper with the approval and supervision of a faculty adviser.
Art Minor

Minor (17-18 credits)
Two different paths may be taken to complete an Art minor:

Path I: Art History

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ART 200</td>
<td>History of Art to the Renaissance</td>
<td>4</td>
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<tr>
<td>ART 201</td>
<td>History of Art since the Renaissance</td>
<td>4</td>
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and at least 10 credits of art history beyond the 100 level:

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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ART 203</td>
<td>Art of the Ancient World</td>
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<td>ART 205</td>
<td>Modern Art in Latin America</td>
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<td>ART 207</td>
<td>Nineteenth-Century Art</td>
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<td>ART 208</td>
<td>Twentieth-Century Art</td>
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<td>ART 209</td>
<td>Art and Society in America</td>
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<td>ART 210</td>
<td>The Architect and Society</td>
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<td>ART 211</td>
<td>History of Printmaking</td>
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<td>ART 240</td>
<td>Women and the Fine Arts</td>
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<td>ART 300</td>
<td>Medieval and Renaissance Art</td>
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<td>ART 301</td>
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<td>ART 303</td>
<td>History of Photography</td>
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<td>ART 305</td>
<td>Museum and Gallery Training</td>
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<td>ART 308</td>
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<td>ART 401</td>
<td>Contemporary Art: Ideas and Practices</td>
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<td>ART 410</td>
<td>Major Artist I</td>
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<td>ART 411</td>
<td>Major Artist II</td>
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<td>ART 440</td>
<td>Contemporary Art Theory I</td>
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<tr>
<td>ART 441</td>
<td>Contemporary Art Theory II</td>
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Path II: Studio Art

Students select three out of the following four courses:

<table>
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<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ART 120</td>
<td>Introductory Drawing</td>
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</tr>
<tr>
<td>ART 130</td>
<td>Introductory Painting</td>
<td>3</td>
</tr>
<tr>
<td>ART 150</td>
<td>Introductory Sculpture</td>
<td>3</td>
</tr>
<tr>
<td>PHO 101</td>
<td>Introduction to Photography</td>
<td>3</td>
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</tbody>
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and at least nine credits of studio art courses beyond the 100 level:

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ART 220</td>
<td>Intermediate Drawing</td>
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<td>ART 445</td>
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Art Courses

(See Photography for photography course descriptions.)

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<th>Course</th>
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<td>ART 120</td>
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A selective examination of the materials and forms of the visual arts -- including painting, sculpture, and architecture -- designed to provide students with a critical and historical framework for evaluating visual experience. The course will combine slide lectures and films with a number of museum and gallery visits. (arts & com.) (FCER)

ART 100       Introduction to the Visual Arts
3 hours; 3 credits

A course designed to familiarize students with the vast artistic patrimony of Rome. Visits to archaeological sites, churches, palaces, museums, and galleries. The course is for the non-art major. It is conducted almost entirely on site. (Offered only at the American University of Rome.)

ART 120       Introductory Drawing
4 hours; 3 credits

This course studies drawing as a primary tool of vision and consequently as a means of apprehending the world around us. The essentials of perspective, anatomy, and drawing from observation are followed by an introduction to the analysis of compositional dynamics. Students may work from the human form, still life, and/or landscape. Studio classes are tutorial by nature and are supplemented by group critiques, outside assignments, museum visits, written papers, and student presentations. Students will become familiar with various drawing media, which may include charcoal, conté crayon, pastel, ink, and graphite. (arts & com.) (TALA) NOTE: This course has a material fee.

ART 125       Portrait Drawing I
4 hours; 3 credits

Basic study of the human head and facial expressions with particular attention to the problems of portraiture. Students are introduced to basic concepts of proportion, perspective, anatomy, and drawing the human head/figure from observation. Various drawing media may be employed, such as: charcoal, pencil, conté crayon, and/or pastel. Studio classes are tutorial by nature and are supplemented by group critiques, outside assignments, museum visits, written papers, and student presentations. NOTE: This course has a material fee.

ART 130       Introductory Painting
4 hours; 3 credits

The course is an introduction to the fundamentals of painting a picture. Students are first familiarized with materials, equipment, and studio maintenance. Basic pictorial concepts such as color, composition, perspective, space, and the picture plane are introduced. Studio classes are tutorial by nature and are supplemented by group critiques, outside assignments, museum visits, written papers, and student presentations. Students choose from a wide variety of unusual still lifes. They allow the student to return to his/her picture repeatedly over several weeks and outside of class time. Prolonged work allows the imagination to generate new possibilities from the initial attempt as the student is made to see as an artist does. (arts & com.) (TALA) NOTE: This course has a material fee.

ART 150       Introductory Sculpture
4 hours; 3 credits

A selective examination of the materials and forms of the visual arts -- including painting, sculpture, and architecture -- designed to provide students with a critical and historical framework for evaluating visual experience. The course will combine slide lectures and films with a number of museum and gallery visits. (arts & com.) (FCER)
An introduction to the fundamentals of creating sculpture. Students work in a variety of sculptural media in conjunction with learning the formal principles and skills relevant to the creation of sculpture and the safe and responsible use of hand tools. Projects are introduced through class presentations, demonstrations and discussion. Studio work helps students to develop an understanding of and competency in material, technical, theoretical and conceptual aspects of sculpture. Media includes wood, stone, mixed-media construction, cardboard, clay, metal, and plaster. Some drawing is required for the development of individual projects. Contemporary and historical works are examined and researched in order to develop and support individual direction. (arts & com.) (TALA) NOTE: This course has a material fee.

ART 200   History of Art to the Renaissance
4 hours; 4 credits
This survey course will trace the development of painting, sculpture, and architecture from their beginnings in the Stone Age to the Early Renaissance. Emphasis will be placed on the relationship between the historical setting and the works themselves. Introduction to the history of the visual arts. (arts & com.) (TALA) NOTE: This course satisfies the College Option.
Prerequisite: ENG 111

ART 201   History of Art after the Renaissance
4 hours; 4 credits
A continuation of ART 200, this survey course traces further developments in the visual arts from the Renaissance to the works of the 20th-century masters. (arts & com.) (TALA) NOTE: This course satisfies the College Option.
Prerequisite: ENG 111

ART 203   Art of the Ancient World
4 hours; 4 credits
An examination of the art and architecture of predynastic Egypt, the Near East, the Aegean, mainland Greece, and Republican and Imperial Rome. While the course is, of necessity, a survey, particular emphasis will be placed on the evolution of the classical tradition. (arts & com.) (TALA) NOTE: This course satisfies the College Option.
Prerequisites: ART 100 or 103 or 104, and ENG 111

ART 205   Modern Art in Latin America
(Also AMS 205)
4 hours; 4 credits
An introduction to the development of modern art in Latin America. We will study the emergence of key art movements in Latin America and how artists participated in and responded to important historical events and social changes across the Americas. How have Latin American artists portrayed the idea of “Latin America” or being “Latino” in their work? Other issues will include: negotiating with their colonial past and with European models of modernity; art and revolution; the question of indigenous art forms and the “popular”; diasporic continuities within Latin America, Latino experience in the United States, and mestizaje (cultural mixing). (arts & com.) (p & d) (TALA) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111; and ART 100 or ART 200 or ART 201

ART 207   Nineteenth-Century Art
4 hours, 4 credits
An analysis of the principal currents of European and American art from the revolutionary period through the origins of modernism in the last years of the century. Topics to be covered include Neoclassicism, Romanticism, Realism, and Impressionism. (arts & com.) (TALA) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111; and ART 100 or 200 or 201

ART 208   Twentieth-Century Art
4 hours, 4 credits
An analysis of the principal developments in art from the end of the 19th century through the present. (arts & com.) (TALA) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111; and ART 100 or 200 or 201

ART 209   Art and Society in America
(Also AMS 209)
4 hours; 4 credits
Three hundred years of American art, studied as an expression of American life. Works of art are viewed in terms of style and also as guides to the complexities of American history and culture. (arts & com.) (TALA) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111; and ART 100 or ART 200 or ART 201 or AMS 101

ART 210   The Architect and Society
4 hours; 4 credits
A selective review of the practice of architecture from antiquity to the present. The course will analyze changing formal and aesthetic concepts in the light of contemporaneous social and economic factors. (arts & com.) (TALA) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111, and ART 100 or 200 or 201

ART 211   History of Printmaking
4 hours; 4 credits
The history of printmaking from its origins in the 15th century to the present. While the main emphasis will be placed on the relation of printmaking to contemporaneous social and economic factors, an effort will be made to define the individual character of such techniques as woodblock-printing, engraving, etching, mezzotint, aquatint, lithography, and screenprinting. The course will encourage connoisseurship by combining slide lectures with visits to museums and graphics studios.
Prerequisites: ENG 111; and ART 100 or 200 or 201

ART 220   Intermediate Drawing
4 hours; 3 credits
Concentrated study of the figure, complex problems in perspective and composition, detailed rendering in light and shade, and work in ink with brush and pen. NOTE: This course has a material fee.
Prerequisite: ART 120

ART 225   Portrait Drawing II
4 hours; 3 credits
Basic study of the human head and facial expressions with particular attention to the problems of portraiture. For intermediate students. NOTE: This course has a material fee.
Prerequisite: ART 125

ART 230 Intermediate Painting
4 hours; 3 credits
Representation of complex textures, problems of color, composition from figurative to abstract, and expression in the medium. NOTE: This course has a material fee.
Prerequisite: ART 130

ART 240 Women and the Fine Arts
(Also WGS 270)
4 hours; 4 credits
This course examines the two-fold relationship of women to the fine arts; their role as subjects and as artists. Topics such as the portrayal of women as goddess, mother, and housewife, and as artist will be undertaken with a view to the social and historical input and implication of this imagery. The circumstances of women artists from the Renaissance to the present will also be considered.
(arts & com.) (p&d) (TALA) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111, and WGS 100 or ART 100, 200 or 201,

ART 245 Printmaking
4 hours; 3 credits
Instruction and practice in the fundamentals of the intaglio process; its relationship to the design and meaning of the print. NOTE: This course has a material fee.
Prerequisites: ART 120 or ART 130

ART 250 Intermediate Sculpture
4 hours; 3 credits
An intermediate sculpture course that reinforces the fundamental processes, techniques and methods employed in creating sculpture. Students develop in-depth studio projects utilizing hand and power tools in a range of materials. Techniques include: modeling, fabricating, enlarging, carving and casting. By semester's end students will demonstrate a high level of competency with tools, their application and formulate studio projects which encompass both the personal and historical perspectives. Students are required to maintain a detailed sketchbook and a mixed-media sketchbook, and to write and present a research paper on a selected sculpture exhibition. NOTE: This course has a material fee.
Prerequisite: ART 150

ART 275 Studio Art Theory and Practice
4 hours; 3 credits
The aim of this course is to open a thorough understanding of two-dimensional organization in painting and drawing and, by extension, of three-dimensional concepts in sculpture. The study will involve a design analysis of selected paintings from the 15th and 16th centuries. Students are expected to produce drawings and paintings based on these explorations. NOTE: This course has a material fee.
Prerequisite: ART 120

ART 300 Medieval and Renaissance Art
4 hours; 4 credits
An attempt to differentiate and define the major stylistic developments in medieval and Renaissance art and architecture and to locate them within the broader context of contemporaneous European culture.
Prerequisites: ENG 111, and ART 100 or 200 or 201

ART 301 Baroque Art
4 hours; 4 credits
An analysis of the Baroque style, which developed in Italy at the beginning of the 17th century and spread throughout Europe. Particular emphasis will be placed on discussion of the varying intellectual, religious, and socio-economic factors that affected such important questions as the role of patronage.
Prerequisites: ENG 111, and ART 100 or 200 or 201

ART 302 Garden Architecture in Italy
3 hours; 3 credits
An examination of the evolution of Italian garden architecture from the late Republican period to Neoclassicism with special emphasis placed on literary sources and with extensive site visits. (Offered only in the Study Abroad program at the Scuola Lorenzo di Medici in Florence.)
Prerequisite: ART 100 or ART 200 or ART 201

ART 303 History of Photography
4 hours; 4 credits
A critical study of the history of photography from its beginning in the early 19th century through contemporary developments. Topics to be covered include the aesthetic relation of form and content, portraiture, the documentary and abstract approaches, and color photography. The primary emphasis will be on photography as an art, but emphasis will be given to the development of photographic equipment, materials, and techniques as they influence the art. Students will utilize slides and books to study the work of major artists. No previous study of photography is necessary.
Prerequisites: ENG 111, and ART 100 or 200 or 201,

ART 305 Museum and Gallery Training
4 hours; 4 credits
Students interested in studio art or art history are given an opportunity to combine theory and practical experience by working with an adviser at the College and in selected museums and private galleries in New York City. Since serious commitment is essential, prospective students will be interviewed by the advisor before registration. Hours will be arranged. This course may be repeated once for credit, with permission of the instructor.
Prerequisites: ENG 111, and ART 100 or 200 or 201

ART 308 American Art since 1945
(Also AMS 308)
4 hours; 4 credits
The course will examine the development of American art since World War II.
Prerequisite: ART 100 or ART 200 or ART 201 or AMS 212 or ART 208
ART 310  Aspects of Renaissance Art  
3 hours; 3 credits  
This course examines the development of European art and architecture from 1400 to 1520, stressing the Italian contribution and focusing particularly on style, iconography, and patronage. (Offered only at the American University of Rome.) NOTE: This course has a material fee. Prerequisites: ENG 111, and ART 100 or 200 or 201.

ART 311  Baroque Art and Architecture  
3 hours; 3 credits  
An analysis of the Baroque style that developed in Italy at the beginning of the 17th century and spread throughout Europe. Particular emphasis will be placed on discussion of the varying intellectual, religious, and socioeconomic factors that affected such important issues as patronage. The role played by the city of Rome will be given particular consideration. (Offered only at the American University of Rome.) Prerequisite: ART 100 or 200 or 201.

ART 312  Visiting Artist Projects  
4 hours; 3 credits  
An overview of the three major artistic disciplines: painting, printmaking, and sculpture. Three visiting artists, one from each discipline, will each instruct a five week segment. Students will be introduced to techniques and theoretical concepts unique to each visiting artist’s discipline. Each visiting artist will assign students readings and a specific project to complete for their respective workshop. Through a combination of the three studio projects, readings, and discussions students will gain an understanding and respect for working in three artistic disciplines. NOTE: This course has a material fee. Prerequisite: ART 120 and (two of the following ART 130 or ART 150 or ART 245).

ART 314  Contemporary Issues in Photography  
(also PHO 314)  
4 hours; 4 credits  
This course will investigate contemporary issues in photography from aesthetic, art historical, and philosophical perspectives. It will be team-taught by an art historian and photographer. Students are strongly advised to take ART 303 prior to enrolling. Prerequisites: ART 100 or ART 200 or ART 201 or PHO 220 and ENG 151.

ART 319  The Role of Art in the Modern World  
3 hours; 3 credits  
A seminar exploring the current ideas and debates regarding art’s role in the world. The class will investigate the nature of what the art activity was and is, as well as what purpose it served in the past and what purpose it serves currently. Oral presentations will be made. Concepts such as modernism, postmodernism, multiculturalism, and deconstruction will be introduced and discussed. Prerequisites: Any 200- or 300-level studio art course and ART 100 or ART 201.

ART 320  Advanced Drawing  
4 hours; 3 credits  
Individual studio projects and advanced figure compositions in all drawing media. This course may be repeated for credit. NOTE: This course has a material fee. Prerequisite: ART 220.

ART 325  Portrait Drawing III  
4 hours; 3 credits  
Basic study of the human head and facial expressions with particular attention to the problems of portraiture. For advanced students. This course may be repeated for credit. NOTE: This course has a material fee. Prerequisite: ART 225.

ART 330  Advanced Painting  
4 hours; 3 credits  
Individual studio projects with emphasis on development of personal direction. This course may be repeated for credit. NOTE: This course has a material fee. Prerequisite: ART 230.

ART 340  Design Workshop I  
4 hours; 3 credits  
Introduces the student to the basic conceptual and executional skills necessary in the field of graphic design. Areas to be covered will include two-dimensional space, color relationships, space relationships, and three-dimensional construction. NOTE: This course has a material fee.

ART 341  Design Workshop II  
4 hours; 3 credits  
More advanced two- and three-dimensional problem solving with emphasis on the technical skills necessary for reproduction. Areas to be covered will include design problems and applications, typography, and methods of reproduction. Prerequisite: ART 340.

ART 345  Intermediate Printmaking  
4 hours; 3 credits  
Development of technical and expressive skills through selected areas of study in one or more of the graphic processes. NOTE: This course has a material fee. Prerequisite: ART 245.

ART 350  Advanced Sculpture  
4 hours; 3 credits  
A continuation of ART 250. An advanced sculpture course that requires students to work closely with the professor to develop individual projects in media of their choice. Students prepare work suitable for submission in a graduate-student portfolio. By semester’s end, students will have the ability to objectively critique and articulate content and vision in one’s work and concretely place it in an historical context. Students are required to maintain a detailed sketchbook that includes artistic vision, and to write and present an in-depth research paper on a selected exhibition of a sculptor. This course may be repeated for credit. NOTE: This course has a material fee. Prerequisite: ART 250.
ART 375 Intermediate Studio Art Theory and Practice 4 hours; 3 credits 
A continuation of the study of two-dimensional systems and concepts. The central focus will be an understanding of the development and structure of Cubism and fragmented patterns. Studies will be made in both black and white and in color. Students are expected to produce drawings and paintings that transpose realist paintings into Cubist manner. NOTE: This course has a material fee. 
Prerequisite: ART 275

ART 401 Contemporary Art: Ideas and Practices 4 hours; 4 credits 
This course will cover the major transformations in contemporary art. Students will study developments in traditional media alongside the proliferation of new media practices. The class will address theoretical ideas and issues that have informed the work of contemporary artists and look at key writings by critics, art historians, and artists themselves. 
Prerequisites: ART 200, ART 201 and a 300-level studio art class or a 300-level photography class

ART 410 Major Artist I 4 hours; 4 credits 
This course will explore the work of an artist of established historical importance as well as the context in which the artist worked and the art-historical and art-theoretical issues bearing on our effort to understand that artist. May be repeated for credit with the approval of the instructor. 
Prerequisites: ENG 151; and ART 200 and ART 201 and a 300-level art history course

ART 411 Major Artist II 4 hours; 4 credits 
This course will explore the work of an artist of established historical importance as well as the context in which the artist worked and the art-historical and art-theoretical issues bearing on our efforts to understand that artist. May be repeated for credit with the approval of the instructor. 
Prerequisite: ENG 151; and ART 200 and ART 201 and a 300-level art history course

ART 445 Advanced Printmaking 4 hours; 3 credits 
Individual projects in one or more of the printmaking processes. Emphasis on the development of individual style with a mature level of expression and the compiling of a portfolio of prints. This course may be repeated for credit. NOTE: This course has a material fee. 
Prerequisite: ART 345

ART 475 Advanced Studio Art Theory and Practice 4 hours; 3 credits 
This course will probe the inter-relationship of realist and abstract painting. Realism and abstraction will be compared and explored for the elements they share as well as for their differences. From a simple still life the student will develop studies that result in two distinct series of paintings, one abstract, the other realist. This course may be repeated for credit. NOTE: This course has a material fee. 
Prerequisite: ART 375

ART 480 Senior Project in Art and Photography 4 hours; 3 credits 
Open to Art and Photography majors who wish to complete their senior project exhibition. This course advances students in making the transition from college to the professional world of art-making. Prior to enrolling in this course, all students must have an existing body of highly developed studio work in painting, drawing, printmaking, sculpture, photography or installation. Through reading assignments and lectures, students will articulate, in written and oral forms, the aesthetic components of their creative practice while critically engaging with the work of their peers. NOTE: This course has a material fee. 
Prerequisite: ART 200 and ART 201 and senior standing 
Corequisite: Any 300 level studio art or 300 level photography class

Photography Minor (Minor) 
Department of Performing and Creative Arts, Center for the Arts (1P), Room 203 
Chairperson and Professor George Emilio Sanchez 
Coordinator: Professor Beatrix Reinhardt, Center for the Arts (1P), Room 209

Pre-Minor Requirements: 6 credits 
PHO 101 Introduction to Photography 3 credits 
PHO 201 Introduction to Darkroom Techniques 3 credits

Minor Requirements: 12 credits 
At least 12 credits in photography at or above the 200 level. 
The faculty strongly recommends at least one course that emphasizes the theoretical or historical underpinnings of photography chosen from: PHO 220, PHO 365, ART 303 (History of Photography), PHO 314 /ART 314.
Photography Courses

PHO 101  Introduction to Photography
4 hours; 3 credits
An introduction to the practice of photography. It is an introduction to photographic seeing and the visual grammar of photography. The class combines basic design problems, exercises in seeing elements of the medium, and the history and development of photography as an art form as well as basic principles and techniques of camera, photographic materials, processes, and techniques for image processing and print production are covered. (arts & com) (TALA) NOTE: This course is a prerequisite for all other photography courses. NOTE: This course has a material fee.

PHO 201  Introduction to Darkroom Techniques
4 hours; 3 credits
An introduction to the practice of darkroom-based black and white photography. A study of the history and development of black and white photography as an art form as well as basic principles and techniques of 35mm film camera and darkroom practice will be covered, including the use of a variety of films, developers, and papers. The course addresses mastery of materials as a creative tool. Students are required to provide a 35mm manual SLR film camera. NOTE: Student must demonstrate through a portfolio a good understanding about the basics of camera techniques. NOTE: This course has a material fee. Prerequisite: PHO 101

PHO 205  Historical and Alternative Photographic Processes
4 hours; 4 credits
Exploration and practice of historic and new methods and materials beyond the standard silver gelatin print. Students will learn to make pinhole cameras, paper negatives, wet-collodion negatives and ambrotypes, digital negatives for contact printing and different hand-coated printing processes. These practices will be put in historical and contemporary contexts by the introduction of different photographic movements, historical events, and through looking at the work of photographers using the processes. NOTE: This course has a material fee. Prerequisite: PHO 101 and PHO 201

PHO 220  Intermediate Photography
4 hours; 3 credits
The course combines an emphasis on interpretive camera and darkroom techniques with a thoughtful approach to the making of a photograph. Development of visual perception and individual style are emphasized. Included are fiber-based paper printing, toning, bleaching, pushed film processing, selective contrast, and an introduction to color. NOTE: This course has a material fee. Prerequisite: PHO 101 and PHO 201

PHO 230  Color Photography
4 hours; 3 credits
An introduction to expressive color photography, exploring the technical, conceptual, and aesthetic uses of color photography. This class provides an in-depth study of the dynamics of color as a creative tool. Projects will explore the creative and technical possibilities of color film, and introduce students to computer tools that manipulate and enhance photographic images. Students will learn the skills to retouch and enhance these images from varied sources in order to create high-quality digital outputs. Assignments are designed to help master basic techniques and expand the photographer's creative horizons. NOTE: This course has a material fee. Prerequisite: PHO 101 and PHO 201

PHO 240  Documentary Methods in Photography
4 hours; 3 credits
An in-depth study of approaches and styles of documentary photography, and the concepts of narrative, sequence, story, and series, and their journalistic and artistic applications. An examination of how other photographers have employed these conventions in their work will be explored. Students will develop a body of work based on what they have learned. NOTE: This course has a material fee. Prerequisite: PHO 101 and PHO 201

PHO 250  Studio Photography I
4 hours; 3 credits
Photography studio techniques. Students will work both in large and small formats, utilizing tungsten and studio strobe lighting. Techniques of still life, portraiture, fashion, and figure photography will be stressed. NOTE: This course has a material fee. Prerequisite: PHO 201

PHO 305  Photography in New York
4 hours; 3 credits
An exploration of New York City and its boroughs as a classroom for learning about the practice, art, and visual language of photography. The course will consist primarily of field trips to photography exhibitions and collections in New York City and involve the study and discussion of both historical and contemporary photography. Students will be required to participate in discussions, exchange thoughts and ideas, keep a detailed journal of thoughts and impressions from all field trips, complete assigned
readings and write several reviews and research papers and give oral presentations about research. Students will produce a photographic portfolio of 20 photographs by the end of the semester. NOTE: It is recommended that students take an art history class prior to enrolling in PHO 305. NOTE: This course has a material fee. Prerequisites: PHO 101 and a minimum of one PHO 200-level course or permission of photography coordinator.

PHO 307  Art Digital Printing
4 hours; 3 credits
To further the understanding and control of digital color in making high quality fine art prints. Making exhibition-quality digital prints takes time and expertise. Students learn ways to bring out detail and fine-tune color and contrast in specific areas of an image to improve its overall quality. Topics include masking techniques, blending mode options, advanced sharpening techniques, noise reduction methods, and various means of retouching. A hands-on interactive approach with shared print production and class critiques will enable students to build a final portfolio that is both artistically and technically cohesive. This class will introduce large-scale printing. We recommend that students take PHO 220 or PHO 230 prior to enrolling. NOTE: This course has a material fee. Prerequisite: PHO 101 and PHO 201.

PHO 314  Contemporary Issues in Photography
(Also ART 314)
4 hours; 4 credits
This course will investigate contemporary issues in photography from aesthetic, arthistorical, and philosophical perspectives. It will be team-taught by an art historian and photographer. Students are strongly advised to take ART 303 prior to enrolling. NOTE: This course has a material fee. Prerequisites: ART 100 or ART 200 or ART 201 or PHO 220 and ENG 151.

PHO 315  Visiting Artist Workshop
4 hours; 3 credits
This course will consist of three individual workshops with fine art photographers who will each teach a four-to-five-week segment. Students will get acquainted with their work and have the opportunity to have in-depth discussions with the artists about their motivation, research, procedure, and execution processes used in creating their respective bodies of work. Students will be introduced to specific technical processes, readings, and theoretical concepts that each artist considers fundamental to his/her work process. Each workshop will conclude with a visual assignment that addresses the specific issues and techniques discussed. This course may be repeated for credit. NOTE: This course has a material fee. Prerequisites: PHO 201 and PHO 220.

PHO 320  The Photographic Portfolio
4 hours; 3 credits
Goals and marketing for photography. The definition and preparation of a personal photographic portfolio. A survey of ideas leading to a photographic direction, and the techniques necessary to realize the portfolio needed to pursue that direction. This course may be repeated for credit. NOTE: This course has a material fee. Prerequisite: Any 200-level PHO course.

PHO 360  Studio Photography II
4 hours; 3 credits
Methodology of producing pictures under totally controlled conditions. Lighting and camera techniques for portraiture, still life, and illustrations will be stressed. Both artistic concerns and professional studio practices are covered. NOTE: This course has a material fee. Prerequisite: PHO 250.

PHO 365  Conceptual and Aesthetic Concerns of Image Making – Photography III
4 hours; 4 credits
An appreciation of the intellectual bases of photographic works and their theoretical ramifications. Furthermore, it will expand the student’s critical and aesthetical understanding of the photographic image beyond the standard silver gelatin print. The course shall provide students with the intellectual tools to develop their own individual work and to critically determine if they have done so in a meaningful and substantial manner. Students will study a spectrum of motivations and expressions that exist in the field of photography and apply the gained knowledge to their work. NOTE: This course has a material fee. Prerequisites: PHO 201 and any other 200-level PHO course.

Astronomy Courses

AST 100  Contemporary Theories of the Solar System
3 hours; 3 credits
The nature of the sun, moon, planets, comets, meteors, and meteorites; early and modern history of the Earth; the origin of the solar system; evolution of life on Earth and in the cosmos. Field trips and/or day and evening astronomical observation sessions will be required. Students may not receive credit for both INS 100 and AST 100. (Science) (FSWR) NOTE: This course has a material fee. Prerequisite: MTH 020 or an appropriate score on the CUNY Mathematics Assessment Test. Corequisite: AST 101.

AST 101  Planetary Laboratory
2 laboratory hours; 1 credit
Experiments on the properties of light and telescopes, the celestial sphere and time, eclipses, planetary orbits, meteorites, sunspots, lunar geography, and observation work. (Science) NOTE: This course has a material fee. Corequisite: AST 100.

AST 102  Contemporary Theories of the Universe
3 hours; 3 credits
A presentation of the galaxy, atomic structure, star populations, nuclear energy, stellar evolution, galactic structure, and the universe. Field trips and/or day and evening astronomical observation sessions will be required. (Science) (RLPR) NOTE: This course has a material fee.
Prerequisite: MTH 020 or an appropriate score on the CUNY Mathematics Assessment Test
Corequisite: AST 103

AST 103  Galactic Laboratory
2 laboratory hours; 1 credit
Experiments on atomic properties of matter, stellar atmosphere, variable and nova stars, galaxy classification, stellar clusters, and observation work. (science) NOTE: This course has a material fee.
Corequisite: AST 102

AST 105  Observational Astronomy
3 class hours, 2 laboratory hours; 4 credits
Topics covered are aligning and using computerized telescopes; celestial coordinate systems; time keeping; observations of the planets, moon, sun, asteroidal motions, and variable stars; astrophotography with CCD imaging cameras; photometric techniques. Day and evening astronomical observation sessions will be required beyond regularly scheduled hours. (science) NOTE: This course has a material fee.
Prerequisite: MTH 020 or an appropriate score on the CUNY Mathematics Assessment Test, AST 100 or AST 102

AST 108  Survey of the Universe
3 hours; 3 credits
A laboratory-embedded course covering topics exploring major concepts in our knowledge of the universe. Experiments and topics chosen from: the nature of the night sky, predicting celestial events, seasons, motions of the sun and moon, the nature of time and its measurement, the laws of motion and the force of gravity, the nature of light, the sun's rotation and energy, radiometric dating, asteroid detection, planetary materials, atomic spectra, galaxy classification, and Hubble's Law. Field trips, term paper, and/or day and evening astronomical observation sessions will be required. (science) (RLPR)
Prerequisite: MTH 020 or higher

AST 110  Life in the Universe
3 hours; 3 credits
An introduction to astrobiology. Topics may include: life beyond the Earth; matter and energy, life on Earth (the basic building blocks of life, cells, DNA, the origins of life and evolution); life in our solar system; Mars; Jovian moons; the habitable zone around stars; the search for extraterrestrial intelligence; and interstellar travel. Field trips and/or day and evening astronomical observation sessions will be required. (science) (RLPR)
Prerequisite: MTH 020 or higher
Corequisite: AST 111

AST 111  Life in the Universe Laboratory
2 hours; 1 credit
Experiments and activities on the nature of science, remote sensing, nature of life, genes, extreme environments, water and life, terraforming, habitable zones around stars, discovering extra-solar planets, the Drake equation, and aliens? (science) (FSWR)
Prerequisite: MTH 020 or higher
Corequisite: AST 110

AST 120  Space Science I
3 class hours, 2 laboratory hours; 4 credits
Observations and telescopes. The structure and origin of the solar system, the sun-Earth connection, and space physics: space weather, comparative planetology. Laboratory emphasis will be on quantitative measures of celestial positions (i.e., astrometry, as well as solar system photometry). Field trips and/or day and evening astronomical observation sessions will be required. (science) (RLPR) (STEM)
Pre- or corequisite: MTH 230 or MTH 231

AST 160  Space Science II
3 class hours, 2 laboratory hours; 4 credits
Energy transport; stellar structure and evolution and origins; interstellar medium and star birth; galactic and extragalactic astronomy and cosmology; the Big Bang and beyond. Laboratory emphasis will be on stellar photometry and spectroscopy. Field trips and/or day and evening astronomical observation sessions will be required. (science) (FSWR) (STEM)
Prerequisite: AST 120
Corequisite: MTH 232

AST 230  Planetary Geology
(Also GEO 230)
3 class hours; 2 laboratory hours; 4 credits
The study of the geology of the celestial bodies such as the planets and their moons, asteroids, comets, and meteorites. Specific topics covered are: determining the internal structure of the terrestrial planets, planetary volcanism, impact craters, fluvial and aeolian processes, structures of the giant planets and their moons, make-up of the minor bodies of the solar system, such as asteroids, the Kuiper Belt, and comets, and Exoplanets (The nature of planets found beyond our Solar System). A Term paper, Field trips and/or day and evening astronomical observation sessions will be required.
Prerequisite: (GEO 115 and GEO 116 or GEO 100 and GEO 101) and MTH 123

AST 396  Introduction to Astrophysics
3 hours; 3 credits
Celestial mechanics, electromagnetic radiations; their detectors and remote sensing; special relativity, stellar pulsation, general relativity and black holes, the nature and evolution of galaxies, origins, Newtonian and relativistic cosmology. Field trips and/or day and evening astronomical observation sessions will be required. NOTE: This course has a material fee.
Prerequisite: AST 160

Biochemistry

(Bachelor of Science, Minor)
Department of Biology
Chairperson and Professor Alejandra Del Carmen Alonso
Department of Chemistry
Chairperson and Professor Qiao-Sheng Hu, Building 6S, Room 235

A degree in Biochemistry prepares students interested in working in the fast-growing biotechnology field; in the
chemical and pharmaceutical industries; in research, product development, marketing, and sales; and in such related fields as teaching. For students who wish to pursue graduate study in the sciences or enter professional schools (medicine, dentistry, optometry, pharmacy), a BS degree in Biochemistry is viewed quite favorably by admissions committees.

Biochemistry (BS)

The Biochemistry Bachelor of Science degree program offers two tracks. Students majoring in Biochemistry must complete the following pre-major and major requirements. These courses may also be used to satisfy general education requirements. A detailed guide to course choices for Biochemistry and Chemistry majors is available from the Department of Chemistry.

Pre-Major Requirements: 38 credits

CHM 141 General Chemistry I 3 credits
CHM 121 General Chemistry I Laboratory 1 credit
CHM 142 General Chemistry II 3 credits
CHM 127 General Chemistry II Laboratory 1 credit
BIO 170 General Biology I 3 credits
BIO 171 General Biology I Laboratory 1 credit
BIO 180 General Biology II 3 credits
BIO 181 General Biology II Laboratory 1 credit
BIO 205 General Physiology 4 credits
PHY 120 General Physics I 3 credits
PHY 121 General Physics I Laboratory 1 credit
PHY 160 General Physics II 3 credits
PHY 161 General Physics II Laboratory 1 credit
Calculus sequence chosen from the following:
MTH 229 Calculus Computer Laboratory 10 credits
MTH 230 Calculus I and Pre-Calculus or
MTH 231 Analytic Geometry and Calculus I and
MTH 232 Analytic Geometry and Calculus II and
MTH 233 Analytic Geometry and Calculus III

Major Requirements: 38-44 credits

Track 1: 43-44 credits

This track will lead to an ACS Accredited BS in Biochemistry.

CHM 240 Analytical Chemistry 4 credits
CHM 250 Organic Chemistry I 4 credits
CHM 256 Organic Chemistry II 4 credits
CHM 360 Inorganic Chemistry 4 credits
CHM 370 Biochemistry I
CHM 370/376 Biochemistry II 4 credits
BIO 370/376 Cell Biology 4 credits
CHM 330 Physical Chemistry: Equilibria 4 credits
CHM 336 Physical Chemistry: Processes 4 credits

and

CHM 337 Experimental Methods in Physical Chemistry 4 credits
or
CHM 377 Biochemistry Laboratory 4 credits
and
BIO 352 Cell Biology 4 credits
One biology electives chosen from: 3-4 credits
BIO 312 Genetics
BIO 322* Evolution
BIO 326* Introduction to Bioinformatics and Genomics
BIO 327 Molecular Biology
BIO 332 Advanced Physiology
BIO 365* Principles of Neurobiology
BIO 415 Mathematical Biology
BIO 428* Plant Physiology
BIO 442 Immunology
BIO 454* Advanced Cell Biology
BIO 460* Experimental Methods in Advanced Genetics

*Requires pre or corequisites not in the premajor requirements.

Track 2: 38-40 credits

CHM 240 Analytical Chemistry 4 credits
CHM 250 Organic Chemistry I 4 credits
CHM 256 Organic Chemistry II 4 credits
CHM 370/376 Biochemistry II 4 credits
BIO 370 Biochemistry II 4 credits
CHM 376/
BIO 376 4 credits
CHM 330 Physical Chemistry: Equilibria 4 credits
CHM 336 Physical Chemistry: Processes 4 credits

and

CHM 337 Experimental Methods in Physical Chemistry 4 credits
or
CHM 377 Biochemistry Laboratory 4 credits
and
Two biology electives chosen from: 6-8 credits
BIO 312 Genetics
BIO 322* Evolution
BIO 326* Introduction to Bioinformatics and Genomics
BIO 327 Molecular Biology
BIO 332 Advanced Physiology
BIO 352 Cell Biology
BIO 365* Principles of Neurobiology
BIO 415 Mathematical Biology
BIO 428* Plant Physiology
BIO 442 Immunology
BIO 454* Advanced Cell Biology
BIO 460* Experimental Methods in Advanced Genetics

*Requires pre or corequisites not in the premajor requirements.

Electives: 0-2 credits

All Biochemistry majors are encouraged to take Independent Study (BIO 591-594 or CHM 591-594) to facilitate laboratory research as an elective.
Honors
A student may be eligible for admission to the honors program in Biochemistry if he or she enters the senior year with a 3.5 grade point average. With the concurrence of a faculty supervisor, the student must submit (by September 15) a one-page summary of a proposed research project. The chairperson of the department and the faculty supervisor will appoint a three-member committee to evaluate and/or modify the proposal (by October 15), then grant or deny admission to the honors program.

While pursuing honors research the student may receive eight credits for Independent Study (BIO 594 or CHM 594), four each in the fall and spring semesters. Additionally, it is highly recommended that the student begin work on the project during the summer or spring semester that immediately precedes the senior year. Progress of the research will be monitored as follows: (1) the student will meet with his or her committee by November 1 of the first semester; (2) the student will submit a five-page progress report by January 15; (3) the committee will recommend for or against continuation in the program by February 1; (4) the student will submit a thesis, following the style of major journals, by May 1; (5) the student will present an oral defense of the thesis to the committee, by the end of the final exam period.

The deadline dates noted above are based on a June graduation date, but corresponding guidelines may be designed for January graduation. In either case, it is expected that completion of the honors program will require at least one year of student research.

Biochemistry Minor

Minor

Prerequisite Courses:
CHM 141, 121, 142, 127 8 credits
BIO 170, 171, 180, 181 8 credits

Requirements
CHM 240 Analytical Chemistry or
CHM 340 Instrumental Analysis 4 credits
CHM 250 Organic Chemistry I 4 credits
CHM 256 Organic Chemistry II 4 credits
CHM 370 Biochemistry I 4 credits

Biochemistry Courses

Courses in biochemistry are listed under Biology and Chemistry.

Biology

(Bachelor of Science, Medical Technology, Secondary Education Preparation (Biology 7-12), Master of Science - see Graduate Catalog for information on graduate programs)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>BIO 352</td>
<td>Cell Biology</td>
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<tr>
<td>BIO 352 OR</td>
<td>Ecology</td>
<td>4</td>
</tr>
<tr>
<td>BIO 360</td>
<td>Biochemistry I</td>
<td>4</td>
</tr>
<tr>
<td>BIO 370</td>
<td>Experimental Methods in Cell Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIO 372</td>
<td>Cell Biochemistry</td>
<td>4</td>
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<tr>
<td>BIO 372 OR</td>
<td>Mathematical Biology</td>
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<tr>
<td>BIO 415</td>
<td>Advanced Methods in Cell Biology</td>
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<tr>
<td>BIO 424</td>
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<tr>
<td>BIO 450</td>
<td>Experimental Methods in Behavioral Biology</td>
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<td>BIO 452</td>
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<td>BIO 454</td>
<td>Experimental Methods in Cell Biochemistry</td>
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<td>BIO 456</td>
<td>Experimental Methods in Advanced Genetics</td>
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<tr>
<td>BIO 460</td>
<td>Advanced Methods in Animal Physiology</td>
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<tr>
<td>BIO 460 OR</td>
<td>Mathematical Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIO 476</td>
<td>Analytical Geometry and Calculus I</td>
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</tr>
<tr>
<td>PHY 116</td>
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<td>CHM 141</td>
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<td>CHM 121</td>
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<tr>
<td>CHM 142</td>
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<td>CHM 127</td>
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<td>CHM 250</td>
<td>Organic Chemistry I</td>
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<tr>
<td>CHM 256</td>
<td>Organic Chemistry II</td>
<td>4</td>
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<tr>
<td>CSC 126</td>
<td>Introduction to Computer Science</td>
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<td>CSC 211</td>
<td>Intermediate Programming</td>
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<td>CSC 326</td>
<td>Information Structures</td>
<td>4</td>
</tr>
<tr>
<td>CSC 424</td>
<td>Database Management Systems</td>
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2. Ecology, Evolution, and Behavioral Biology: 86-87 credits

D. Required courses 26-27 credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tr>
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<td>BIO 312</td>
<td>Genetics</td>
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<td>BIO 322</td>
<td>Evolution</td>
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<td>BIO 360</td>
<td>Ecology</td>
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<tr>
<td>BIO 450</td>
<td>Experimental Methods in Animal Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 452</td>
<td>Experimental Methods in Behavioral Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 456</td>
<td>Experimental Methods in Ecology</td>
<td>3</td>
</tr>
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</table>

One additional course listed in another track and not listed here 3-4 credits

One advanced six-hour laboratory course from the following: 3 credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>BIO 424</td>
<td>Molecular Biology and Biotechnology Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>BIO 454</td>
<td>Advanced Methods in Cell Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIO 458</td>
<td>Experimental Methods in Cell Biochemistry</td>
<td>4</td>
</tr>
<tr>
<td>BIO 460</td>
<td>Experimental Methods in Genetics</td>
<td>4</td>
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Six Biology electives 23-24 credits

<table>
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<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BIO 240</td>
<td>Biology of Disease</td>
<td>4</td>
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</table>

E. Required related science courses: 24 credits

<table>
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<th>Course Code</th>
<th>Course Title</th>
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</tr>
</thead>
<tbody>
<tr>
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<td>Physics I</td>
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<td>PHY 120</td>
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<td>PHY 121</td>
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<tr>
<td>CHM 141</td>
<td>General Chemistry I</td>
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<td>CHM 121</td>
<td>General Chemistry I Lab</td>
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<td>CHM 142</td>
<td>General Chemistry II</td>
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<td>CHM 127</td>
<td>General Chemistry II Lab</td>
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<td>CHM 250</td>
<td>Organic Chemistry I</td>
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<tr>
<td>CHM 256</td>
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<tr>
<td>CHM 256</td>
<td>Organic Chemistry I</td>
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</table>

3. Molecular, Cellular, and Developmental Biology 78-79 credits

D. Required courses 30-31 credits

<table>
<thead>
<tr>
<th>Course Code</th>
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</tr>
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<tbody>
<tr>
<td>BIO 205</td>
<td>General Physiology</td>
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<td>BIO 312</td>
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<td>4</td>
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<tr>
<td>BIO 324</td>
<td>Developmental Biology</td>
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<td>BIO 327</td>
<td>Molecular Biology</td>
<td>4</td>
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<tr>
<td>BIO 352</td>
<td>Cell Biology</td>
<td>4</td>
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<tr>
<td>BIO 370</td>
<td>Biochemistry I</td>
<td>4</td>
</tr>
<tr>
<td>BIO 372</td>
<td>Cell Biochemistry I</td>
<td>4</td>
</tr>
</tbody>
</table>

One additional course listed in another track and not listed here 3-4 credits

One advanced six-hour laboratory course from the following: 3 credits

<table>
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<tr>
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</table>

Six Biology electives 23-24 credits

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</thead>
<tbody>
<tr>
<td>BIO 240</td>
<td>Biology of Disease</td>
<td>4</td>
</tr>
</tbody>
</table>
BIO 314 General Microbiology 4 credits
BIO 318 Histology 4 credits
BIO 322 Evolution 4 credits
BIO 325 Diagnostic Molecular Biology 4 credits
BIO 326 Introduction to Bioinformatics 4 credits and Genomics
BIO 332 Advanced Physiology 4 credits
BIO 335 Gene Regulatory Systems 4 credits
BIO 346 General Virology 3 credits
BIO 376 Biochemistry II 4 credits
BIO 420 Comparative Endocrinology 4 credits
BIO 425 Computational Molecular Biology 4 credits
BIO 434 Comparative Physiology 4 credits
BIO 442 Immunology 4 credits
BIO 443 Scanning Electronic Microscopy and X-ray Microanalysis
BIO 594 Biology Independent Study* 4 credits
*Requires approval of the chairperson to be credited toward the major. BIO 594 may only be credited once toward the major.

E. Required related science courses:

PHY 116 Physics I 4 credits
OR
PHY 120 General Physics I 3 credits
PHY 121 General Physics I Laboratory 1 credit
AND
PHY 156 Physics II 4 credits
OR
PHY 160 General Physics II 3 credits
PHY 161 General Physics II Laboratory 1 credit
AND

CHM 141 General Chemistry I 3 credits
CHM 142 General Chemistry II 3 credits
CHM 127 General Chemistry II Lab 1 credit
CHM 250 Organic Chemistry I 4 credits
CHM 256 Organic Chemistry II 4 credits

D. Required courses 34-35 credits

BIO 205 General Physiology 4 credits
BIO 312 Genetics 4 credits
BIO 324 Developmental Biology 4 credits
BIO 352 Cell Biology 4 credits
BIO 365 Principles of Neurobiology 4 credits
AND
BIO 370 Biochemistry I
OR
BIO 372 Cell Biochemistry I 4 credits
Two additional courses listed in another track and not listed here. 7-8 credits

One advanced six-hour laboratory course from the following: 3 credits
BIO 424 Molecular Biology and Biotechnology Laboratory
BIO 450 Experimental Methods in Animal Physiology
BIO 452 Experimental Methods in Behavioral Biology and Genomics
BIO 454 Advanced Methods in Cell Biology
BIO 458 Experimental Methods in Cell Biochemistry
BIO 460 Experimental Methods in Genetics

Six Biology electives 24 credits
BIO 240 Biology of Disease 4 credits
BIO 314 General Microbiology 4 credits
BIO 318 Histology 4 credits
BIO 332 Advanced Physiology 4 credits
BIO 335 Gene Regulatory Systems 4 credits
BIO 338 Behavioral Biology 4 credits
BIO 420 Comparative Endocrinology 4 credits

BIO 434 Comparative Physiology 4 credits
BIO 442 Immunology 4 credits
BIO 443 Scanning Electronic Microscopy and X-ray Microanalysis
BIO 594 Biology Independent Study* 4 credits
*Requires approval of the chairperson to be credited toward the major. BIO 594 may only be credited once toward the major.

5. Health Science 83-84 credits

D. Required courses 40 credits

BIO 150 Human Anatomy and Physiology I 4 credits
BIO 160 Human Anatomy and Physiology II 4 credits
BIO 205 General Physiology 4 credits
BIO 240 Biology of Disease 4 credits
BIO 312 Genetics 4 credits
BIO 314 General Microbiology 4 credits
OR
BIO 350 Microbiology and Cellular Pathology 3 credits
BIO 351 Microbiology and Cellular Pathology Laboratory 1 credit
and
BIO 327 Molecular Biology 4 credits
BIO 352 Cell Biology 4 credits
CSC 102 Computers for Today 4 credits

Six Biology electives 19-20 credits

BIO 318 Histology 4 credits
BIO 322 Evolution 4 credits
BIO 324 Developmental Biology 4 credits
BIO 332 Advanced Physiology 4 credits
BIO 335 Gene Regulatory Systems 4 credits
BIO 346 General Virology 3 credits
BIO 365 Principles of Neurobiology 4 credits

BIO 370 Biochemistry
OR
BIO 372 Cellular Biochemistry 4 credits

BIO 420 Comparative Endocrinology 4 credits
BIO 434 Comparative Physiology 4 credits
BIO 442 Immunology 4 credits
BIO 443 Scanning Electronic Microscopy and X-ray Microanalysis
BIO 594 Biology Independent Study* 4 credits
*Requires approval of the chairperson to be credited toward the major. BIO 594 may only be credited once toward the major.
toward the major.

E. Required related science courses: 24 credits

**PHY 116** Physics I 4 credits
**OR**

**PHY 120** General Physics I 3 credits
**PHY 121** General Physics I Laboratory 1 credit
**AND**

**PHY 156** Physics II 4 credits
**OR**

**PHY 160** General Physics II 3 credits
**PHY 161** General Physics II Laboratory 1 credit
**AND**

**CHM 141** General Chemistry I 3 credits
**CHM 121** General Chemistry I Lab 1 credit
**CHM 142** General Chemistry II 3 credits
**CHM 127** General Chemistry II Lab 1 credit
**CHM 250** Organic Chemistry I 4 credits
**CHM 256** Organic Chemistry II 4 credits

**Total Credits Required:** 128

With the permission of the program coordinator, BIO 150 and BIO 160 Anatomy and Physiology I and II may be substituted for BIO 170 and BIO 171 General Biology I and Laboratory, but BIO 150 and BIO 160 may not be used to satisfy the Scientific Analysis requirement in general education.

A student who has educational background or work experience that may be equivalent to the stated pre- or co-requisite for a biology course should contact the chairperson of the Biology Department. If it is determined that a student has the appropriate background, a course requirement waiver will be issued.

**Honors**

The honors program in Biology is available to eligible seniors with a 3.5 grade point average or better. The program requires a minimum of one year to complete. The student may receive up to eight credits for independent study (BIO 594) while completing the honors program. However, students do not automatically gain entrance into the honors program by registering for independent study.

To be accepted into the honors program, the student must first obtain approval from a full-time member of the department to carry out an honors research project. This faculty member will then serve as the student's advisor. Thereafter, the student will prepare and present a detailed written preliminary proposal of the honors research project for approval to a three-member departmental committee, consisting of the faculty advisor and two other faculty members. The committee will evaluate the proposal. After an oral presentation by the student and upon the recommendation of the committee, the student will be accepted into the program. The student will meet with his or her committee midway through the first semester for evaluation of the project. In addition, the student will submit a written progress report to the committee at the end of the first semester. On the basis of this report, the committee will decide whether the student should proceed further. If the student does not continue in the honors program, he or she may still acquire the credits for independent study.

When the research is completed, the student is required to write up the research in the form of a thesis that will be evaluated at early and final stages by the committee. The thesis format must adhere to that used by leading biological journals, or as outlined in the AIBS style manual. The ultimate decision on thesis format lies with the committee.

Because it will take at least one year to complete the honors program in Biology, it is suggested that the student begin work during the summer immediately following the junior year.

**Biology 7-12 (BS)**

**Biology/Adolescence Education, grades 7-12**

Study of the biological sciences is a major requirement for students who wish to specialize in such fields as plant or animal research, and for students who plan to enter various health professions, such as medicine, dentistry, medical technology, physician assistant, and physical therapy; research in fields from cells and molecules to organisms to ecosystems, and education at both the high school and collegiate levels. The Biology/Adolescence Education, grades 7-12 prepares students for a career in biology education.

**Pre-Major Requirements: 16-19 credits**

A. All four of the following courses:

**BIO 170** General Biology I 3 credits
**BIO 171** General Biology I Laboratory 1 credit
**BIO 180** General Biology II 3 credits
**BIO 181** General Biology II Laboratory 1 credit

B. One of the following two units: 4-7 credits

**MTH 230** Calculus I with Pre-Calculus 6 credits
**MTH 229** Calculus Computer Laboratory 1 credit

**or**

**MTH 231** Analytical Geometry and Calculus I 3 credits
**MTH 229** Calculus Computer Laboratory 1 credit

C. One of the following two courses: 4 credits

**BIO 272** Biometrics 4 credits
**MTH 214** Applied Statistics Using Computers 4 credits

D. GPA Requirements

A minimum grade of C is required for a biology course to be used to satisfy a prerequisite for a biology course required for the major requirements for the BS in Biology. To qualify for graduation, students must have at least a 2.5 grade point average (GPA) in the courses that make up the major. Students wishing to be recommended by the College for certification must successfully complete the education sequence requirements, as well as the biology major requirements. To complete the education sequence in two years it must be begun by the beginning of the junior year. Students must have a minimum cumulative average of 3.0 to be admitted to all adolescence education courses.

**Biology Major Requirements: 86-87 credits**

A minimum grade of C is required for a biology course to be used to satisfy a prerequisite for a biology course required for the major requirements for the BS in Biology. To qualify for graduation, students must have at least a 2.5 grade point average (GPA) in the courses that make up the Biology major.

**Required courses:** 24 credits

**BIO 205** General Physiology 4 credits
**BIO 312** Genetics 4 credits
**BIO 322** Evolution 4 credits
One advanced six-hour laboratory course from the following: 3 credits

- BIO 424 Molecular Biology and Biotechnology Laboratory
- BIO 450 Experimental Methods in Animal Physiology
- BIO 452 Experimental Methods in Behavioral Biology
- BIO 454 Advanced Methods in Cell Biology
- BIO 456 Experimental Methods in Ecology
- BIO 458 Experimental Methods in Cell Biochemistry
- BIO 460 Experimental Methods in Advanced Genetics

Three Biology Electives 11-12 credits

- BIO 213 Vertebrate Zoology 4 credits
- BIO 215 Invertebrate Zoology and Paleontology 4 credits
- BIO 222 Field Biology 4 credits
- BIO 225 Conservation Biology 4 credits
- BIO 228 Botany 4 credits
- BIO 230 Marine Biology and Oceanography 4 credits
- BIO 240 Biology of Disease 4 credits
- BIO 322 Evolution 4 credits
- BIO 325/MDT 325 Diagnostic Molecular Biology 4 credits
- BIO 327 Molecular Biology 4 credits
- BIO 332 Advanced Physiology 4 credits
- BIO 335 Gene Regulatory Systems 4 credits
- BIO 346 General Virology 3 credits
- BIO 347 Principles of Neurobiology 4 credits
- BIO 442 Immunology 4 credits
- BIO 443 Scanning Electronic Microscopy and X-ray Microanalysis 4 credits

- BIO 594 Biology Independent Study* 4 credits
- BIO 596/596 Cr 1 Biology Independent Study 4 credits

*Requires approval of the chairperson to be credited toward the major. BIO 594 may only be credited once toward the major.

F. Required related science courses: 24 credits

- PHY 116 Physics I 4 credits
- PHY 117* Physics II 4 credits

OR

- PHY 120 General Physics I 3 credits
- PHY 121 General Physics I Laboratory 1 credit

AND

- PHY 160 General Physics II 3 credits
- PHY 161 General Physics II Laboratory 1 credit

AND

- CHM 141 General Chemistry I 3 credits
- CHM 142 General Chemistry II 3 credits
- CHM 147 General Chemistry II Lab 1 credit
- CHM 250 Organic Chemistry I 4 credits
- CHM 256 Organic Chemistry II 4 credits

G. Education Sequence Requirements 24 credits

In addition to completing the pre-major and major requirements, students wishing to be recommended by the College for teacher certification must complete the following sequence of education courses:

- EDS 201 Social Foundations of Secondary Education 4 credits
- EDS 202 Psychological Foundations of Secondary Education 4 credits
- EDS 304 The Pedagogy of Secondary Education 4 credits
- EDS 318 The Secondary School Curriculum in Science 4 credits
- EDS 400 Student Teaching in Secondary Education 6 credits

EDS 401 Reflection and Analysis in Student Teaching in Secondary Education 2 credits

NOTE: EDP 220 is a requirement for NYS Certification. Students are encouraged to take this course prior to graduation.

Total Credits Required: 128

With the permission of the program coordinator, BIO 150 and BIO 160 Anatomy and Physiology I and II may be substituted for BIO 170 and BIO 171 General Biology I and Laboratory, but BIO 150 and BIO 160 may not be used to satisfy the Scientific Analysis requirement in general education.

A student who has educational background or work experience that may be equivalent to the stated prerequisites for a biology course should contact the chairperson of the Biology Department. If it is determined that a student has the appropriate background, a course prerequisite waiver may be issued.

Honors

The honors program in Biology is available to eligible seniors with a 3.5 grade point average or better. The program requires a minimum of one year to complete. The student may receive up to eight credits for independent study (BIO 594) while completing the honors program. However, students do not automatically gain entrance into the honors program by registering for independent study.

To be accepted into the honors program, the student must first obtain approval from a full-time member of the department to carry out an honors research project. This faculty member will then serve as the student’s advisor. Thereafter, the student will prepare and present a detailed written preliminary proposal of the honors research project for approval to a three-member departmental committee, consisting of the faculty advisor and two other faculty members. The committee will evaluate the proposal. After an oral presentation by the student and upon the recommendation of the committee, the student will be accepted into the program. The student will meet with his or her committee midway through the first semester for evaluation of the project.

In addition, the student will submit a written progress report to the committee at the end of the first semester. On the basis of this report, the committee will decide whether the student should proceed further. If the student does not continue in the honors program, he or she may still acquire the credits for independent study.

When the research is completed, the student is required to write up the research in the form of a thesis that will be evaluated at early and final stages by the committee. The thesis format must adhere to that used by leading biological journals, or as outlined in the AIBS style manual. The ultimate decision on thesis format lies with the committee.

Because it will take at least one year to complete the honors program in Biology, it is suggested that the student begin work during the summer immediately following the junior year.
Biology Minor

Minor
Prerequisite courses:
- BIO 170 and 171 General Biology I and Laboratory 4 credits
- BIO 180 and 181 General Biology II and Laboratory 4 credits

Requirements:
Four biology courses at the 200 level or above, at least two of which must have laboratory components. 14-16 credits

Biology Courses

BIO 102 Human Body
3 class hours, 1 recitation hour, 2 laboratory hours; 4 credits
Survey course of gross anatomy and physiology with emphasis on the relation of structure to function and disease processes. Reading techniques and vocabulary problems of the biological sciences are emphasized. Reading: This course has a material fee.
Prerequisite: MTH 020 or an appropriate score on the CUNY Mathematics Test
This course may not be used to satisfy major requirements for the BS in Biology.

BIO 103 Introduction to Biology
3 hours; 3 credits
An introduction to biological principles and how they apply to the structure and function of living organisms, especially the human body. (science) (RLPR)
NOTE: This course is not recommended for students currently enrolled in or planning to pursue a BA, BFA, or BS degree.
Prerequisite or Corequisite: MTH 020

BIO 105 Molecular Foundations of Cell Function
1 lecture hour, 1 recitation hour; 1 credit; the course meets four hours per week for one-half semester
This course offers an introductory survey of molecular biology, cellular metabolism, and cellular mechanisms. It is designed to run concurrently with BIO 150 Human Anatomy and Physiology I, and to provide the necessary background for the study of human anatomy and physiology. This course may not be used to satisfy the Scientific Analysis requirement.
Prerequisite: BIO 106 and BIO 107 or BIO 170 and BIO 171 with a minimum grade of C or a satisfactory score on the Biology Placement Test.
Corequisite: BIO 150
Note: Students planning to enter the programs in Nursing, Physical Therapy, Physician Assistant, or the Nuclear Medicine option in Medical Technology are assigned this course by the Department of Biology on the basis of scores attained on the Biology Placement Test.

BIO 106 Principles of Biology I
3 hours; 3 credits
Introductory biology for non-science majors. Structure and function of the body and the effects of the environment on it. Fundamental biological principles and concepts and their applications to relevant concerns such as drug addiction, food additives, physical fitness, and the population explosion. Not credited toward the Biology major. (science) (RLPR)
Prerequisite: MTH 020 or an appropriate score on the CUNY Mathematics Assessment Test
Corequisite: BIO 107

BIO 107 Principles of Biology I Laboratory
2 laboratory hours; 1 credit
Laboratory experiences illustrating principles and topics discussed in BIO 106. (scientific analysis) NOTE: This course has a material fee.
Corequisite: BIO 106

BIO 108 Principles of Biology II
3 hours; 3 credits
Introductory biology for non-science majors (continuation of BIO 106). The role of biology in the world around us and the effects of the modern world on living things including ecology, pollution, and the extinction of species. Diseases and their treatment through drugs and genetic engineering. Science and the role of the citizen. Not credited toward the Biology major. (science) (FSWR)
Prerequisites: BIO 106, BIO 107
Corequisite: BIO 109

BIO 109 Principles of Biology II Laboratory
2 laboratory hours; 1 credit
Laboratory experiences illustrating principles and topics discussed in BIO 108. (science) (FSWR) NOTE: This course has a material fee.
Corequisite: BIO 108

BIO 146 Nutrition
3 hours; 3 credits
This course presents fundamental principles, concepts, and applications of normal nutrition. Stress will also be placed on the relation of good nutrition to good health. Emphasis will be placed on the common restrictive diets generally used in medical office practice. Open to non-medical assistant students as an elective. May not be used to satisfy major requirements for the BS in Biology.
Prerequisite: BIO 102 or BIO 170 and 171 or BIO 106 and 107 or BIO 150

BIO 150 Human Anatomy and Physiology I
4 lecture hours; 3 laboratory hours; 4 credits
The first half of a comprehensive two-semester course in human biology. Integrated lecture and laboratory sessions deal with the structure and function of cells, tissues, and the following systems: integumentary, musculoskeletal, blood-cardiovascular, immune, and respiratory. This course may not be used to satisfy general education degree requirements, except for Nursing AAS students. (STEM)(RLPR) NOTE: This course has a material fee.
Prerequisites: BIO 106 and BIO 107 or BIO 170 and BIO 171 with a minimum grade of C or a satisfactory score on the Biology Placement Test.
Note: Students who have previously registered two or more times for BIO 150 will be permitted to register again only on a space-available basis, as determined at the close of registration. Students must receive a grade of C or better in BIO 150 to proceed to BIO 160. This is a required course for students planning to enter the programs in Nursing, Physical Therapy, Physician Assistant, or the Nuclear Medicine option in Medical Technology programs.

BIO 160  Human Anatomy and Physiology II
3 class hours, 3 laboratory hours; 4 credits
This course is a continuation of BIO 150. Lecture and laboratory sessions deal with the structure and function of the urinary, digestive, nervous, endocrine, and reproductive systems. This course may not be used to satisfy general education degree requirements, except for Nursing AAS students. (STEM) (FSWR) NOTE: This course has a material fee.
Prerequisites: BIO 105 or a satisfactory score on the Biology Placement Test, and BIO 150

Note: Students must receive a grade of C or better in BIO 150 and in BIO 105 (when prescribed by the Department as a corequisite of BIO 150) to proceed to BIO 160. This is a required course for students planning to enter the programs in Nursing, Physical Therapy, Physician Assistant, or the Nuclear Medicine option in Medical Technology programs.

BIO 170  General Biology I
3 hours; 3 credits
Fundamental biological principles of cell metabolism, energy transformations, and plant and animal functions including support, digestion, respiration, circulation, excretion, and integration, and selected current topics. For science, Medical Technology, appropriate pre-professional majors, and other interested students in consultation with an advisor. (science) (RLPR) (STEM)
Pre or corequisite: ENG 111, MTH 123 or an appropriate score on the CUNY Mathematics Assessment Test
Corequisite: BIO 171

BIO 171  General Biology I Laboratory
3 laboratory hours; 1 credit
Direct student involvement in the experimental demonstration of basic biological principles in plants and animals and the dissection of the fetal pig, with experiments oriented toward the understanding of the human body. For science, Medical Technology, appropriate pre-professional majors, and other interested students in consultation with an advisor. (science) (STEM) NOTE: This course has a material fee.
Pre or corequisite: ENG 111, MTH 123 or an appropriate score on the CUNY Mathematics Assessment Test
Corequisite: BIO 170

BIO 180  General Biology II
3 hours; 3 credits
A continuation of BIO 170, including plant and animal diversity, microbes and disease, reproduction, development, patterns of inheritance, the origins of life, evolution, ecology, and selected topics. For science, Medical Technology, appropriate pre-professional majors, and other interested students in consultation with an adviser. (science) (FSWR) (STEM)
Prerequisites: Minimum grade of C in BIO 170, Minimum grade of C in BIO 171, ENG 111, and MTH 123 or an appropriate score on the CUNY Mathematics Assessment Test
Corequisite: BIO 181

BIO 181  General Biology II Laboratory
3 laboratory hours; 1 credit
A continuation of BIO 171. A laboratory examination of the material covered in BIO 180. For science, Medical Technology, appropriate pre-professional majors, and other interested students in consultation with an advisor. (science) (STEM) (FSWR) NOTE: This course has a material fee.
Prerequisites: Minimum grade of C in BIO 170 and a minimum grade of C BIO 171 and ENG 111, and MTH 123 or an appropriate score on the CUNY Mathematics Assessment Test
Corequisite: BIO 180

BIO 205  General Physiology
3 class hours, 3 laboratory hours; 4 credits
A study of systemic physiology with emphasis on cell physiology, homeostasis, and control mechanisms in vertebrates, particularly mammals. Laboratory exercises include physiographic studies of various systems. Required for Biology and Medical Laboratory Technology majors. NOTE: This course has a material fee.
Prerequisites: BIO 160 or BIO 180 and 181; CHM 141 and CHM 121

BIO 213  Vertebrate Zoology
2 class hours, 4 laboratory hours; 4 credits
A comparative study of the chordates with emphasis on both extant and extinct taxa, ecology, behavior and morphological and physiological specializations. Projects conducted outdoors at local field sites and a museum trip.
NOTE: This course has a material fee.
Prerequisites: BIO 180 and 181

BIO 214  Biological Approach to Human Sexuality
3 hours; 3 credits
Developmental anatomy of female and male reproductive systems, basic endocrinology and reproductive cycles; physiology of sexual functions; pregnancy and birth; fertility, stimulation, and control; sexual disorders, venereal disease, and other diseases including cancer; biological origins and variations of behavior. May not be used to satisfy the major requirements for the BS in Biology.
Pre- or corequisite: BIO 180 and 181 or BIO 160

BIO 215  Invertebrate Zoology and Paleontology
2 class hours, 4 laboratory hours; 4 credits
Taxonomy, ecology, evolution, paleontology, and phylogeny of the invertebrates, emphasizing the medical, economic, and evolutionary importance of the various groups. Introduction to the use of zoological literature and preparation of a scientific paper. NOTE: This course has a material fee.
Prerequisites: BIO 180 and 181
BIO 217  Introduction to Tropical Ecology  
3 hours; 3 credits  
An introduction to tropical ecology, with emphasis on differences in the tropical versus temperate system: differences in climatic regimes, habitat types, phenology of natural processes, and species to be found in the tropical versus eastern North American temperate environments. It is a short, but intensive immersive course held at a tropical field station, providing opportunities for study of tropical environments and a different culture. Prerequisites: BIO 180 and 181

BIO 222  Field Biology  
2 class hours, 4 laboratory or field hours; 4 credits  
This course provides instruction in standard procedures of collecting, preserving, and analyzing specimens and data observed during off-campus field trips. Analysis will include introduction to descriptive statistics; comparisons and indices of species diversity, dispersion, and community similarity. One field study will be made of animal behavior. One weekend field trip is scheduled. Reports using scientific format, labeled specimen collections, and a field notebook are required. NOTE: This course has a material fee. Prerequisites: BIO 180 and 181

BIO 225  Conservation Biology  
4 credits; 4 hours  
The applied, integrative, and multidisciplinary science of maintaining the earth's biological diversity. The objectives of this course are to understand the conceptual foundations of conservation biology, the primary threats to biodiversity, the consequences of small populations, and approaches to solving conservation problems. Through reading assignments, discussions, exercises, field trips to local sites of conservation interest, exams and a presentation, the course will significantly foster student-active learning of conservation biology in an evolutionary and ecological context. Prerequisites: BIO 180, BIO 181, ENG 111, MTH 123

BIO 228  Botany  
3 class hours, 3 laboratory hours; 4 credits  
An introduction to the major structural and functional characteristics of the groups of plants that comprise the plant kingdom: bacteria, algae, fungi, mosses, ferns, gymnosperms, and angiosperms. Interrelationships of evolution, diversity, and ecology are stressed throughout the examination of all major disciplines of plant biology. NOTE: This course has a material fee. Prerequisites: BIO 180 and 181

BIO 230  Marine Biology and Oceanography  
3 class hours, 3 laboratory hours; 4 credits  
An introduction to the chemical, physical, geological and biological processes governing the formation of the world's oceans and the distribution and ecology of its inhabitants. Lectures will introduce the biological, chemical, and geological features of saltwater environments, and field trips to local marine habitats and associated laboratory work will complement these lectures. The multidisciplinary character of marine biology and oceanography will be stressed. Fundamental principles in all disciplines are discussed. NOTE: This course has a material fee. Prerequisites: BIO 205 and CHM 142 and CHM 127

BIO 232  Social Problems in Biology  
3 hours; 3 credits  
A course exploring the application of biology to crucial issues in the world today: drugs, pollution, overpopulation, birth control, abortion, the right to die, test-tube babies, genetic engineering, the rebuilding of humans, and the conquest of diseases. May not be used to satisfy the major requirements for the BS in Biology. Prerequisites: BIO 102, or BIO 170 and 171, or BIO 106 and 107

BIO 240  The Biology of Disease  
4 hours; 4 credits  
Biological aspects of the major diseases of humans, including heart disease, cancer, autoimmune diseases such as arthritis and multiple sclerosis; hereditary diseases such as sickle cell anemia and hemophilia; and bacterial and viral diseases such as tuberculosis, colds, and influenza. Principles of immunology, chemotherapy, and genetic engineering are among the major concepts that will be studied. Prerequisites: (BIO 180 and 181) or BIO 160

BIO 242  History of Biology  
3 hours; 3 credits  
A survey of the historical development of some of the major biological concepts including an examination of the life and times of various biologists and the factors that influenced their work. Original scientific research papers will be read. May not be used to satisfy the major requirements for the BS in Biology. Prerequisites: BIO 180 and 181

BIO 272  Biometrics  
4 hours; 4 credits  
A course for science majors emphasizing applications of statistics to problems in experimental biology, field biology, and environmental science. It covers descriptive statistics, probability and probability distributions, confidence intervals, hypothesis testing, and design of experiments. The following techniques are included: goodness of fit tests, t-tests, analysis of variance, correlation and regression, time series analysis, and nonparametric methods. Prerequisites: BIO 160 or BIO 180 and 181; MTH 123 or MTH 130

BIO 312  Genetics  
3 class hours, 3 laboratory hours; 4 credits  
A study of the mechanics and molecular basis of inheritance. The lectures will cover patterns of inheritance, structure and function of nucleic acids, recombinant DNA, bacterial genetics, and population genetics. Laboratory exercises will include studying patterns of inheritance with Drosophila melanogaster and techniques related to recombinant DNA work. Required of Biology majors. NOTE: This course has a material fee. Prerequisites: BIO 205 and CHM 142 and CHM 127

BIO 314  General Microbiology  
3 class hours, 3 laboratory hours; 4 credits  
Topics will include immunology, biotechnology, and the metabolism, genetics, morphology, and growth of micro-
organisms. Required of Medical Technology majors. NOTE: This course has a material fee. Prerequisites: BIO 160 or BIO 180, BIO 181, and CHM 141

BIO 316 Clinical Microbiology
2 class hours, 4 laboratory hours; 4 credits
Medical and diagnostic microbiology: a study of host microbe interactions, the principles and applications of the immune response, the epidemiology of infectious disease, and the pathogenesis of the major microbial diseases. In the laboratory the procedures used in laboratory diagnosis are applied. Required of Medical Technology majors. A non-liberal arts and sciences course, not credited toward the Biology major. NOTE: This course has a material fee. Prerequisite: BIO 314

BIO 318 Histology
2 class hours, 4 laboratory hours; 4 credits
A study of the microscopic structure of mammalian cells, tissues, and organs with emphasis on functional correlations. Laboratory sessions include technical procedures for fixing, sectioning, staining, and mounting tissue specimens, and examination of prepared microscopic slides of human/mammalian tissues and organs. NOTE: This course has a material fee. Prerequisite: BIO 160 or BIO 205

BIO 322 Evolution
4 hours; 4 credits
The principles of the neo-Darwin theory of evolution; the origin and evolution of life; mechanisms of evolution and the roles of genetic variation, natural selection, isolation, and chance; species concepts and speciation; phylogeny; the tempo and mode of evolution; molecular evolution; the impact of genomics on evolutionary relationships; and an introduction to the use of pertinent scientific literature. Prerequisite: BIO 312

BIO 324 Developmental Biology
3 class hours, 3 laboratory hours; 4 credits
Early development of representative organisms, including fertilization, cleavage, origin of germ layers, and organ systems; biochemical events during differentiation. NOTE: This course has a material fee. Prerequisites: BIO 180 and 181; CHM 142 Pre- or corequisite: BIO 205

BIO 325 Diagnostic Molecular Biology
(Also MDT 325)
3 class hours, 3 laboratory hours; 4 credits
This course will address the theoretical and practical framework for the understanding and application of molecular biology techniques in the clinical laboratory. The course material will cover the principles and applications of recombinant DNA technology including DNA-DNA hybridization, DNA amplification, and nonradioactive in situ hybridization (HISH) for the detection and identification of microorganisms associated with infectious diseases. NOTE: This course has a material fee. Prerequisites: BIO 314, CHM 142

BIO 326 Introduction to Bioinformatics and Genomics
3 class hours, 3 laboratory hours; 4 credits
Introduction to the representation and analysis of biological sequence and structural information. Description and use of nucleic acid, protein, structure, sequence motif, genome, literature, and other relevant databases. Overview and discussion of basic sequence manipulations and analyses including sequence assembly and editing, restriction and protease analysis, coding region identification, gene prediction, database searching and similarity analysis, pairwise and multiple sequence alignment, PCR primer design, phylogenetic analyses, protein structure and property prediction, RNA structure prediction, microarray analyses, etc. Laboratory includes demonstrations and practical exercises illustrating the analyses and concepts presented and discussed in lecture. Recommended: BIO 312, BIO 370, BIO 352 or the equivalent. Prerequisite: BIO 327

BIO 327 Molecular Biology
3 class hours, 3 laboratory hours; 4 credits
Principles and regulation of gene expression: nucleic acid and chromosome structure/function, transcription, RNA processing, and translation. Emphasis on eukaryotes and experimental analysis (recombinant DNA and other methods) of genomes, gene structure/function, and expression. NOTE: This course has a material fee. Prerequisites: BIO 312

BIO 332 Advanced Physiology
4 hours; 4 credits
An in-depth study of representative physiological mechanisms at the molecular and cellular levels of organization. Course topics include the function of biological macromolecules, bioenergetics and metabolism, cell surface dynamics, functional microanatomy of neurons, neural information transfer and integration, organization of reflexes, hormones and other bioactive chemical messengers, renal regulation of the internal environment. Prerequisite: BIO 205 with a minimum grade of C or higher

BIO 335 Gene Regulatory Systems
4 hours; 4 credits
An exploration of the structure, function and evolution of gene regulatory systems, with particular emphasis in transcriptional and developmental gene regulatory networks. The computer lab component includes the use of genomic tools that facilitate the study of gene regulatory networks. Prerequisite: BIO 312

BIO 338 Behavioral Biology
3 class hours, 3 laboratory hours; 4 credits
This course will cover the areas of animal behavior, neurophysiology, sensory physiology, and neuroendocrinology to provide an integrated point of view of the biological basis of behavior. NOTE: This course has a material fee. Prerequisites: BIO 205 and CHM 142

BIO 342 Advanced Human Anatomy
3 class hours, 3 laboratory hours; 4 credits
In-depth study of the human body with emphasis on the neuromuscular system. Examines structural interrelationships as a basis for normal functions. Directed laboratory experiences with cadaver dissection and skeletal materials and models. NOTE: This course has a material fee.

Prerequisites: BIO 160 and acceptance into the Physical Therapy or Physician Assistant Programs or permission of the appropriate program coordinator.

BIO 346 General Virology
3 hours; 3 credits
Study of major groups of viruses and includes structural and biochemical characteristics, cell-virus interactions, and viral diseases
Prerequisites: BIO 314

BIO 350 Microbiology and Cellular Pathology
3 hours; 3 credits
A one-semester course that surveys the major groups of microorganisms with emphasis on those involved in human health problems. The principles of immunity and hypersensitivity, microbial control, and the principal microbial diseases are discussed. Not credited toward the Biology major.
Prerequisite: BIO 160
Corequisite: BIO 351

BIO 351 Microbiology and Cellular Pathology Laboratory
3 laboratory hours; 1 credit
Laboratory exercises correlated with topics covered in BIO 350. NOTE: This course has a material fee.
Prerequisite: BIO 160
Corequisite: BIO 350

BIO 352 Cell Biology
3 class hours, 3 laboratory hours; 4 credits
The eukaryotic cell is treated as a highly compartmentalized functional unit. Emphasis on cell cycle, DNA and chromosomal organization and functions, replication, transcription and translation, also organization and functional interrelationship of surface and internal membrane systems, exo/endocytosis and cytoskeleton. The lab component deals with selected topics illustrating key cell biology concepts. Required for Biology majors. Biology majors require grade of C or better in prerequisite Biology courses. NOTE: This course has a material fee.
Prerequisites: BIO 205 and CHM 142
Corequisite: CHM 250

BIO 360 Ecology
3 class hours, 3 laboratory hours; 4 credits
How interactions between organisms, and between organisms and the physical environment bring about adaptations in response to natural selection, and change in species diversity through evolutionary time. Population genetics, growth, and demography; competition; predation; and community and ecosystem structure and function are other major areas covered. Principles of ecology will be emphasized in laboratory work and in field studies of various natural habitats. Required for Biology majors. Biology majors require grade of C or better in prerequisite Biology courses. It is recommended that students take BIO 215 or BIO 228 prior to taking this course. NOTE: This course has a material fee.
Prerequisite: BIO 312

BIO 365 Principles of Neurobiology
3 class hours, 3 laboratory hours; 4 credits
A study of basic mechanisms regulating activity of nerve cells including mechanisms of memory and brain disorders. Laboratory exercises include electrophysiological recordings of neuronal activity in vitro and biochemical characterization of components of the nervous tissue. NOTE: This course has a material fee.
Prerequisites: BIO 180 and BIO 181, or BIO 160
Corequisite: CHM 250

BIO 368 Neuroscience
3 class hours, 3 laboratory hours; 4 credits
Examines the structure and function of the central nervous system and sensory receptors. Includes laboratory sessions on the dissection of the human brain, examination of sections of the spinal cord and brain stem, and experiments with functions of the nervous system. NOTE: This course has a material fee.
Prerequisites: BIO 332, BIO 342, PHT 200

BIO 370 Biochemistry I
(Also CHM 370)
4 hours; 4 credits
The major constituents of cells: physical and chemical properties of carbohydrates, lipids, proteins, and nucleic acids. Properties of enzymes including specificity and kinetics.
Prerequisite: CHM 256
Pre- or corequisites: PHY 110 and PHY 111, or PHY 116, or PHY 120 and PHY 121

BIO 372 Cell Biochemistry
3 class hours, 3 laboratory hours; 4 credits
Chemical approaches to cell function: bioenergetics, cell replication, control of biosynthetic processes, and metabolism. Use of analytic methods to study the properties of cells and subcellular components. NOTE: This course has a material fee.
Prerequisites: BIO 205, CHM 256

BIO 376 Biochemistry II
(Also CHM 376)
4 hours; 4 credits
Intermediary metabolism, metabolism of carbohydrates, lipids, amino acids, and nucleotides. Introduction to bioenergetics and biochemical genetics.
Prerequisite: BIO/CHM 370
Pre- or corequisites: PHY 150 and 151, or PHY 156, or PHY 160 and 161

BIO 378 Radiation Biology
4 hours; 4 credits
The biological effects of chronic and acute exposure to ionizing and non-ionizing radiation. The mechanisms underlying the events occurring during and after the interaction between macromolecules, isolated cells, organs, and entire organisms with irradiation. The effects of radiation at all levels of biological organization, and the biological basis for radiation safety practices are discussed.
Prerequisite: BIO 205
Pre- or corequisites: PHY 150 and 151, or PHY 156, or PHY 160 and 161

BIO 382  Pharmacotherapeutics
3 hours; 3 credits
Pharmacodynamics of medicinal substances with respect to advanced receptor mechanisms and the action-effect sequence of drug activity. Emphasis is on the correlation between drug structure, pharmacologic activity, and the effect of drugs. Not credited toward the Biology major.
Prerequisites: BIO 350 and 351 or BIO 332; CHM 110 and 111 or CHM 141 and CHM 121

BIO 415  Mathematical Biology
(Also MTH 415)
4 hours; 4 credits
This course will address the growing interaction between mathematics and the biological sciences and will provide a practical context for the mathematical description and analysis of biological processes. The emphasis will be on the construction and analysis of models consistent with empirical data. Biological problems in ecology and conservation, epidemiology, cell biology, and neuroscience will be used to illustrate the equations, including especially nonlinear equations. The computer program MATLAB will be used extensively.
Prerequisites: MTH 230 and MTH 231 or equivalent; MTH 229, and one BIO 300-level course

BIO 420  Comparative Endocrinology
3 class hours, 3 laboratory hours; 4 credits
Role of major endocrine glands (including neuroendocrines) in cell function and metabolic pathways. Emphasis upon phylogeny and comparative physiology of the endocrine system. Pertinent methodology will be treated. NOTE: This course has a material fee.
Prerequisites: BIO 205, CHM 256, and one additional physiology course

BIO 424  Molecular Biology and Biotechnology Laboratory
6 laboratory hours; 3 credits
Methods in the cloning, expression, isolation, and analysis of nucleic acids (RNA and DNA) and recombinant proteins; introduction to computer methods and analysis in biotechnology; DNA sequencing and sequence analysis; experimental approaches for the analysis of regulation of gene expression including transfection, report analysis, etc. Recommended students take BIO 312, BIO 370, or BIO 352 prior to this course.
Prerequisites: BIO 205, CHM 142, and CHM 127
Pre- or corequisite: BIO 327

BIO 425  Computational Molecular Biology
3 hours; 3 credits
Overview of theoretical and computational methods in bioinformatics with an emphasis on the application of algorithms and use of statistical methods in nucleic acid and protein sequence analysis. Emphasis on the mathematical basis of sequence alignment including database searches using Smith-Waterman dynamic programming, pair-wise sequence alignment using dynamic programming and scoring matrices, and multiple sequence alignment using hidden Markov model and genetic algorithms.
Prerequisites: BIO 326, BIO 272 or MTH 214 and MTH 230 or MTH 231 or MTH 235

BIO 428  Plant Physiology
3 class hours, 3 laboratory hours; 4 credits
Examination of the basic physiological processes common to all vascular plants. Topics covered include cell structure and function, water transport, transpiration, photosynthesis, solute translocation, nutrient uptake, mineral nutrition, phytohormones, plant tropisms, growth, development, and reproduction. Laboratory exercises will include plant cells, water relations, tissue culture, photosynthesis, phytohormones, reproduction, competition, and symbiosis. NOTE: This course has a material fee.
Prerequisite: BIO 205 or BIO 228
Pre- or corequisite: CHM 250

BIO 432  Clinical Pathology
3 hours; 3 credits
Study of the disease processes and their clinical manifestations beginning with the cellular and tissue levels leading to the organ level. Surveys medical conditions and their management as they relate to physical therapy practice. Areas include cardiology, orthopedics, autoimmune system, epidemiology.
Prerequisites: BIO 342, BIO 332
Corequisite: BIO 318

BIO 434  Comparative Physiology
4 hours; 4 credits
The study of the maintenance of internal homeostasis in different animal groups. Emphasis will be placed upon the phylogeny of the processes of regulation and integration. NOTE: This course has a material fee.
Prerequisites: BIO 205 and BIO 213 or BIO 215
Corequisite: CHM 250

BIO 442  Immunology
2 lecture hours, 4 laboratory hours; 4 credits
An introduction to immunology, with attention to the formation and nature of antibodies, the nature of antigens, and problems of antigen-antibody interactions. Such subjects as antibody-mediated hypersensitivity and histocompatibility are also considered. NOTE: This course has a material fee.
Prerequisite: BIO 314 or BIO 350

BIO 443  Scanning Electron Microscopy and X-ray Microanalysis
(Also CHM 443)
2 hours lecture, 4 hours laboratory; 4 credits
A course to familiarize undergraduate students with the principles and practices of scanning electron microscopy and x-ray microanalyses. The course content will focus on the SEM and its modes of operation, electron beam-specimen interactions, image formation, generation of x-rays, x-ray spectral measurement, and qualitative and quantitative x-ray analyses. The lecture will present the historical and theoretical backgrounds to these integrated topics, and the laboratory will provide hands-on experiences for biological, materials, and polymer samples. The designed experiments will allow stu-
students to apply the techniques learned in class to realistic systems, and the laboratory reports will help students develop the skill in scientific and technical writing. This course is directed toward advanced biology/chemistry students.
Prerequisites: Permission of instructor

**BIO 450** Experimental Methods in Animal Physiology
6 laboratory hours; 3 credits
Procedures and instrumentation used in testing physiological phenomena. Some of the areas explored are muscle contraction, nerve responses, renal function, active transport, and basal metabolism. NOTE: This course has a material fee.
Prerequisites: BIO 205, CHM 250
Pre- or corequisite: CHM 256

**BIO 452** Experimental Methods in Behavioral Biology
6 laboratory hours; 3 credits
Emphasis will be placed on the laboratory analysis of factors that influence the behavior of animals in the laboratory and field. Field trips will be required. NOTE: This course has a material fee.
Prerequisites: BIO 338 and BIO 272 or MTH 214

**BIO 454** Advanced Methods in Cell Biology
6 laboratory hours; 3 credits
Current procedures for the microscopic study of tissues and cells. Advanced histological procedures involving paraffin embedding, sectioning, and staining with selected reactions will be used to study normal and experimentally modified tissues. Autoradiography and enzyme histochemistry will also be examined. NOTE: This course has a material fee.
Prerequisites: BIO 352 and CHM 142

**BIO 456** Experimental Methods in Ecology
6 laboratory hours; 3 credits
Introduction to natural communities. Emphasis on quantitative methods for community and ecosystem analysis. Field trips to be arranged. NOTE: This course has a material fee.
Prerequisites: BIO 360 and either BIO 272 or MTH 214

**BIO 458** Experimental Methods in Cell Biochemistry
6 laboratory hours; 3 credits
The course consists of the application of modern analytical methods to the study of the properties of cells and subcellular components. Emphasis will be placed on the mastering of laboratory techniques. Not credited toward the Biochemistry major. NOTE: This course has a material fee.
Prerequisite: BIO 370 or 372

**BIO 460** Experimental Methods in Advanced Genetics
6 laboratory hours; 3 credits
Current procedures in basic recombinant DNA techniques will be utilized including DNA isolation, restriction digestion, ligation, and analysis of recombinant products. NOTE: This course has a material fee.
Prerequisite: BIO 312

**Business**

(Bachelor of Science, Associate in Applied Science, Minor)
School of Business, Building 3N, Room 219
Dean, Susan Holak, BS, MPhil, PhD
Department of Accounting & Finance
Chairperson and Professor Jonathan Peters
Department of Economics
Chairperson and Associate Professor Vasilios Petratos
Department of Management
Chairperson and Associate Professor Gordon DiPaolo
Department of Marketing
Chairperson and Professor Thomas Tellefsen

The Associate’s degree program offers options in Accounting, Finance, Information Systems, International Business, Management, and Marketing.

Graduates may enter directly into the job market or continue study toward the bachelor’s degree and should consult an advisor and plan their programs accordingly.

Students can obtain both exemption from and course credit for BUS 150 by successfully completing four Microsoft Office User Specialist (MOUS) exams: Version 2002 or later, in Word, Excel, PowerPoint, and Access. For information on MOUS test standards and administration, see Microsoft Office Specialist Certification Requirements at [www.Microsoft.com](http://www.Microsoft.com).

**Business (AAS)**

**Pathways Required Core: 12 credits**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition (RECR)</td>
<td>6</td>
</tr>
<tr>
<td>ENG 111 Introduction to College Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENG 151 College Writing</td>
<td>3</td>
</tr>
<tr>
<td>Mathematical And Quantitative Reasoning (RMQR)</td>
<td>3 or more</td>
</tr>
</tbody>
</table>

Students are required to complete one of the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH 121 Finite Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MTH 123 College Algebra and Trigonometry</td>
<td>4</td>
</tr>
<tr>
<td>MTH 130 Pre-Calculus Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MTH 230 Calculus I with Pre-Calculus</td>
<td>6</td>
</tr>
<tr>
<td>MTH 231 Analytic Geometry and Calculus I</td>
<td>3</td>
</tr>
<tr>
<td>MTH 235 Accelerated Calculus I</td>
<td>5</td>
</tr>
<tr>
<td>Life and Physical Sciences (RLPR)</td>
<td>3 or more</td>
</tr>
</tbody>
</table>

**Pathways Flexible Core: 9 credits**
Select 3 courses from the following five areas with no more than two courses from any discipline or interdisciplinary field in the Flexible Core. The five areas of the Flexible Core are:
1. World Cultures and Global Issues (FWGR)
2. Creative Expression (FCER)
3. U.S. Experience in its Diversity (FUSR)
4. Individual and Society (FISR)
5. Scientific World (FSWR)

NOTE: Students may take courses in STEM areas of the Common Core (Mathematical and Quantitative...
Reasoning, Life and Physical Sciences, and Scientific World) that have 3 or more credits. This may result in students finishing their degree with more than the regular number of credits required.

**Core Requirements: 28 credits**
(Provide note that the prerequisites for several Core courses include a specific math course (MTH 121, or MTH 123, MTH 130, MTH 230, MTH 231). Students may also use this course to fulfill a General Education requirement)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 114</td>
<td>4</td>
</tr>
<tr>
<td>ACC 121</td>
<td>4</td>
</tr>
<tr>
<td>BUS 160</td>
<td>3</td>
</tr>
<tr>
<td>BUS 215</td>
<td>4</td>
</tr>
<tr>
<td>ECO 111</td>
<td>4</td>
</tr>
<tr>
<td>OR ECO 112</td>
<td></td>
</tr>
<tr>
<td>FNC/ECO 240</td>
<td>3</td>
</tr>
<tr>
<td>MGT 110</td>
<td>3</td>
</tr>
<tr>
<td>MKT 111</td>
<td>3</td>
</tr>
</tbody>
</table>

**Specialization requirements: 7-8 credits selected from the following recommended courses:**

**Accounting:**
Any two accounting courses above the level of ACC 121.

**Finance:**
Any two finance courses at the 200 level or above.

**Information Systems:**
Two courses chosen from among the following: BUS 205 Data Communications and Networks for Business, BUS 352 Introduction to Systems Analysis, CSC 126 Introduction to Computer Science.

**International Business:**
BUS 200 one additional course selected in consultation with the student's adviser. (ECO 250, ECO 252, ECO 256, ECO 251/POL 251, or POL 261)

**Management:**
Any two management courses at the 200 level or above.

**Marketing:**
Any two marketing courses at the 200 level or above.

**Electives: 3-4 credits**

**Total Credits Required: 60**

**Liberal Arts and Sciences Requirement**
All courses designated ACC and BUS, and most courses designated FNC, MKT, and MGT are non-liberal arts and sciences. Courses double-listed with economics (ECO) or political science (POL) are liberal arts and sciences.

**Business (BS)**
This program offers students a strong general business education together with the opportunity for a concentration in finance, international business, management, or marketing. The BS degree programs in Business and Accounting are appropriate for graduates of associate's degree programs as well as for new and transfer students. For admission, continuation, and graduation from the Bachelor of Science degree program in Business, students must maintain a minimum cumulative GPA of 2.5. A 2.5 GPA is not a requirement for students to enroll in the AAS program, for students pursuing a minor in the School of Business, or for students enrolling in individual courses.

**Pre-Major Requirements: 39-43 credits**
(Provide note that the prerequisites for several Core courses include a specific math course (MTH 121, or MTH 123, MTH 130, MTH 230, MTH 231). Students may also use this course to fulfill a General Education requirement)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MGT 110</td>
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<tr>
<td>MKT 111</td>
<td></td>
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<tr>
<td>FNC/ECO 240</td>
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<tr>
<td>ECO 111</td>
<td></td>
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<tr>
<td>ECO 112</td>
<td></td>
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<tr>
<td>ACC 114</td>
<td></td>
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<tr>
<td>ACC 121</td>
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<tr>
<td>BUS 160</td>
<td></td>
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<tr>
<td>BUS 215</td>
<td></td>
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<tr>
<td>MGT/ECO 230</td>
<td></td>
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</tbody>
</table>

In addition to the course taken to satisfy Mathematical and Quantitative Reasoning (RMQR), students must take an additional math course from the following list: 3-6 credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH 130</td>
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<tr>
<td>MTH 221</td>
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<tr>
<td>MTH 230</td>
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<td>MTH 231</td>
<td></td>
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<tr>
<td>MTH 232</td>
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</tbody>
</table>

**Major Requirements: 26-32 credits**
Each student chooses one area of concentration beyond the pre-major requirements. Concentrations are available in Finance, International Business, Management, and Marketing.

**Finance Concentration: 30 credits**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>FNC 111</td>
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<tr>
<td>FNC/ECO 213</td>
<td></td>
</tr>
<tr>
<td>ACC 315</td>
<td></td>
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<tr>
<td>FNC300/</td>
<td></td>
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<tr>
<td>FNC/ECO 345</td>
<td></td>
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<tr>
<td>FNC 350</td>
<td></td>
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<tr>
<td>FNC/ECO 360</td>
<td></td>
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</tbody>
</table>

Plus one course chosen from ECO 318, 4 credits
International Business Concentration: 34-36 credits

BUS 200 International Business 4 credits
ECO 370/ ECO 371 International Finance 4 credits
FNC 300 4 credits
BUS 415 Global Strategy and Decision Making 4 credits

Foreign Language* 0-8 credits
*Students who are exempt from the foreign language course requirement must take additional credits from the courses listed below to complete the 34-36 credits required in the concentration.

1. Business: At least two courses chosen from the following:
   MGT 325 International Management 4 credits
   MGT 320 International Marketing 4 credits
   BUS 598 Business Internship 4 credits
   At least one course chosen from each of the following categories:

2. Economics/Political Science
   ECO 250 International Economics 4 credits
   ECO/GEG Economic Geography 252 4 credits
   ECO 356 Economic Growth & Development 4 credits
   ECO/POL International Political 251 Economy 4 credits
   POL 260 International Politics: In Search of a New World Order 4 credits
   POL 261 International Organizations 4 credits

3. Country Focus
   BUS 420 Global Business Seminar: Doing Business Abroad 3 credits
   HST 206 Modern China 4 credits
   HST 207/ Modern Africa History of Africa
   AAD 260 4 credits
   HST 208 Modern Latin America 4 credits
   HST 209 Modern Japan 4 credits
   HST 210 Modern India 4 credits
   HST 235 Modern Middle East 4 credits
   HST 271 Modern British History 4 credits
   HST 272 Modern Germany 4 credits
   HST 284 Soviet and Contemporary Russia 4 credits
   LNG/INT Aspects of Contemporary China 4 credits

Management Concentration: 26-28 credits

MGT 210 Management Process 4 credits
MGT 320 Management of Organizational Behavior 4 credits
MGT 410 Business Policy 4 credits
MGT 416 Capstone Business Simulation 4 credits

Plus two (2) courses chosen from the following list or any other 200-level or higher MGT course: 6-8 credits
MGT 223 Public Administration 4 credits
MGT 314 Small Business Management 4 credits
MGT 321 Production Management 4 credits
MGT 322 Human Resource Management 4 credits
MGT 325 International Management 4 credits
MGT 326 Sports Management 4 credits
BUS 200 Introduction to International Business 4 credits
BUS 211 / COM 211 Communication in a Corporate Setting 3 credits
BUS 238 / PHL 238 Ethical Issues in Business and Society 4 credits
MKT 215 Principles of Selling 4 credits
FNC 111 Personal Financial Management 3 credits

Plus any one (1) business-related course (except BUS 100) with the written approval of the student’s advisor. 3-4 credits

Marketing Concentration: 30-32 credits

MKT 211 Advertising 4 credits
MKT 310 Consumer Behavior 4 credits
MKT 410 Marketing Research 4 credits
MKT 420 Marketing Management 4 credits
MGT 416 Decision Making in Business and Marketing 4 credits
MKT 325 Advertising Buying Strategy 4 credits
MKT 360 Internet Marketing 4 credits

Plus two courses chosen from List A, or one from List A and one from List B 6-8 credits

A. Marketing Elective courses:
   MKT 213 Retail Store Organization and Operation 3 credits
   MKT 215 Principles of Selling 3 credits
   MKT 216 Sales Management 3 credits
   MKT 312 Advertising Copy and Production 4 credits
   MKT 320 International Marketing 4 credits
   MKT 325 Advertising Buying Strategy 4 credits
   MKT 360 Internet Marketing 4 credits
   MKT 370 Advanced Marketing Strategy 4 credits
   MKT 490 Marketing Seminar 3 credits

Any MKT course(s) at the 200 level or higher

B. Marketing-Related courses:
   BUS 200 Introduction to International Business 4 credits
   BUS/COM Communications in a Corporate Setting 3 credits
   BUS 598 Business Internship 3-4 credits
   COM 250 Basic Design and Media Graphics 3 credits
   COM 251 Digital Imaging I 3 credits
   ECO 323/ Introduction to Econometrics 4 credits
   ECO 326 Behavioral Economics 4 credits
   FNC 111 Personal Finance Management 3 credits
   ISI 315 Information Security and Risk Management 4 credits

NOTE: Please check the catalog for course prerequisites.

Total Credits Required: 120

Liberal Arts and Sciences Requirement
Since most business courses are non-liberal arts and sciences, students in this program should pay special attention to this requirement.
Honors
To graduate with honors in Business a student must have a 3.5 grade point average in business courses and must have a 3.25 grade point average overall. An honors thesis or project supervised by a member of the business faculty must be completed.

Business Minors

Minors
The Business minors are available to students in any of the College’s bachelor’s degree majors.

Minor in Business 15 credits
At least 15 credits from any ACC, BUS, FNC, MGT, or MKT courses or ECO 101.

Minor in Business: Data Analytics 20 credits
BDA 301 Introduction to Business Data Analytics 4 credits
BUS 215 Information Management 4 credits
ECO 230/232 Introduction to Managerial and Economic Statistics 4 credits
MGT 230 ECO Introduction to Econometrics 4 credits
MGT 324 One additional course selected from the following:
ECO Investment Analysis 4 credits
360/362
FNC 360
ISI 334 Business Intelligence and Analytics 4 credits
MGT 321 Production Management 4 credits
MKT 410 Marketing Research 4 credits

Minor in Finance
ACC 114 Introduction to Accounting I 4 credits
MGT 110 Organizational Theory and Management 3 credits
FNC/EC O 240 Managerial Finance I 3 credits
FNC/EC O 345 Managerial Finance II 4 credits
One additional finance course 3-4 credits

Minor in Information Management
Open to Business students and all CSI students
BUS 215 Information Management 4 credits
ISI 315 Information Security & Risk Management 4 credits
ISI 364 Enterprise Computing Strategies 4 credits
ISI 205 Data Communications and IT Infrastructure 4 credits
or
CSC 435 Advanced Data Communications 4 credits

and
One additional ISI course(ISI 334, ISI 352, ISI 374) 4 credits

Minor in Management
ACC 114 Introduction to Accounting I 4 credits
MGT 110 Organizational Theory and Management 3 credits
MGT 210 Management Process 4 credits
MGT 320 Management of Organizational Behavior 4 credits
One additional course in management at the 200 or 300 level 3-4 credits

Minor in Marketing
ACC 114 Introduction to Accounting I 4 credits
MKT 111 Marketing 3 credits
MKT 211 Advertising 4 credits
MKT 310 Consumer Behavior 4 credits
One additional course in marketing at the 200 or 300 level 3-4 credits

Business Courses

BUS 100 Introduction to Business
3 hours; 3 credits
The role of business is examined in relation to the environment, government, and society with the emphasis on decision making. An investigation is made of the major aspects of business practice including accounting, finance, management, marketing, data processing, and international business.

BUS 102 Entrepreneurship
3 hours; 3 credits
An in-depth examination of the requirements, process, and possible outcomes of starting a small business. Students participate in computer simulation in which they propose, design, and launch a new business. Topics include market selection, product/service design, financing, marketing, organizing, and staffing a startup business.
Prerequisite: Successful completion of the CUNY Assessment Tests in Writing, Reading, and Mathematics or the equivalent.

BUS 135 Introduction to Information Systems
(Also CSC 135)
2 lecture hours, 2 laboratory hours; 3 credits
A hands-on laboratory course in the effective use of technology tools for problem solving. Students will understand how copyright laws apply to software and the need to acknowledge material from outside sources, including online material and the work of others.
Corequisite: CSC 126

BUS 140 Business Communications
3 hours; 3 credits
Composition of effective business correspondence: credit and collection letters, request and response letters, job applications, résumés, and reports. Detailed attention is given to the principles of grammar, spelling, punctuation, and form as they apply to contemporary business writing.

BUS 150 Essential Software Tools for Business
4 hours; 3 credits
This course is a hands-on introduction to the use of microcomputers in business. The emphasis will be on the operating system and practical use of the most popular application software including spreadsheets, word processing, and database management. Data exchange among different applications and usage of external databases will also be introduced. Not open to students who have successfully completed CSC 102.
Prerequisite: MTH 020 or an appropriate score on the CUNY Mathematics Assessment Test.
Note: Students can obtain both exemption from and course credit for BUS 150 by successfully completing four Microsoft Office Specialist (MOUS) exams, Versions 2002 or later, in Word, Excel, PowerPoint, and Access. For information on MOS test standards and administration, see Microsoft Office Specialist Certification Requirements at www.Microsoft.com.

BUS 160 Business Law I
3 hours; 3 credits
An introduction to law and its relationship to business and the American legal system. The study of the law of contracts, agency, personal property, bailments, real property, mortgages, fire and casualty insurance, and accountant’s legal liability.
Prerequisites: ENG 111 and successful completion of the CUNY Assessment Test in Math or the equivalent

BUS 200 Introduction to International Business
4 hours; 4 credits
An examination of international business in relation to technological, competitive, economic, legal, social, and cultural factors. Introduction to the use of the Internet to develop the latest information for course assignments. Major areas of analysis include the evolution of international business, the ongoing development of opportunities in international business, the growth in global e-commerce, and the responses of multinational firms to these opportunities. Introduction to international aspects of the traditional business functions of marketing, finance, management, and accounting.
Pre- or corequisites: (ECO 101 or ECO 112) and (MGT 110 or MKT 111)

ISI 205 Data Communications and IT Infrastructure
4 hours; 4 credits
This course covers topics related to both computer/systems architecture and communication networks, with an overall focus on IT infrastructure services and capabilities. Includes organizational computing infrastructure components and architecture such as hardware, operating systems, networking, data centers, cloud-based systems, Service Oriented Architecture, mobile infrastructure, and others. Also includes internet protocols and infrastructure standards, security and risk management. Not open to students who have completed BUS 205.
Prerequisite: MTH 123 or higher and BUS 215

BUS 210 Government Policy and Multinational Enterprises
4 hours; 4 credits
This course examines the major issues affecting relations between multinational enterprises (MNEs) and home and host governments. Students will be exposed to the processes by which conflicting interests are resolved. The impact of international controls on MNEs by the United Nations (UN), Organization for Economic Cooperation and Development (OECD), and the European Economic Community (EEC) will be examined in detail. (Offered only at the American University of Rome.)
Prerequisites: MGT 110 or BUS 100 and POL 100 or POL 240

BUS 211 Communications in a Corporate Setting
(Also COM 211)
4 hours; 3 credits
An introduction to types of communication in business settings. These will include oral communication (with presentations) and written communication both within the organization as well as to external recipients (such as investors, government agencies, and the community). Data communication both for internal needs and for external needs will be covered. Security for all types of communication will be discussed. This course will help students to master effective professional communication through skills development and applications in diverse organizational contexts.
Prerequisites: ENG 151 and BUS 150 or BUS 215 or BUS 250 or CSC 102

BUS 215 Information Management
4 hours; 4 credits
An introduction to the use and application of Business Information Systems and Technology. It examines how information technologies support business functions, satisfy management needs, and promote collaboration. Students analyze and develop methods of information technology management for organizational effectiveness, strategic advantage, and value creation for different types of organizations. They discuss the impact of information technology on individuals, organizations, and society. Students apply information technology and management concepts and skills to solve practical business problems.
Prerequisites: MGT 110

BUS 230 Quantitative Analysis of Business and Economic Problems
(Also ECO 231)
3 hours; 3 credits
The application of mathematical techniques to business and economic problems. An introduction to operations research, linear programming, PERT, and related materials.
Prerequisites: MGT 110 and MGT 230
BUS 238  Ethical Issues in Business and Society
(also PHL 238)
4 hours; 4 credits
Critical examination of economic and social responsibility of business in the U.S. and around the world; exploration of the appropriate scope of ethical involvement from the points of view of management and society; the limitations of responsibility and the establishment of ethical criteria for the evaluation of business performance; the role of public policy in shaping corporate responsibility; consideration of ethical issues arising from the changing nature and implementation of computer and information technology.
Prerequisites: ENG 111; PHL 101 or PHL 130 or MGT 110 or sophomore standing

BUS 250  Computers in Information Processing
2 class hours, 2 laboratory hours; 3 credits
A business-oriented approach to the use of computers in the management of information systems. Study of hardware and software concepts as they relate to solving problems and making decisions in business organizations. Use of advanced software options and applications. The laboratory component will involve projects utilizing widely used office productivity software available on microcomputers including spreadsheets, databases, presentations, and other software.
Prerequisites: ACC 114 and BUS 150 or BUS 215 or CSC 102 or passing score on a departmental placement test demonstrating basic proficiency in Windows, word processing, spreadsheets, databases, data presentations, and computer concepts

BUS 260  Business Law II
3 hours; 3 credits
The study of the Law of Sales, commercial paper (negotiable instruments), documents of title, and partnership. The lecture and case study methods will be employed.
Prerequisite: BUS 160

BUS 310  International Trade
4 hours; 4 credits
This course presents an integrated treatment of theory, policy, and enterprise in international trade and investment. The course is directed toward the acquisition of knowledge and understanding of these subjects. Among the topics to be investigated are: foreign exchange rates, balance of payments, tariff and non-tariff trade barriers. (Offered only at the American University of Rome.)

ISI 315  Information Security and Risk Management
4 hours; 4 credits
This course is an introduction to the principles of information risk analysis, security controls, security planning and management. This course provides the foundation for understanding the key technical and managerial issues associated with cyber threats and risks to information assets, security and compliance requirements, faced by IT-intensive business environments. It covers methodologies for risk assessment, security planning, mechanisms for protection against risks and responses to security incidents, maintaining acceptable risks and compliance requirements and procedural ethics. Not open to students who have taken BUS 315.
Prerequisite: BUS 215

ISI 334  Business Intelligence and Analytics
4 hours; 4 credits
This course introduces the tools and techniques of data analytics for gaining business intelligence to support reliable decision making. It introduces data warehouse and data marts concepts and data mining techniques for analytical reporting, trend analysis, performance analysis, what-if analysis, and predictive analysis. Students will learn the different aspects of business data analytics, such as identifying data sources, extracting, combining, exploring, analyzing, modeling, visualizing, and interpreting data. Not open to students that have completed BUS 334.
Prerequisites: CSC 315 and ECO/MGT 230

ISI 352  Introduction to Systems Analysis and Design
4 hours; 4 credits
The course covers the concept of IS system development life cycle and introduces methodologies for addressing business needs, articulating business requirements for technology solutions, specifying alternative approaches to acquiring technology capabilities needed to address business requirements, and specifying the requirements for information systems solutions. Not open to students that have completed BUS 352.
Prerequisites: CSC 315 and ACC 114

BUS 360  Business Law III
3 hours; 3 credits
The study of the law of corporations, estates, trusts and wills, regulation of employment, and securities regulations (Federal Securities Acts) will be covered in depth. Trade regulation, consumer protection, constitutional law, administrative law, criminal law, intentional torts, negligence, and strict liability will be discussed. The lecture and case study methods will be employed.
Prerequisite: BUS 260

BUS 405  Applied Concepts in Information Systems
(Also CSC 405)
3 lecture hours, 3 laboratory hours; 4 credits
Examination of applied concepts in information systems. Theory and methodology for the design, development, and implementation of large-scale reliable business software projects, and tools and techniques for managing business software projects will be discussed. Presentations and GUI interfaces will be emphasized.
Prerequisites: CSC 326 and BUS 352

BUS 410  Media Administration
(Also COM 410)
4 hours; 4 credits
A course dealing with the skills and concepts necessary for the competent management of a media production department. Topics include production planning and con-
trol, cost analysis procedures, contract and copyright law in relation to the media, and organization theory.
Prerequisites: COM 150, and COM 261 or COM 270 or CIN 111

**BUS 415 Global Strategy and Decision Making**
4 hours; 4 credits
This advanced course builds on lower level Business courses and is recommended for all students enrolled in the Business degree with a concentration in International Business. Students will have the opportunity to integrate earlier learning in the concentration to analyze business problems, develop strategies and policies and make specific business decisions. Students will choose a market and product and develop a full global business plan taking into account global and country macro and micro factors, ethical and cultural considerations, trade theory and knowledge from all functional areas.
Prerequisites: Successful completion of the CUNY Assessment Test in Reading and the CUNY Assessment Test in Writing and ECO 101 or ECO 111 and ECO 112

**FNC 240 Managerial Finance I**
(Also ECO 240)
3 hours; 3 credits
Examination of securities markets, analysis of methods of long-term financing, financial ratio analysis, budgeting, current asset management, present value concepts, capital budgeting, cost of capital, and dividend policy.
Prerequisites: ECO 101 or ECO 111 and ECO 112
Pre- or corequisite: ACC 121 and MTH 121 or higher

**FNC 300 International Finance**
(Also ECO 370)
4 hours; 4 credits
The financial interrelationships between countries. Analysis of balance of payments, fixed and flexible exchange rates, the role of international reserves. Historical trends in payments and exchange; implications of the rise of the multinational corporation; current international policy problems facing the United States, other developed nations, and underdeveloped nations, and current institutional changes designed to meet them.
Prerequisite: FNC/ECO 240

**Finance Courses**

**FNC 111 Personal Financial Management**
3 hours; 3 credits
Discussion of the problems involved in handling personal financial matters. Topics will include managing credit and money, financial planning, asset allocation, taxes, life insurance, investments and securities, annuities, wills, trusts, retirement and estate planning, and budgeting.
Prerequisites: ENG 151 and MTH 015 or MTH 020 or higher or equivalent score on CUNY Mathematics Assessment Test.

**FNC 213 Money and Capital Markets**
(Also ECO 213)
4 hours; 4 credits
The course examines financial markets from the standpoint of investors and users. Markets studied are those for money market instruments, T-bill futures, Ginnie Mae futures, T-bond futures, stocks, stock options, bonds, mortgages, and Eurocurrencies. Federal Reserve operations, U.S. Treasury operations, and international financing are considered with regard to their effects on financial markets.
Prerequisites: Successful completion of CUNY Assessment Test in Reading and the CUNY Assessment Test in Writing or equivalent and ECO 101 or ECO 111 and ECO 112

**FNC 214 Money and Banking**
(Also ECO 214)
4 hours; 4 credits
An analytical, institutional, and historical examination of the monetary systems of the United States. Particular attention will be paid to the operation of commercial banks, and to the powers, purposes, and performance of the Federal Reserve System. The influence of the quantity of money on the level of economic activity will be considered.
Prerequisites: Successful completion of the CUNY Assessment Test in Reading and the CUNY Assessment Test in Writing and ECO 101 or ECO 111 and ECO 112

**FNC 240 Managerial Finance I**
(Also ECO 240)
3 hours; 3 credits
Examination of securities markets, analysis of methods of long-term financing, financial ratio analysis, budgeting, current asset management, present value concepts, capital budgeting, cost of capital, and dividend policy.
Prerequisites: ECO 101 or ECO 111 and ECO 112
Pre- or corequisite: ACC 121 and MTH 121 or higher

**FNC 300 International Finance**
(Also ECO 370)
4 hours; 4 credits
The financial interrelationships between countries. Analysis of balance of payments, fixed and flexible exchange rates, the role of international reserves. Historical trends in payments and exchange; implications of the rise of the multinational corporation; current international policy problems facing the United States, other developed nations, and underdeveloped nations, and current institutional changes designed to meet them.
Prerequisite: FNC/ECO 240

**FNC 315 Monetary Theory and Policy**
(Also ECO 315)
4 hours; 4 credits
Theoretical and applied problems of monetary policy. Emphasis is placed on contemporary developments. Current controversies concerning the use of monetary policy, relationship to fiscal policy, and impact on economic activity.
Prerequisites: ECO 212 and either ECO/FNC 213 or ECO/FNC 214

**FNC 345 Managerial Finance II**
(Also ECO 345)
4 hours; 4 credits
Working capital management, current asset management, sources of short-term financing, financial structure and use of leverage, valuation and rates of return, dividend policy and internal financing, mergers and acquisitions, and liquidation; includes computer lab for solving financial management problems.
Prerequisites: FNC/ECO 240 and MGT/ECO 230

**FNC 350 Advanced Corporate Finance**
4 hours; 4 credits
A case problem approach to business policy including a theoretical and practical study of assets and liabilities, capital management, financial markets, and the legal concepts of corporate finance. Problems in industry structure, mergers, and acquisitions.
Prerequisite: FNC/ECO 345

**FNC 360 Investment Analysis**  
(Also ECO 360)  
4 hours; 4 credits  
Survey of principles governing the investment of individual and institutional capital funds: the theory and mechanics of investments; general analysis and valuation procedures including quantitative and qualitative tests for judging security values; valuation of fixed income securities and common stocks. Introduction to the analysis of industrial, public utility, and government securities. Management of an individual investor’s portfolio.  
Prerequisites: FNC/ECO 345 and FNC/ECO 213 or FNC/ECO 214

**FNC 415 Derivatives and Risk Management**  
4 hours; 4 credits  
Advanced financial market course focused on derivative investment vehicles. Survey of derivative investments (options, futures, forwards, and swaps) in detail; review of options and futures markets; review of option pricing models such as the Binomial Model and the Black-Scholes-Merton Model; advanced derivatives portfolio management and strategies involving future, forwards, and swaps; risk management techniques and applications. The student will also simulate trading and management strategies learned using a portfolio simulator.  
Prerequisite: ECO 360/FNC 360

**FNC 416 Mathematics of Finance**  
(Also MTH 416)  
4 hours; 4 credits  
Introduction to the mathematical theory of derivative pricing, binomial trees and martingales, Black-Scholes formula, stochastic differential equations, Itô calculus, and Girsanov theorem.  
Prerequisite: MTH 311

**Management Courses**

**MGT 110 Organizational Theory and Management**  
3 hours; 3 credits  
The course introduces key management functions including planning, organizing, leading, and controlling. It also provides introduction to management concepts including organizational structure, culture, decision making, leadership, motivation, and groups and teams.  
Prerequisites: ENG 111, MTH 030, or permission of the Mathematics Department or an appropriate score on the CUNY Math Assessment Test.

**MGT 210 Management Process**  
4 hours; 4 credits  
Advanced study of organizational structure and practice in light of management theory. Management functions: planning, organizing, and controlling, along with the secondary functions of staffing, personnel management, and external representation will be studied.  
Prerequisites: MGT 110, ECO 101 or ECO 111, ACC 114

**MGT 223 Public Administration**  
(Also POL 223)  
4 hours; 4 credits  
A course examining concepts in the execution of public policy. Relationships of administrative process to the executive, legislative bodies, the public, special interest groups, the clientele, and the courts. Considers personnel administration and administrative law and regulation.  
(social science)  
Prerequisite: ENG 111, COR 100

**MGT 230 Introduction to Managerial and Economic Statistics**  
(Also ECO 230)  
4 hours; 4 credits  
Development and application of modern statistical methods, including such elements of descriptive statistics and statistical inference as correlation and regression analysis, probability theory, sampling procedures, normal and binomial distributions, estimation, and testing of hypotheses.  
Prerequisites: Successful completion of CUNY Assessment Test in Writing and the CUNY Assessment Test in Reading, and (ECO 101 or ECO 111 or ECO 112) and (MTH 121 or MTH 123 or higher) and (BUS 150 or BUS 215 or BUS 250 or CSC 102 or CSC 126)

**MGT 261 Labor Relations**  
(Also ECO 261)  
4 hours; 4 credits  
History, theories, structure, and objectives of trade unionism. Grievance procedures, collective bargaining, union power, strikes and other weapons, mediation and arbitration. Government regulation of the labor sector. Students will participate in the reenactment of actual arbitration cases.

**MGT 314 Small Business Management**  
4 hours; 4 credits  
An overview of the entrepreneur: definition, traits, and development; the role of the entrepreneur in our society and importance to the economy; the launching of a new venture; managing an ongoing venture; planning, financing, staffing, and control.  
Prerequisite: MGT 110, MKT 111

**MGT 320 Management of Organizational Behavior**  
4 hours; 4 credits  
A systematic, analytical approach to understanding, predicting, and controlling human behavior in organizations. Consideration is given to the individual and the organization, groups and the organization, organizational development and leadership.  
Prerequisites: MGT 110, ECO 101 or ECO 111

**MGT 321 Production Management**  
4 hours; 4 credits  
Examines the theory and application of decision analytics to management. Includes a detailed review of the concepts, techniques, models, and software used to analyze business problems. Students will familiarize themselves with the concepts and methods for improving operational performance on three key dimensions: productivity, re-
MGT 322 Human Resource Administration
4 hours; 4 credits
The course provides an introduction to the functions of the personnel executive. A historical and theoretical background is provided. Stress is placed upon the technical, analytical, and legal skills necessary in performing the job itself. Specific topics include recruiting and selecting, employee development, reward and penalty systems, job descriptions, records, and industrial relations.
Prerequisite: MGT 110

MGT 323 Public Policy Analysis
(Also POL 323)
4 hours; 4 credits
A study of how government deals with problems in such areas as health, energy, environment, education, crime, and economic stability. In addition to focusing on substantive policies in these fields, the course will examine how problems come to government’s attention and analyze various techniques for determining whether a governmental program is successful.
Prerequisite: POL 100 or ECO 101

MGT 324 Introduction to Econometrics
(Also ECO 323)
4 hours; 4 credits
This course will examine the relationship between economic theory and statistical measurement. It will deal mainly with the general linear regression and correlation model. A selected number of other statistical tools will also be treated. Emphasis will be on the understanding of the concepts rather than on their mathematical derivation.
Prerequisites: ECO 111, ECO 112, ECO/MGT 230

MGT 325 International Management
4 hours; 4 credits
An examination of international management in relation to the international environment, cultural differences, and effective management strategies across cultures. Major areas of analysis including current worldwide developments, multiculturalism in organizations, managing a multicultural workforce, the role of culture and communication in international management, comparative country and culture analysis, international and multidomestic strategic management practices, and cross-cultural ethical dilemmas. NOTE: Not open to students who have taken MGT 425.
Prerequisites: MGT 110 and (BUS 200 or MGT 210)

MGT 326 Sports Management
4 hours; 4 credits
An examination of sports management. Major topics include the history of sports, the emergence of organized sports, and the major elements of sports management including organizational design, leadership, financing, and promotion. Consideration is also given to the role of legal issues, risk management, and ethics in the current environment.

Prerequisites: MGT 110 and MKT 111

MGT 339 Administrative Law
(Also POL 339)
4 hours; 4 credits
Emphasizes the judicial, legislative, and executive control of decisions made by bureaucrats. Topics such as the possibility and scope of judicial review of administrative decision making; ripeness for review and exhaustion of administrative remedies; and the legislative veto. The Administrative Procedure Act’s requirements for rule making and adjudication will also be analyzed.
Prerequisite: POL/MGT 223 or POL 336 or POL 338

MGT 410 Business Policy
4 hours; 4 credits
This course focuses on the introduction and application of the concepts, theories, and frameworks of strategic management. Students will learn to analyze a firm’s internal and external environment and formulate strategy on the functional and business level. Students will also be introduced to corporate-level strategy and strategy implementation including ethics.
Prerequisites: Completion of the business pre-major requirements and junior or senior standing

MGT 416 Capstone Business Simulation
4 hours; 4 credits
Emphasis is placed on the integration of decisions within and between functional areas. Students participate in a semester long business simulation that builds upon prior courses and provides opportunities to synthesize theory and practice in a realistic setting. Students gain experience managing a simulated company and dealing with issues in accounting, finance, marketing, production, research and development, ethics and human relations.
Prerequisites: Completion of the business pre-major requirements and senior standing

MGT 423 The Collective Bargaining Process
4 hours; 4 credits
Prerequisite: MGT 261

Marketing Courses

MKT 111 Marketing
3 hours; 3 credits
Survey of the nature of the United States distributive system, covering the principles, policies, and practices used by manufacturers, wholesalers, and retailers. Emphasis is placed on the planning, development, and efficient use of marketing tools and institutions in the creation and expansion of markets. Current trends and developments in modern marketing practice are analyzed.
Prerequisites: ENG 111, and MTH 025 or MTH 030, or permission of the Mathematics Department or the equivalent score on the CUNY Math Assessment Test.

MKT 211 Advertising
4 hours; 4 credits
The course examines the principles and applications of advertising in modern business, details the procedures and techniques necessary for advertising campaigns and execution via preparation of a marketing/advertising plan, and stresses marketing/advertising strategy. Evaluation of social and ethical responsibilities of advertising. Prerequisite: MKT 111

MKT 310 Consumer Behavior
4 hours; 4 credits
The study of consumer behavior from a theoretical and practical standpoint. The course seeks to understand the role of the behavioral sciences (e.g., anthropology, sociology, psychology) in buying behavior and to integrate the theoretical world of the behavioral sciences with the practical world of marketing. Social, interpersonal, and mediating influences are examined and evaluated as a basis for marketing decisions. Prerequisites: MKT 111, PSY 100 or SOC 100.

MKT 360 Internet Marketing
4 hours; 4 credits
This course is an introduction to the use of the Internet and electronic commerce as a marketing tool. A major team project will require students to develop a marketing plan along with a website for a new or existing product or service. Data collection as well as legal and ethical issues, including security, surrounding commerce in a Web-mediated environment will be discussed. Prerequisites: MKT 111 and (BUS 150 or BUS 215 or BUS 250 or CSC 102).

MKT 410 Marketing Research
4 hours; 4 credits
Encompasses survey of research processes, problem formulation, the types of problems for which market research is used, primary and secondary data collection methods, questionnaire design, and sampling plans. Analysis and interpretation of data and research report formats. Prerequisites: MKT 111, MGT/ECO 230, and MKT 211 or MKT 310.

MKT 320 International Marketing
4 hours; 4 credits
An analytical approach to solving international business problems considering the multiple environments of international business. This course requires the student to investigate the relationship of marketing strategy to cultural, economic, legal, political, and technological conditions in various national markets. NOTE: Not open to students who have taken MKT 415. Prerequisites: MKT 111.

MKT 325 Advertising Buying Strategy
4 hours; 4 credits
Examines the role and application of advertising media in marketing strategies. Includes a detailed analysis of the strategic factors that link marketing planning, target market characteristics, and media selection. Students learn how to determine which media vehicles will deliver an advertising message to a given target audience most effectively. Students will receive instruction in effective media planning and buying and will practice the design and implementation of advertising media plans. Prerequisite: MKT 211.

MKT 370 Advanced Marketing Strategy
4 hours; 4 credits
The application of marketing theories, models, and techniques to develop fully integrated marketing plans in response to a case competition conducted by a major marketing association. Prerequisites: Completion of pre-major business requirements, senior standing with 90 or more credits and permission of the instructor.

MKT 420 Marketing Management
4 hours; 4 credits
The course focuses on the major decisions facing marketing management in its attempt to harmonize the objectives and resources of the company with the opportunities found in the marketplace. The course is analytical in nature and draws heavily on the basic disciplines of economics, behavioral science, and mathematics. Prerequisites: Completion of business core requirements, MKT 310, senior standing.

MKT 490 Marketing Seminar
3 hours; 3 credits
The use of a selected broad-gauge marketing topic as a focal point for the semester’s work to bring about an integration of concepts and knowledge from a number of related disciplines. New ways of thinking about problems faced by marketing management are sought. Individual study by each student of a specific topic and preparation of a report giving the results of research. Prerequisites: Completion of business core requirements, senior standing, and permission of the instructor.

Chemistry

(Bachelor of Science, Minor; see Graduate Catalog for information on graduate programs)
Department of Chemistry, Building 6S, Room 236
Chairperson and Professor Qiao-Sheng Hu

A degree in chemistry or biochemistry is essential to anyone interested in working in the chemical or pharmaceutical industries and in related fields such as teaching and chemical sales. The degree affords the opportunity to participate in pure chemical research, product development, marketing, and sales. A student with a BS in Chemistry may branch out and become involved in government jobs in geochemistry, toxicology, and environmental chemistry. The Chemistry major also might elect to work in the more medically oriented fields such as pharmacology, biochemistry, bioengineering, or medicinal chemistry or to enter the teaching profession. For students who wish to pursue graduate study in the sciences or enter professional schools (medicine, dentistry, optometry, pharmacy), a BS degree in Chemistry or Biochemistry is viewed quite favorably by admissions committees.
**Chemistry (BS)**

**Pre-Major Requirements:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 141</td>
<td>General Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHM 121</td>
<td>General Chemistry I Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>CHM 142</td>
<td>General Chemistry II</td>
<td>1</td>
</tr>
<tr>
<td>CHM 127</td>
<td>General Chemistry II Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>PHY 120</td>
<td>General Physics I</td>
<td>3</td>
</tr>
<tr>
<td>PHY 121</td>
<td>General Physics I Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>PHY 160</td>
<td>General Physics II</td>
<td>3</td>
</tr>
<tr>
<td>PHY 161</td>
<td>General Physics II Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>MTH 229</td>
<td>Calculus Computer Laboratory</td>
<td></td>
</tr>
<tr>
<td>MTH 230</td>
<td>Calculus I and Pre-Calculus</td>
<td></td>
</tr>
<tr>
<td>MTH 231</td>
<td>Analytic Geometry and Calculus I</td>
<td></td>
</tr>
<tr>
<td>MTH 232</td>
<td>Analytic Geometry and Calculus II</td>
<td></td>
</tr>
<tr>
<td>MTH 233</td>
<td>Analytic Geometry and Calculus III</td>
<td></td>
</tr>
<tr>
<td>MTH 235</td>
<td>Accelerated Calculus I</td>
<td></td>
</tr>
<tr>
<td>MTH 236</td>
<td>Accelerated Calculus II</td>
<td></td>
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**Major Requirements:**

<table>
<thead>
<tr>
<th>Track 1</th>
<th>40 credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>This track will lead to an ACS Accredited BS in Chemistry</td>
<td></td>
</tr>
<tr>
<td>CHM 240</td>
<td>Quantitative Chemistry</td>
</tr>
<tr>
<td>CHM 250</td>
<td>Organic Chemistry I</td>
</tr>
<tr>
<td>CHM 256</td>
<td>Organic Chemistry II</td>
</tr>
<tr>
<td>CHM 330</td>
<td>Physical Chemistry: Equilibria</td>
</tr>
<tr>
<td>CHM 336</td>
<td>Physical Chemistry: Processes</td>
</tr>
<tr>
<td>CHM 337</td>
<td>Experimental Methods in Physical Chemistry</td>
</tr>
<tr>
<td>CHM 360</td>
<td>Inorganic Chemistry</td>
</tr>
<tr>
<td>CHM 370</td>
<td>Biochemistry I</td>
</tr>
</tbody>
</table>

**Two additional chemistry electives from the following list:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 340</td>
<td>Instrumental Methods of Chemical Analysis</td>
<td>4</td>
</tr>
<tr>
<td>CHM 350</td>
<td>Advanced Organic Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>CHM 376</td>
<td>Biochemistry II</td>
<td>4</td>
</tr>
<tr>
<td>CHM 594</td>
<td>Independent Study for Honors Research</td>
<td>4</td>
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</tbody>
</table>

**Track 2**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 240</td>
<td>Quantitative Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>CHM 250</td>
<td>Organic Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHM 256</td>
<td>Organic Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>CHM 330</td>
<td>Physical Chemistry: Equilibria</td>
<td>4</td>
</tr>
<tr>
<td>CHM 336</td>
<td>Physical Chemistry: Processes</td>
<td>4</td>
</tr>
<tr>
<td>CHM 337</td>
<td>Experimental Methods in Physical Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>CHM 360</td>
<td>Inorganic Chemistry</td>
<td>4</td>
</tr>
</tbody>
</table>

**Two additional chemistry electives at the 300- or 400-level:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
</table>

All Chemistry majors are encouraged to take an Independent Study course (CHM 591-594) as an elective.

**Total Credits Required: 120**

Transfer students are expected to fulfill their advanced major requirements (300-level and higher) at the College of Staten Island.

**Honors**

A student may be eligible for admission to the honors program in Chemistry if he or she enters the senior year with a 3.5 grade point average. With the concurrence of a faculty supervisor, the student must submit (by September 15) a one-page summary of a proposed research project. The chairperson of the Department and the faculty supervisor will appoint a three-member committee to evaluate and/or modify the proposal (by October 15), then grant or deny admission to the honors program.

While pursuing honors research the student may receive eight credits for Independent Study (CHM 594), four each in the fall and spring semesters. Additionally, it is highly recommended that the student begin work on the project during the summer or spring semester that immediately precedes the senior year. Progress of the research will be monitored as follows: (1) the student will meet with his or her committee by November 1 of the first semester; (2) the student will submit a five-page progress report by January 15; (3) the committee will recommend for or against continuation in the program by February 1; (4) the student will submit a thesis, following the style of major journals, by May 1; (5) the student will present an oral defense of the thesis to the committee by the end of the final exam period.

The deadline dates noted above are based on a June graduation date, but corresponding guidelines may be designed for January graduation. In either case, it is expected that completion of the honors program will require at least one year of student research.

**Preparation for Teaching (Grades 7-12)**

See also Education/Adolescence Education. Students who wish to be recommended for New York State certification for teaching science at the secondary level (grades 7 - 12) must complete all general education, pre-major, and major requirements for the Chemistry BS. For admission and continuation in the education sequence and all education courses (EDC, EDE, EDS) students must have a minimum cumulative GPA of 3.0. Students must also include as electives the following Adolescence Education (EDS) course sequence offered by the Department of Education (24 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDS 201</td>
<td>Social Foundations of Secondary Education</td>
<td>4</td>
</tr>
<tr>
<td>EDS 202</td>
<td>Psychological Foundations of Secondary Education</td>
<td>4</td>
</tr>
<tr>
<td>EDS 304</td>
<td>The Pedagogy of Secondary School in Science</td>
<td>4</td>
</tr>
<tr>
<td>EDS 318</td>
<td>The Secondary School Curriculum in Science</td>
<td>4</td>
</tr>
<tr>
<td>EDS 400</td>
<td>Student Teaching in Secondary Education</td>
<td>6</td>
</tr>
<tr>
<td>EDS 401</td>
<td>Reflection and Analysis in Student Teaching in Secondary Education</td>
<td>2</td>
</tr>
</tbody>
</table>

**NOTE:** EDP 220 is required for NYS Teacher Certification.
tion. Students are encouraged to take this course prior to graduation.

See the Catalog section on Education for additional requirements.

Chemistry Minor

Minor
Prerequisite courses:
CHM 141, 121, 142, 127  8 credits
Requirements:
CHM 240  Analytical Chemistry
or
CHM 340  Instrumental Analysis  4 credits
CHM 250  Organic Chemistry I  4 credits
CHM 256  Organic Chemistry II  4 credits
and
One 300 level or above chemistry course  4 credits

Chemistry Courses

CHM 100  Introduction to Chemistry
3 lecture hours, 1 recitation hour; 3 credits
Course material includes matter and energy, atoms and molecules, the periodic table, nomenclature, equations, mole concept, stoichiometry, solutions.
Prerequisite: MTH 020 or MTH 030
Corequisite: CHM 101

Note: This course is intended for those students who have had no previous chemistry and for those returning to the subject after some years. The course is designed to prepare students for entry into CHM 141.

CHM 101  Introduction to Chemistry Laboratory
2 hours; 1 credit
A laboratory course emphasizing basic chemical laboratory techniques. The experiments provide illustrations of concepts discussed in CHM 100. Use of computer software for laboratory data analysis and computer-assisted instruction.
Corequisite: CHM 100

CHM 104  Chemistry in a Nutshell
3 hours; 3 credits
This combined lecture and laboratory course will introduce students to basic chemical concepts including atomic theory, the nature of molecules, chemical formulae and equations, bonding, gas laws, nuclear chemistry, oxidation-reduction, and acids and bases. Laboratory classes will accompany the lecture topics to illustrate the various topics introduced in the lecture. (science) (RLPR) NOTE: This course is not recommended for students currently enrolled in or planning to pursue a BA, BFA, or BS degree.
Prerequisite: MTH 020

CHM 106  Chemistry for Today I
3 hours; 3 credits
Basic chemical concepts including atomic theory, the nature of molecules, chemical formulae and equations, bonding, gas laws, nuclear chemistry, oxidation-reduction, and acids and bases. (science) (RLPR)
Prerequisite: MTH 020 or an appropriate score on the CUNY Mathematics Assessment Test
Corequisite: CHM 107

CHM 107  Chemistry for Today I Laboratory
2 laboratory hours; 1 credit
Laboratory experiences illustrating principles and topics discussed in CHM 106. (science) NOTE: This course has a material fee.
Pre- or corequisite: CHM 106

CHM 108  Chemistry for Today II
3 hours; 3 credits
A continuation of CHM 106. Topics will be chosen from among the following: fossil fuels and pollution, human-kind’s effect on the environment, food additives, household chemicals, the chemistry of drugs and the human mind, farm chemistry, and plastics. (science)
Prerequisite: CHM 106
Corequisite: CHM 109

CHM 109  Chemistry for Today II Laboratory
2 laboratory hours; 1 credit
Laboratory experiences illustrating principles and topics discussed in CHM 108. (science) NOTE: This course has a material fee.
Pre- or corequisite: CHM 108

CHM 110  Principles of Chemistry I
3 hours; 3 credits
Modern concepts of the atom and chemical bonding, chemical calculations, states of matter, chemistry of water, purification of water, types of solutions, acids and bases, nuclear chemistry, and radioactivity. The concepts necessary for an understanding of our technological society are developed. (science) (RLPR) (STEM)
Prerequisite: MTH 020 or an appropriate score on the CUNY Mathematics Assessment Examination Test
Corequisite: CHM 111

CHM 111  Principles of Chemistry I Laboratory
2 laboratory hours; 1 credit
Experiments illustrating principles studied in CHM 110. (science) (STEM) NOTE: This course has a material fee.
Prerequisite: MTH 020 or an appropriate score on the CUNY Mathematics Assessment Test
Corequisite: CHM 111

CHM 116  Principles of Chemistry II
3 hours; 3 credits
Chemistry and biochemistry of carbon compounds. A study of the nomenclature, structure, properties, and reactions of organic and biochemical compounds. A number of special topics are discussed, some of which are the petroleum industry, giant molecules (synthetic and biopolymers), environmental chemistry, drugs, and oral contraceptives. (science) (FSWR) (STEM)
Prerequisites: CHM 110 and 111
Corequisite: CHM 117

CHM 117  Principles of Chemistry II Laboratory
2 laboratory hours; 1 credit
Laboratory experiments concerned with the synthesis, isolation, and purification and analysis of a variety of or-
ganic and biochemical compounds of the types consid-
ered in CHM 116. (science) (STEM) NOTE: This course
has a material fee.
Prerequisites: CHM 110 and 111
Corequisite: CHM 116

CHM 121 General Chemistry I Laboratory
3 laboratory hours; 1 credit
Experiments reinforce important chemical concepts dis-
cussed in lectures, teach modern lab techniques, and
emphasize present-day interpretations of lab measure-
ments. (science) (STEM) NOTE: This course has a mate-
rial fee.
Pre- or corequisite: CHM 141

CHM 127 General Chemistry II Laboratory
3 laboratory hours; 1 credit
A continuation of CHM 121. Inorganic qualitative analy-
sis. (science) (STEM) NOTE: This course has a material
fee.
Prerequisite: CHM 121
Pre- or corequisite: CHM 142

CHM 141 General Chemistry I
3 lecture hours, 1 recitation hour; 3 credits
A study of the fundamental principles and laws concern-
ing the structure and behavior of matter. The first semes-
ter covers atomic and molecular structure, chemical
bonding, reactions, stoichiometry, and the gaseous, liq-
uid, and solid states of matter. (science) (RLPR) (STEM)
Prerequisite: One year of high school Chemistry or CHM 100
Corequisite: CHM 121

Note: Students are advised that satisfactory completion
of one year of high school chemistry or a college-level
introductory chemistry course is essential preparation
for this course.

CHM 142 General Chemistry II
3 lecture hours, 1 recitation hour; 3 credits
A continuation of CHM 141. Solution properties, reaction
rates, equilibrium processes, thermochemistry and ther-
modynamics, electrochemistry, nuclear and organic
chemistry. (science) (FSWR) (STEM)
Prerequisite: CHM 141
Corequisite: CHM 127

CHM 240 Analytical Chemistry
4 class hours, 4 laboratory hours; 4 credits
A study of the quantitative aspects of chemical changes,
chemical equilibria, the stoichiometry and energetics of
chemical reactions. Theory and laboratory in volumetric,
optometric, electrostatic, and kinetic methods of chem-
ical analysis. An introduction to instrumental methods of
analysis. (FSWR) (STEM) NOTE: This course has a mate-
rial fee.
Prerequisites: CHM 142 and 127

CHM 250 Organic Chemistry I
3 class hours, 4 laboratory hours; 4 credits
The structure and properties of organic compounds are
examined. Emphasis is given to reactions and synthesis
of aliphatic and aromatic molecules. Stereochemistry and
organic reaction mechanisms are introduced and thor-
oughly discussed. (FSWR) (STEM) NOTE: This course has a material fee.
Prerequisites: CHM 142 and CHM 127

CHM 256 Organic Chemistry II
3 class hours, 4 laboratory hours; 4 credits
A continuation of CHM 250 with an emphasis on func-
tional group chemistry and bioorganic chemistry. By the
end of the two-semester sequence IR and NMR analysis
are discussed in detail in conjunction with classical
methods of structural determination. NOTE: This course
has a material fee.
Prerequisite: CHM 250

CHM 290 Introduction to Undergraduate Research in Chemistry
2 hours; 2 credits
An introduction to the design and execution of original
research in chemistry. This seminar course provides a
framework to guide the laboratory activities of students
who are beginning Independent Study courses with de-
partmental faculty members, including ethics, safety,
searching of the literature, planning of experiments, rec-
cording and interpretation of data, and presentation of
results in oral, poster, and written formats.
Prerequisites: CHM 142 and 127
Co- or prerequisite: CHM 592

CHM 330 Physical Chemistry: Equilibria
4 hours; 4 credits
Chemical thermodynamics and its application to phase
and chemical equilibria.
Prerequisite: MTH 233 or MTH 236, PHY 160, CHM 240

CHM 336 Physical Chemistry: Processes
4 hours; 4 credits
Kinetic theory and transport processes, introductory
quantum and statistical chemistry, atomic and molecular
spectroscopy, and chemical kinetics.
Prerequisite: MTH 233 or MTH 236, PHY 160, CHM 240

CHM 337 Experimental Methods in Physical Chemistry
8 hours; 4 credits
Introduction to techniques of physical measurement ap-
plied to chemical systems. Vacuum and gas handling
techniques, optico-chemical methods, transport and elec-
trochemical processes. NOTE: This course has a materi-
al fee.
Corequisite: CHM 330 or CHM 336

CHM 340 Instrumental Methods of Chemical Analysis
2 class hours, 4 laboratory hours; 4 credits
Fundamental considerations underlying the theory and
design of instrumental methods and procedures of analy-
sis. General treatment of the operating characteristics
of instruments. A consideration of ultraviolet-visible, infra-
red, nuclear magnetic, and electron spin resonance
spectroscopy; column and gas chromatography; flame
photometry; atomic absorption; polarography; fluorimetry;
radiochemical and thermal analysis; electrophoresis; and
other analytical methods. Basic instrumentation electron-
ics, including operational amplifiers, triodes, transistors, and transducers. NOTE: This course has a material fee. Prerequisites: CHM 142 and CHM 127, CHM 240

CHM 350 Advanced Organic Chemistry
4 hours; 4 credits
An introduction to the theory of bonding and structure; acids and bases; an introduction to physical organic chemical concepts and the application of these, together with stereochemical concepts, to the study of reaction mechanisms. Prerequisite: CHM 240 Pre or corequisite: CHM 330 or CHM 336

CHM 360 Inorganic Chemistry
3 class hours, 3 laboratory hours; 4 credits
The course covers general bonding theories of inorganic compounds, symmetry elements and point groups, acid-base properties, coordination chemistry and reaction mechanisms, organometallic chemistry, and an introduction to bioinorganic chemistry. Prerequisite: CHM 240 Pre or corequisite: CHM 330 or CHM 336 or CHM 340

CHM 370 Biochemistry I
(Also BIO 370)
4 hours; 4 credits
Biochemistry and the living state. Regulation of energy-yielding and energy-requiring reactions in cells. Molecular components of cells, enzyme mechanisms, bioenergetics, and an introduction to biosynthetic principles. Prerequisite: CHM 256 Pre or Corequisite: PHY 110 and PHY 111 or PHY 116 or PHY 120 and PHY 121

CHM 376 Biochemistry II
(Also BIO 376)
4 hours; 4 credits
Respiration, photosynthesis, membrane structure and transport, biosynthesis of macromolecules, biochemical genetics, and the regulation of metabolic activity in mammals. Prerequisite: CHM 370 or BIO 370 Pre or Corequisite: PHY 150 and PHY 151 or PHY 160 and PHY 161 or PHY 156

CHM 377 Experimental Biochemistry
8 laboratory hours; 4 credits
Through a study of a commonly occurring genetic defect, this course introduces students to biochemical concepts and techniques used in current research. Techniques used include protein purification, enzymology, Western blotting, RNA isolation, DNA isolation, PCR-amplification of mutated regions of genes, cloning of PCR products into vectors, culturing of mammalian brain cells, immunocytochemistry, and retrieving and processing of genetic information using various databases and software packages. NOTE: This course has a material fee. Prerequisite: CHM 240 or BIO 312 or BIO 352 Pre or Corequisite: CHM 370/BIO 370

CHM 442 Spectroscopy: Theory and Applications
4 hours; 4 credits
Theory and applications of molecular spectroscopy in gases and condensed phases, including rotation, vibration, electronic, and magnetic resonance techniques. Applications to structural problems in biochemistry and polymer chemistry. Pre or corequisite: CHM 330 or 336

CHM 443 Scanning Electron Microscopy and X-ray Microanalysis
(also BIO 443)
2 hours lecture, 4 hours laboratory; 4 credits
A course to familiarize undergraduate students with the principles and practices of scanning electron microscopy and x-ray microanalyses. The course content will focus on the SEM and its modes of operation, electron beam-specimen interactions, image formation, generation of x-rays, x-ray spectral measurement and quantitative x-ray analyses. The lecture will present the historical and theoretical backgrounds to these integrated topics, and the laboratory will provide hands-on experiences for biological, materials, and polymer samples. The designed experiments will allow students to apply the techniques learned in class to realistic systems, and the laboratory reports will help students develop the skill in scientific and technical writing. This course is directed toward advanced biology/chemistry students. Prerequisite: Permission of instructor

CHM 452 Polymer Chemistry
4 hours; 4 credits

CHM 592 Independent Study for Research
2 credits

CHM 594 Independent Study
4 credits
Intended for undergraduates including chemistry and biochemistry majors who are conducting independent study the guidance of a faculty mentor. At the end of the semester the student will submit a detailed written report in an ACS-journal style, documenting the results of the project, to the faculty mentor and the department head. Prerequisites: CHM 240 or CHM 250

Chinese

(Minor)
Department of World Languages and Literatures
Chairperson and Associate Professor Gerry Milligan, Building (2S), Room 109

All students with prior training in Chinese must take a proficiency examination to determine placement at an appropriate level.
Chinese Minor

Minor Requirements: 12 Credits
12 credits of courses in Chinese (CHN) at or above the 200 level.

Chinese Courses

CHN 101      Conversational Mandarin Chinese I
2 hours; 2 credits
This course is for those students interested in learning how to speak Mandarin Chinese to meet their educational and personal goals, or to address special needs in learning Mandarin. The course will focus on training the students' oral communicational skills through selected real-life situations and topics. The course will also introduce the phonetic system of Pinyin, some conversational skills, and sentence patterns. Cantonese or other dialect speakers can also use the course to practice the official Mandarin pronunciation and oral language. This course does not fulfill the general education requirement.

CHN 102      Conversational Mandarin Chinese II
2 hours; 2 credits
This course is for those students who have completed CHN 101 or have been placed into this level by the Department of World Languages and Literatures, and who are interested in continuing their studies of spoken Mandarin Chinese. The course will focus on training the students' oral communicational skills through selected real-life situations and topics. The course will continue to review the phonetic system of Pinyin, and teach additional conversational skills and sentence patterns. Cantonese or other dialect speakers can also use the course to practice the official Mandarin pronunciation and oral language. After completing this sequence, students may wish to take additional courses that focus on reading and writing. This course does not fulfill the general education requirement. 
Prerequisite: CHN 101

CHN 112      Beginning Mandarin Chinese I
3 hours; 3 credits
A beginning course in the fundamentals of expression and communication for those who have had no previous work in the language. Regular attendance in the World Languages and Literatures Media Center is required. Not open to students who have taken CHN 113 or CHN 120. (foreign lang.) (FWGR)
Prerequisites: Passing the CUNY Assessment Test in Reading.

CHN 113      Basic Mandarin Chinese I
4 hours; 4 credits
A beginning course in the fundamentals of Mandarin Chinese. The course will teach Pinyin, the standard pronunciation system, daily-life vocabulary, and basic sentence structures through real-life situations. The course will focus on developing basic skills and proficiency in listening, speaking, reading, and writing Mandarin Chinese, using a computer-assisted approach. (foreign lang.) Not open to students who have completed CHN 112.
Prerequisites: Passing the CUNY Assessment Test in Writing and the CUNY Assessment Test in Reading

CHN 114      Basic Mandarin Chinese II
4 hours; 4 credits
This is the second-semester beginning Chinese course. The course will review the Pinyin pronunciation system, build up daily-life vocabulary, and teach basic sentence structures through real-life situations. The course will continue to focus on developing basic skills and proficiency in listening, speaking, reading, and writing Mandarin Chinese, using a computer-assisted approach. (foreign lang.) NOTE: This course satisfies the College Option.
Prerequisites: CHN 112 or CHN 113 or placement. Passing the CUNY Assessment Test in Writing and the CUNY Assessment Test in Reading.

CHN 120      Intensive Mandarin Chinese I
6 hours; 6 credits
A beginning intensive course in the fundamentals of expression and communication for students with no previous knowledge of Mandarin and who are interested in pursuing upper-division courses in Mandarin Chinese. By the end of the semester the student will have completed a program that provides a strong basis in the functional literacy in Mandarin. (foreign lang.)
Prerequisites: Passing the CUNY Assessment Tests in Reading and Writing

CHN 213      Continuing Mandarin Chinese I
4 hours; 4 credits
This course is for those students who have successfully completed the second semester of Basic Mandarin Chinese or who have been placed into this intermediate level. Using computer-assisted technology, the course will further develop skills and proficiency in listening, speaking, reading, and writing in Mandarin Chinese. Greater emphasis will be placed on transitioning from spoken to written language. (foreign lang.)
Prerequisites: CHN 114 or placement. Passing the CUNY Assessment Test in Writing and the CUNY Assessment Test in Reading.

CHN 215      Continuing Mandarin Chinese II
4 hours; 4 credits
This course is for those students who have successfully completed the first semester of Continuing Mandarin Chinese (CHN 213) or who have been placed into this intermediate level. Using computer-assisted technology, the course will further develop skills and proficiency in listening, speaking, reading, and writing in Mandarin Chinese. Greater emphasis will be placed on transitioning from spoken to written languages. (foreign lang.)
Prerequisites: CHN 213 or placement. Passing the CUNY Assessment Test in Writing and the CUNY Assessment Test in Reading.

CHN 220      Intensive Mandarin Chinese II
6 hours; 6 credits
A continuing intensive course in the fundamentals of expression and communication for those who have successfully completed CHN 120 (Intensive Mandarin Chinese I), and are interested in pursuing upper-division
courses in the language. Particular emphasis will be placed on written and oral communication based on selected cultural readings. (foreign lang.)
Prerequisites: CHN 120

CHN 313 Advanced Communication Skills in Mandarin Chinese
4 hours; 4 credits
Refinement of oral and written expression through oral reports, composition, translation, and critical study of readings that are of advanced difficulty and involve more complex grammatical structures. (literature) (TALA)
NOTE: This course satisfies the College Option.
Prerequisites: CHN 215 or equivalent

CHN 315 Languages in Contrast: English and Chinese
(Also LNG 315)
4 hours; 4 credits
A systematic comparison of English and Chinese in various respects, e.g. phonology, morphology, syntax, information structure, and writing system. While the two languages differ from each other in many respects, which are the focus of this course, there are universals and general principles that hold true of both of them. The course is intended to cultivate students’ ability to appreciate the differences between the two languages on the one hand and to seek the principles that apply to both English and Chinese on the other. (literature) (TALA)
NOTE: This course satisfies the College Option.
NOTE: This course is taught in English and may not be used to satisfy the foreign language requirement.
Prerequisites: ENG 151 and completion of one semester of foreign language or linguistic course or exemption from the Foreign Language requirement of General Education.

Department of Media Culture, Center for the Arts (1P), Room 226
Chairperson and Professor David Gerstner
The program leading to the BA in Cinema Studies combines courses in film history, theory, and criticism with studies in film and video production. The guiding philosophy of the program is that future filmmakers will expand their creative possibilities through critical studies of film while those who write about film will enhance their work through an understanding of the filmmaking process. This combination of theory and practice prepares students for a variety of career opportunities in the film world.

Cinema Studies (BA)

I. Critical Studies Concentration

Pre-Major Requirements: 6 credits
Students planning to major in Cinema Studies must complete the following pre-major requirements:
CIN 100 Introduction to Film
CIN 111 Video I

Major Requirements: 39-43 credits
Students majoring in Cinema Studies must complete the following courses:
CIN 120 Video II 3 credits
CIN 210 Film Theory 4 credits
CIN 220 Film History 4 credits

A. Twelve credits in Film History, Theory & Aesthetics at the 200 level or higher chosen from the following: (4 credits each)
CIN 203 Chinese Cinema
CIN 204/POL 219 Politics, Cinema, and Media
CIN/COM 206 African Americans in Media
CIN/COM 208 Latina/o Media
CIN/AMS 230 American Myth and American Film
CIN 240 Third World Cinema
CIN/WGS 271 Women and Film
CIN/ENL 274 Introduction to Screenwriting
CIN 301 Screen Adaptations
CIN 303 Screen Comedy
CIN 306 Electronic Media Alternative
CIN 307 Nonfiction Film and Television
CIN 308 Film Genres
CIN 309 Electronic Media Alternative
CIN/COM 325 East Asian Popular Culture
CIN 326 Japanese Cinema
CIN 401 American Directors before 1960
CIN 402 American Directors after 1960
French Directors before 1960

French Directors after 1960

Postwar Italian Cinema

Global Cinema

Screen Writing

Senior Project

B. Six credits in Intermediate Production
chosen from the following: (3 credits each)

CIN 211 Cinematography
CIN 212 Documentary Video
CIN 311 Video Workshop
Non-Linear and Multimedia Production
Introduction to 16mm Filmmaking

CIN 314 Filmmaking
CIN 390 Media Internship

C. The remaining ten credits must be taken
from within the cinema studies course offerings
including at least seven credits at the 300 level
or higher.

D. Foreign Language
Requirement 0-4 credits
Demonstration of proficiency in a foreign
language through the intermediate level, 213 or
above.

Electives: 33 credits

Total Credits Required: 120

II. Production Concentration Pre-Major
Requirements: 6 credits

Students planning to major in the Production Option in
Cinema Studies must complete the following pre-major
requirements:

CIN 100 Introduction to Film 3 credits
CIN 111 Video I 3 credits

Production Concentration in the Cinema Major
Requirements: 45-49 credits

Students majoring in Cinema Studies with the Production
Option must complete the following courses:

CIN 120 Video II 3 credits
CIN 210 Film Theory 4 credits
CIN 220 Film History 4 credits
CIN 497/ Senior Project 4 credits
CIN 390 Introduction to 16mm Filmmaking

NOTE: The production option requires a senior thesis
project in the form of a short film or video. A senior
thesis project must be approved by a member of the
cinema faculty in the semester prior to undertaking the
production in a CIN 300 or higher-level production
course or independent study.

In addition to the above the following areas must be ful-
filled:

A. Twelve credits in Film History, Theory &
Aesthetics at the 200 level or higher
chosen from the following: (4 credits each)

CIN 203 Chinese Cinema
CIN 204/POL 219 Politics, Cinema, and Media

CIN/COM 206 African Americans in Media
CIN/COM 208 Latina/o Media
COM 220 History of Radio and Television
American Myth and American Film
CIN/AMS 230 Third World Cinema
CIN/WGS 271 Women and Film
CIN/ENL 274 Introduction to Screenwriting
CIN 301 Screen Adaptations
CIN 303 Screen Comedy
CIN 304 Nonfiction Film and Television
CIN 305 Film Genres
CIN 309 Electronic Media Alternative
CIN 318 East Asian Popular Culture
CIN 326 Japanese Cinema
CIN 401 American Directors before 1960
CIN 402 American Directors after 1960
CIN 404 French Directors before 1960
CIN 405 French Directors after 1960
CIN/LNG 406 Postwar Italian Cinema

B. Six credits in Intermediate Production
chosen from the following: (3 credits each)

CIN 211 Cinematography
CIN 212 Documentary Video
COM 240 Media Workshop: Acting,
Directing, and Producing for the Media
COM 261 Television Studio Production

C. Twelve credits in Advanced Production
chosen from the following: (3-4 credits each)

CIN 311 Video Workshop
Non-Linear and Multimedia Production
Introduction to 16mm Filmmaking

CIN 314 Filmmaking
CIN/COM 318 Advanced TV Studio Production
CIN 390 Media Internship
CIN 436 Screen Writing

D. Foreign Language Requirement credits
Demonstration of proficiency in a foreign
language through the intermediate level, 213 or
above.

Electives: 27 credits

Total Credits Required: 120

Liberal Arts and Sciences Requirement

Film production courses are non-liberal arts and sci-
ences.

Honors

To graduate with honors in Cinema Studies a student
must have a 3.5 grade point average in cinema studies
courses and must complete an honors thesis or project,
which may include the production of a film, approved by
a faculty advisor.
Cinema Courses

CIN 100  Introduction to Film  
4 hours; 3 credits  
An introduction to the terms and methods of film analysis. The course emphasizes critical viewing and writing, with attention to cinematography, editing, sound, narrative, authorship, genre, and ideology.  (arts & com.) (TALA)

CIN 111  Video I  
4 hours; 3 credits  
An introductory workshop in the basic techniques of video production. Visual awareness as applied to composition and continuity is developed in a series of practical class projects. This course is a prerequisite for 200- and 300-level work in film/video production and is intended for Cinema and Communications majors and minors.  (arts & com) (TALA) NOTE: This course has a material fee.

CIN 120  Video II  
4 hours; 3 credits  
An introductory course with an emphasis on digital video post-production software. Students’ original material will be the basis for progressive exercises in non-linear editing platforms. NOTE: This course has a material fee.  
Prerequisite: CIN 111 or permission of the Department of Media Culture

CIN 203  Chinese Cinema  
4 hours; 4 credits  
A study of Chinese cinema’s major movements and events, featuring major directors from Hong Kong, the People’s Republic of China, and Taiwan. (cont wld.) (TALA) NOTE: This course satisfies the College Option.  
Prerequisites: ENG 151 and COR 100

CIN 204  Politics, Cinema, Media  
(also POL 219)  
4 hours, 4 credits  
Analyzes political and social aspects of cinema and media within historical and contemporary contexts. Possible topics include race, class, gender, ethnicity, globalization, colonialism, imperialism, nationalism and its discontents, as they relate to cinema and the media.  (arts & com) (social science) (TALA) NOTE: This course satisfies the College Option.  
Prerequisites: ENG 111, COR 100

CIN 206  African Americans in the Media  
(Also COM 206)  
4 hours, 4 credits  
An examination of historical and theoretical issues concerning the representation of African Americans in the media. Covering a wide range of media that includes the categories of film, television, print, and the Internet, this course considers matters of production, reception, and representation across both mainstream and independent media texts. The course will highlight the diverse nature of black images from the perspectives of social and political significance, stylistic influences, and cultural context. Both contemporary and classic works will be screened.  
Prerequisites: ENG 151

CIN 208  Latina/o Media  
(Also AMS 208/COM 208)  
4 hours, 4 credits  
Examines the production, content, and reception of Latina/o-oriented media in the U.S. from a transnational perspective.  
Prerequisites: ENG 151 and (CIN 100 or COM 100 or COM 150 or any AMS course)

CIN 210  Film Theory  
4 hours; 4 credits  
Study of film theory and its relation to international cinema of the silent and sound periods. Readings include the major theoretical works of various critics, philosophers, and filmmakers. Required for the Cinema Studies major.  
Prerequisites: minimum grade of C in CIN 100 and ENG 111

CIN 211  Cinematography  
4 hours; 3 credits  
A basic workshop in cinematography. Visual exercises will focus on techniques of composition, lighting, and camera movement. NOTE: This course has a material fee.  
Prerequisite: CIN 120

CIN 212  Documentary Video  
4 hours; 3 credits  
Advanced training in the strategies, techniques, decision-making processes and structures of nonfiction videomaking. NOTE: This course has a material fee.  
Prerequisites: CIN 120

CIN 220  Film History  
4 hours; 4 credits  
Survey history of world cinemas. The course will consider research practices, historiography, film style, and industrial models of production; viewing and discussion of films by various American and international filmmakers. Required for the Cinema Studies major.  
Prerequisites: minimum grade of C in CIN 100 and ENG 111

CIN 230  American Film and American Myth  
(Also AMS 230)  
4 hours; 4 credits  
An interdisciplinary consideration of American filmmaking practices in relation to national mythmaking. Topics include: American film genre (the Western, film noir, the musical, and other dominant narrative models); gender, race, and class identities in film; cinematic aesthetics and nationalism; and cinematic treatments of international
cultural and political relations involving the United States. (arts & com.) (TALA) NOTE: This course satisfies the College Option. 
Prerequisites: ENG 111 and COR 100

CIN 240 Third World Cinema
4 hours; 4 credits
A survey of cinema from and about the Third World that emphasizes the effort to construct an identity within a post-colonial multinational context. Considered and analyzed will be films from Africa, Latin America, the Middle East, and Asia, as well as films of the diaspora made by emigrés. (p&d) (TALA) NOTE: This course satisfies the College Option. 
Prerequisite: CIN 100

CIN 271 Women and Film
(Also WGS 271)
4 hours; 4 credits
Explores the historical trajectory of the representation and self-representation of women in film, with particular attention to the significant developments in the status and achievements of women as stars, screenwriters, directors, consumers, and spectators. Screenings of key films, techniques of critical analysis of the moving image, weekly readings, discussions, and lectures, will all help to shape this consideration of film representations of what gender is, and what it has produced, over a period of more than 100 years. 
Prerequisite: ENG 151

CIN 274 Introduction to Screen Writing
(Also ENL 274)
4 hours; 4 credits
Writing for television and film. Class discussions of students’ work and the problems of creating in this field. Selected readings. 
Prerequisite: ENG 151

CIN 301 Screen Adaptations
4 hours; 4 credits
A study of the theory and practice of adapting literary fictions into narrative films and dramatic television programs. 
Prerequisites: ENG 151 and CIN 210 or CIN 220

CIN 303 Screen Comedy
4 hours; 4 credits
An examination of screen comedy. The course will consider comedy as a form of performance and as a mode of film practice, with attention to techniques that create laughter. Readings include critical and theoretical works on the nature of comedy and the role of the comic performer in generating meaning. 
Prerequisites: ENG 151 and CIN 210 or CIN 220

CIN 304 Nonfiction Film and Television
4 hours; 4 credits
A critical and historical examination of nonfiction film and television practices including documentary, newsreels, television news, and “reality TV.” This course analyzes the cultural, social, and ideological impact of film and television production as it has developed since cinema’s origins. 
Prerequisites: CIN 100 and ENG 151

CIN 305 Film Genres
4 hours; 4 credits
Study of film genre. The course examines the concept of genre in film and other media, while considering the formal characteristics, narrative patterns, characteristic themes, and conventions of one or more specific film genres. 
Prerequisite: CIN 210 or CIN 220

CIN 309 Electronic Media: Alternative Video Histories
4 hours; 4 credits
An exploration of the history and aesthetics of video from its inception with the development of the light-weight portapak in the mid-1970s. The relationship of video to television and cinema, its significance as an international art practice supported by the major cultural institutions, and its use by individual artists and by media collectives are major themes in the course. Screenings of key videos, the critical vocabulary specific to the medium, weekly readings, discussions, and lectures, will frame this consideration of how video has managed to permeate our culture in little more than two generations. 
Prerequisites: CIN 210 or CIN 220; ENG 151

CIN 311 Video Workshop
4 hours; 3 credits
Students will use advanced video equipment in the production of independent projects. Emphasis is placed on the ability of students to work in production crews. This course may be repeated for credit. NOTE: This course has a material fee. 
Prerequisite: CIN 211

CIN 312 Non-Linear and Multimedia Production
4 hours; 3 credits
Individual projects in video and multimedia with an emphasis on digital post-production. This course may be repeated for credit. NOTE: This course has a material fee. 
Prerequisites: CIN 120, and either CIN 211 or COM 261

CIN 314 Introduction to 16mm Filmmaking
4 hours; 3 credits
This course will introduce students to the basics of 16mm reversal film production. Using Bolex cameras and 16mm bench editing, students will explore non-sync editing and the essentials of motion picture photography while executing individual and group projects in a hands-on workshop. NOTE: This course has a material fee. 
Prerequisite: CIN 211

CIN 318 Advanced TV Studio Production
(Also COM 318)
4 hours; 4 credits
An advanced workshop in the techniques and concepts of live studio production. This course emphasizes a disciplined approach to practical application, the ability to work in production crews, and critical thinking as it relates to audience, message, and aesthetic choices. Students develop works through individual and group productions acquainting them with industry standards.
CIN 325  East Asian Popular Culture
(Also COM 325)
4 hours; 4 credits
This course examines different forms of popular culture in East Asia from historical, sociological, anthropological and media studies perspectives. Looking at TV drama, cinema, animation, music, fashion and fast food, the course investigates how popular culture works and how it shapes people's lives. In particular, how are cultural forms communicated and circulated in different places, in regional as well as global contexts and how do local dynamics re-shape the forms? Seeing popular culture as terrains of power struggles and articulation, we will explore how class, gender and national identities are constructed and contested through popular culture that is in turn shaped by these social relationships in specific political and historical contexts.
Prerequisites: ENG 151 and (HST 204 or COM 203 or CIN 210 or CIN 220)

CIN 326  Japanese Cinema: Theory & History
(Also COM 326)
4 hours; 4 credits
This course surveys Japanese cinema from its prehistory to the present, interrogating the relationship between cinema and Japanese society through familiar concepts such as auteur, genre, national characteristics and ethnicity, gender and racial hierarchy, culture, Tradition vs. Modernity, the East and the West. We will focus on both historical specificities of “Japan” and formal aspects of filmic texts. Defining cinema as a social practice, our discussion will cover ideological negotiations involved in film exhibition and identity formation.
Prerequisites: ENG 151 and (HST 204 or COM 203 or CIN 210 or CIN 220)

CIN 390  Media Internship
(Also COM 390)
3-4 credits
An internship work and learning experience with a media organization or in positions engaging in communications practices. This may include work in the production, distribution, or exhibition of media material, as well as in public relations and advertising. Students are required to keep a work journal and write an analytical paper of their work experience. This course may be repeated for credit.
Prerequisites: COM 200 or COM 203 or COM 205 or COM 220 or COM 230 or COM 232 or CIN 210 or CIN 220, and the permission of a faculty advisor.

CIN 401  American Directors Before 1960
4 hours; 4 credits
Study of film authorship in relation to one or more directors who worked in the United States film industry before 1960. (arts & com.) (TALA) NOTE: This course satisfies the College Option.
Prerequisites: ENG 151 and CIN 210 or CIN 220

CIN 402  American Directors After 1960
4 hours; 4 credits
Study of film authorship in relation to one or more directors who produced films in the United States after 1960.
Communications

(Bachelor of Science, Minor)
Department of Media Culture, Center for the Arts (1P), Room 226
Chairperson and Professor David Gerstner

The program is designed to provide undergraduate students with a comprehensive and multidisciplinary liberal arts education, while introducing them to the field of communications and equipping them with specialized skills. The program offers the following areas of specialization: Media Studies, Corporate Communications, Design and Digital Media, and Journalism. Students will study the history and theory of industries and forms, and engage in the production of diverse media, such as print, advertising, radio, film, public relations, television, the Internet, and other emerging media. This program is offered by the Department of Media Culture in collaboration with the Department of English and in association with the School of Business and the Department of Sociology and Anthropology.

Communications (BS)

Major Requirements: 51-58
Common Core: required for all concentrations: 27-32 credits
1. History and Theory of Communications 15 credits
   CIN 100 Introduction to Film 3 credits
   COM 150 Introduction to Communications 4 credits
   COM 203 Theories of Communications 4 credits
   And one of the following:
   CIN 220 Film History 4 credits
   COM 200 Media and Culture 4 credits
   COM 205 Media Industries 4 credits
   COM 220 History of Television and Radio 4 credits
   COM 230 History of Print Media 4 credits
   COM 232 History of Design and Digital Media 4 credits
2. Practical and Applied 12-13 credits
   COM 115 Introduction to Design and Digital Media Environments 1 credit
   COM 315 Media Analysis 4 credits
   COM 390 Media Internship 3-4 credits
   COM 450 Communications Senior Seminar 4 credits
3. Foreign Language Requirement 0-4 credits
Demonstration of proficiency in a language through the intermediate level, 213 or above.
4. Areas of Specialization 22-26 credits
   Communications majors must elect one of the following specializations: Media Studies, Corporate Communications, Design and Digital Media, or Journalism.

Specializations:
I. Media Studies

The specialization in Media Studies prepares students for careers in media production and media research. Students are introduced to the histories and theories of media, as well as the institutional and cultural contexts in which mediated communication occurs. They will gain production skills in video, radio, television, or digital media.

Requirements: 24-26 credits
   CIN 111 Video I 3 credits
   Two of the following: 8 credits
   ANT 225/ Multicultural Literacy 4 credits
   COM 225
   CIN 204/ Politics, Film, Media 4 credits
   POL 219
   CIN 206/ African Americans in Media 4 credits
   COM 206
   CIN 208/COM 208/AMS 208
   CIN 240 Third World Cinema 4 credits
   CIN 271/ Women and Film 4 credits
   WGS 271
   CIN 309 Electronic Media: Alternative Video Histories 4 credits
   COM 325/ East Asian Popular Culture 4 credits
   CIN 325/ Media and the Margins 4 credits
   COM 371/ SOC 371
   One of the Following: 3-4 credits
   CIN 120 Video II 3 credits
   COM 240 Media Workshop: Acting, Direction and Production for the Media 4 credits
   COM 250 Typography & Design 4 credits
   COM 251 Digital Imaging I 3 credits
   COM 261 TV Studio Production 3 credits
   COM 270 Radio Production 3 credits
   Two of the Following: 6-8 credits
   CIN 211 Cinematography 3 credits
   CIN 212 Documentary Video 3 credits
   COM 317 Information Design 4 credits
   CIN 318/ Advanced TV Studio Production 4 credits
   COM 318
   COM 320 Motion Graphics 4 credits
   COM 370 Web Design, Graphics and Theory 4 credits
   One of the Following: 4 credits
   COM 415 Media Audiences 4 credits
   COM 420 Global Media 4 credits
   COM 425 Media Regulation 4 credits
Note: Courses may only be used once to fulfill a requirement area.
II. Corporate Communications

The Corporate Communications area of specialization is designed for students to study communications and their practices for entry into media businesses, and corporate and non-profit settings. The curriculum provides knowledge of media organizations and their operations, theoretical frameworks of strategic communications and media, and their practical application in writing, digital media, public relations, advertising, and other communications practices.

Requirements: 22-23 credits
   COM 205 Media Industries 4 credits
   COM 332 History and Theory of Advertising and Public Relations 4 credits
   COM 432 Corporate Communications Practices 3 credits
   One of the following: 3 credits
   BUS 100 Introduction to Business
   MGT 110 Organizational Theory and Management
   MKT 111 Marketing
   One of the following: 3-4 credits
   MKT 211 Advertising
   COM 251 Digital Imaging I
ENL 277  Introduction to Journalism  4 credits
MKT 310  Consumer Behavior
One of the following:  4 credits
COM 341  Communications Design Workshop
COM 370  Web Design: Graphics and Theory
COM 415  Media Audiences
COM 420  Global Media
COM 425  Media Regulations
COM/  
ENL 465  Writing for the Media  4 credits
COM/  
ENL 475  Writing for Advertising and Public Relations
Note: Courses may only be used once to fulfill a requirement area.

III. Design and Digital Media

The Design and Digital Media area of specialization is designed for students to study graphic design, digital imaging, and Web design for entry into positions in print and Web design, and publishing organizations. The curriculum emphasizes visual literacy and design history, theory, and technique. The practicum provides students with the opportunity to develop skills and competence using professional design software in one or more areas of practical and aesthetic application: graphic design, digital imaging, and the Web.

Requirements: 25-26 credits
COM 250  Typography and Design  3 credits
COM 251  Digital Imaging I  3 credits
COM 370  Web Design: Graphics and Theory  4 credits
Two of the following:  7-8 credits
COM 313  Principles of Editorial Design
COM 317  Information Design
COM 341  Communications Design Workshop
COM 351  Digital Imaging II
One of the following:  4 credits
COM 320  Motion Graphics
COM 380  Web Design, Animation, and Theory
COM 451  Advanced Design and Digital Media Workshop
COM 492  Senior Project for Design and Digital Media
One of the following courses  3-4 credits
CIN 111  Video I
PHO 120  Basic Photography
ART 120  Introductory Drawing
ART 130  Introductory Painting
ART 245  Printmaking
COM 313  Principles of Editorial Design
COM 320  Motion Graphics
COM 332  History and Theory of Advertising and Public Relations
COM 341  Communications Design Workshop
COM 351  Digital Imaging II
COM 380  Web Design, Animation, and Theory
COM 475  Writing for Advertising and Public Relations
Note: Courses may only be used once to fulfill a requirement area.

IV. Journalism

The specialization in Journalism prepares students for entry-level positions in print, broadcast, online, and converged journalism. In an era where media is “everywhere,” the specialization also prepares students to critically produce, understand, and interrogate reporting and production practices, even if they are not full-time journalists. The curriculum also provides students with a broad background in communication and in English language, linguistics, and literature, and with the development of writing and reportorial skills suited to contemporary journalism. This area of concentration is offered in collaboration with the Department of English.

Requirements: 24 credits
COM/ENL 277  Introduction to Journalism  4 credits
COM 204  Introduction to Online Journalism  4 credits
One of the following (4 credits)
ENL 480  Studies in Advanced Journalism  4 credits
ENL/COM 445  Journalism and Society  4 credits

Two of the following (8 credits)
COM 412/  Broadcast Journalism  4 credits
ENL 412  
COM 438/  Newspaper Reporting  4 credits
ENL 438  
COM 446  Digital Design Journalists  4 credits
One of the following (4 credits)
ENL 433  Nonfiction Writing  4 credits
ENL 440  Magazine Writing  4 credits
ENL 441  Writing about the Media  4 credits
COM/  Writing for the Media  4 credits
ENL 465  
COM/  Writing for Advertising  4 credits
ENL 475  
CIN 212  Documentary Video  4 credits

Electives: 20-30 credits

Total Credits Required: 120

It is strongly recommended that students majoring in Communications also elect a minor. The choice of a minor should be developed in accordance with the student’s career objectives in consultation with the student’s faculty advisor.

Honors

To graduate with honors in Communications, a student must have a 3.5 grade point average in communications courses and must complete an honors thesis or project approved by a faculty advisor.

Communications Minors

Minors

Minor in Media Studies  17 credits
COM 150  Introduction to Communications  4 credits
CIN 111  Video I  3 credits
One of the following:  4 credits
COM 200  Media and Culture
COM 220  History of Radio and Television
COM/ANT  Multicultural Literacy  225
COM/SOC  Media and the Margins  371
Two of the following:  6 credits
COM 240  Media Workshop
COM 261  TV Studio Production
COM 270  Radio and Audio Production
CIN 120  Video II  4 credits

Minor in Corporate Communications  16-17 credits
COM 115  Introduction to Design and Digital Media Environments  1 credit
COM 150  Introduction to Communications  4 credits
COM 205  Media Industries  4 credits
COM 332  History and Theory of Advertis-
### Minor in Design and Digital Media
- COM 115 Introduction to Design and Digital Media Environments: 1 credit
- COM 150 Introduction to Communications: 4 credits
- COM 250 Typography and Design: 3 credits
- COM 251 Digital Imaging I: 3 credits
- Two of the following: 7-8 credits
  - COM 313 Principles of Editorial Design
  - COM 317 Information Design
  - COM 320 Motion Graphics
  - COM 341 Communications Design Workshop
  - COM 351 Digital Imaging II
  - COM 370 Web Design: Graphics and Theory
  - COM 380 Animation Design

### Minor in Journalism
- COM/ENL 277 Introduction to Journalism: 10-12 credits
- Two of the following: 7-8 credits
  - COM/ENL 250 Broadcast Journalism
  - COM/ENL 313 Introduction to Journalism
  - COM/ENL 320 Broadcast Journalism
  - COM/ENL 330 Broadcast Journalism
- COM/ENL 480 Studies in Advanced Journalism: 3 credits
- One of the following: 3-4 credits
  - ENL 433 Nonfiction Writing
  - ENL 440 Magazine Writing
  - ENL 441 Writing about the Media
  - COM/ENL 445 Journalism and Society
  - COM/ENL 465 Writing for the Media
  - COM/ENL 475 Writing for Advertising and Public Relations

### Communication Courses
#### COM 100 Introduction to Media
- 3 hours; 3 credits

An introduction to media, providing an overview of the media industries, as well as the political, social, and cultural uses of modern media. (arts & com.) (FCER) (TALA)

Prerequisite: Passing the CUNY Assessment Test in Reading and Writing

#### COM 115 Introduction to Design and Digital Media Environments
- 1 hour; 1 credit

Introduces students to the fundamental tools, skills, and principles that are a prerequisite to using a computer for graphic design, digital imaging, and Web design. Students will be instructed in the computer's operating system, and introduced to the basic software programs and peripheral devices. This course is the prerequisite for all COM production courses.

#### COM 150 Introduction to Communications
- 4 hours; 4 credits

An introduction to the study of communications modes, codes, and institutions. The course also examines the histories, contexts, content, and reception of different media.

Prerequisite: ENG 151

#### COM 200 Media and Culture
- 4 hours; 4 credits

An examination of interrelationships among media, cultural production, and their social, historical, political, and economic contexts. This course considers the interdisciplinary approaches of visual culture and cultural studies to understand the roles of institutions, groups, and individuals in creating and using cultural representations and engaging in cultural practices, with an emphasis on the integration of mediated cultural production into everyday life. (arts & com.) (TALA) NOTE: This course satisfies the College Option.

Prerequisite: COM 150

#### COM 201 History and Theory of Television
- 4 hours; 4 credits

History and Theory of Television examines the development of commercial television broadcasting, its genesis in radio, its creation of distinctive genres, and its change and diversification in the age of cable and satellite broadcasting. The course considers different theoretical approaches to the analysis of television, investigating theories of the effects of television, the impact of television on other media, and television’s “mythic” content. (arts & com.) (TALA) NOTE: This course satisfies the College Option.

Prerequisite: ENG 111

#### COM 202 Theories of Communications
- 4 hours; 4 credits

An examination of the development of communications as an interdisciplinary academic field, drawing on rhetoric, social psychology, political science, sociology, anthropology, and other disciplines. Emphasis will be placed on theories of mass communication and media. Students learn to make connections and distinguish between various theories and models.

Prerequisite: minimum grade of C in COM 150

#### COM 204 Introduction to Online Journalism
- 4 hours; 4 credits

Introduces students to the range of basic skills—blogging, online reporting, podcasting, online video and audio—necessary to operate successfully in the world of online journalism. The course will also familiarize stu-
students with some of the major intellectual issues that lie at the heart of the emergence of online journalism.

Prerequisites: ENG 151, COM 115

COM 205 Media Industries
4 hours; 4 credits
An examination of U.S. media organizations and their practices. This course explores the historical, regulatory, and economic context of their operations, highlighting contemporary issues of media convergence, conglomerations, ownership, regulation, policy, and the political economy of the media.

Prerequisite: COM 150

COM 206 African Americans in the Media
(Also CIN 206)
4 hours, 4 credits
An examination of historical and theoretical issues concerning the representation of African Americans in the media. Covering a wide range of media that includes the categories of film, television, print, and the Internet, this course considers matters of production, reception, and representation across both mainstream and independent media texts. The course will highlight the diverse nature of black images from the perspectives of social and political significance, stylistic influences, and cultural context. Both contemporary and classic works will be screened.

Prerequisites: ENG 151

COM 208 Latina/o Media
(Also CIN 208/AMS 208)
4 hours, 4 credits
Examines the production, content, and reception of Latina/o-oriented media in the U.S. from a transnational perspective.

Prerequisites: ENG 151 and (CIN 100 or COM 100 or COM 150 or any AMS course)

COM 211 Communications in a Corporate Setting
(Also BUS 211)
4 hours; 3 credits
An introduction to types of communication in business settings. These will include oral communication (with presentations) and written communication both within the organization as well as to external recipients (such as investors, government agencies, and the community). Data communication, both for internal needs and for external needs, will be covered. Security for all types of communication will be discussed. This course will help students to master effective professional communication through skills development and applications in diverse organizational contexts.

Prerequisites: ENG 151 and BUS 150 or BUS 215 or BUS 250 or CSC 102

COM 220 History of Radio and Television
4 hours; 4 credits
This course examines the development of radio and television broadcasting systems in the United States, from their origins in “wireless telegraphy” to the current age of multichannel cable and satellite transmission. The course considers different theoretical approaches to the analysis of radio and television; their distinct genres;
graphic and typographic design projects. NOTE: This course has a material fee.
Prerequisite: minimum grade of C in  COM 115

**COM 251  Digital Imaging 1**
4 hours; 3 credits
A study of strategies in digital imaging production and treatment. Students will learn and employ digital design applications to composite images for print. Design exercises and projects emphasize problem solving, creativity, and presentation. Lectures focus on production and theory, referencing both historical and contemporary work as examples. NOTE: This course has a material fee.
Prerequisite: minimum grade of C in  COM 115

**COM 261  Television Studio Production**
4 hours; 3 credits
The emphasis is on studio production and the application of controlled studio techniques to the production of video programs. Increasingly complex projects will be planned, scripted, and carried through to a final edit. NOTE: This course has a material fee.
Prerequisites:  ENG 111 and CIN 111

**COM 270  Radio Production**
4 hours; 3 credits
This course is designed to give the student an understanding of radio production, theory, and practice. This includes audio principles and aesthetics; the purpose and operation of primary (microphones, tape machines, consoles, turntables) and secondary (compressors, equalizers, delays) studio equipment; and the techniques of the production process.

**COM 271  Radio/TV Newscasting**
4 hours; 3 credits
This course provides students with an understanding of newscasting through an evaluation of the impact of broadcast news, and investigation of journalistic tenets and applications that include organizing, writing, and producing news programs.
Prerequisite:  COM 261 or COM 270

**COM 277  Introduction to Journalism**
(Also ENL 277)
4 hours; 4 credits
A general introduction to the principles of journalism. Work on reporting, editing, and layout, and an examination of distribution/feedback systems.
Prerequisite:  ENG 151

**COM 312  Theories of Mass Media**
(Also ENL 312)
4 hours; 4 credits
A survey of contemporary communications theory defining the language, structure, systems, effects, and rhetoric of the mass media. Practical examples in journalism, advertising, publishing, radio, television, and film will be analyzed.
Prerequisite:  ENG 151
Pre- or corequisite:  An ENH 200-level course or ENL 290

**COM 313  Principles of Editorial Design: Integration of Writing and Graphics**
4 hours; 4 credits
Emphasis on the integration of publication design, graphics, information organization, and language. Course topics focus on various formats of multi-page layout design for print, their meaning and significance; editorial concepts, and the publication process. Further emphasis is placed on group organization, collaboration, and co-authorship. NOTE: This course has a material fee.
Prerequisites:  ENG 151 and COM 250 or COM 317,

**COM 315  Media Analysis**
4 hours; 4 credits
An intensive theory and writing course introducing students to diverse approaches to media analysis, from semiotics, psychoanalysis, intertextuality, and discourse analysis. Students explore ways to read and understand different kinds of media texts, including print, audio, visual, and digital texts. Students will also learn to explore and explain their ideas and arguments in writing about media texts.
Prerequisite:  COM 203

**COM 317  Information Design**
4 hours; 4 credits
An exploration of the relationship between form and information. This course examines systems for organizing and presenting effective, efficient, and understandable information. Students will learn and employ vector-based computer illustration software to complete their assignments.
Prerequisite:  COM 250

**COM 318  Advanced TV Studio Production**
(Also CIN 318)
4 hours; 4 credits
An advanced workshop in the techniques and concepts of live studio production. This course emphasizes a disciplined approach to practical application, the ability to work in production crews, and critical thinking as it relates to audience, message, and aesthetic choices. Students develop works through individual and group productions acquainting them with industry standards.
Prerequisite:  COM 261

**COM 320  Motion Graphics**
4 hours; 4 credits
A course focusing on the language and tools of motion graphics. Emphasis is on the construction of image, typography, and accelerated sequences, as well as historical and theoretical topics. Students will learn to integrate sound and image as they develop and storyboard their projects.
Prerequisite:  COM 251 or CIN 120

**COM 325  East Asian Popular Culture**
(Also CIN 325)
4 hours, 4 credits
This course examines different forms of popular culture in East Asia from historical, sociological, anthropological and media studies perspectives. Looking at TV drama, cinema, animation, music, fashion and fast food, the
course investigates how popular culture works and how it shapes people’s lives. In particular, how are cultural forms communicated and circulated in different places, in regional as well as global contexts and how do local dynamics re-shape the forms? Seeing popular culture as terrains of power struggles and articulation, we will explore how class, gender and national identities are constructed and contested through popular culture that is in turn shaped by these social relationships in specific political and historical contexts.

Prerequisites: ENG 151 and (HST 204 or COM 203 or CIN 210 or CIN 220)

COM 326 Japanese Cinema: Theory & History
(Also CIN 326)
4 hours, 4 credits
This course surveys Japanese cinema from its prehistory to the present, interrogating the relationship between cinema and Japanese society through familiar concepts such as auteur, genre, national characteristics and ethnicity, gender and racial hierarchy, culture, Tradition vs. Modernity, the East and the West. We will focus on both historical specificities of “Japan” and formal aspects of filmic texts. Defining cinema as a social practice, our discussion will cover ideological negotiations involved in film exhibition and identity formation.

Prerequisites: ENG 151 and (HST 204 or COM 203 or CIN 210 or CIN 220)

COM 332 History and Theory of Advertising and Public Relations
4 hours; 4 credits
The history of advertising and public relations in the United States. This course explores theories regarding their implications in relation to media institutions, politics, public opinion, society, and culture.
Prerequisite: COM 205

COM 341 Communications Design Workshop
4 hours; 4 credits
An examination of theoretical and practical approaches to visual culture. This course focuses on the role of subject, voice, and audience in determining appropriate visual and verbal forms. Through the use of various digital techniques, students will produce graphic and conceptual design projects where layers of meaning are created through the combination of images and text. NOTE: This course has a material fee.
Prerequisite: COM 251

COM 351 Digital Imaging II
4 hours; 4 credits
An advanced creative, practical, and theoretical study of digital imaging as it is used in visual communication. Students will enhance their understanding of design and visual practice through thematic digital imaging assignments. Technical topics include advanced features of hardware and software and digital camera use. Theoretical concerns focus on the evolution of digital imagery, digital photography, and representation. NOTE: This course has a material fee.
Prerequisites: COM 250 and COM 251

COM 370 Web Design, Graphics, and Theory
4 hours; 4 credits
An exploration of Web design, new media, digital culture, and cyberspace. This course is concerned with the technical skills of Web design and development, and the theoretical implications of Web-based design. Students will create projects employing Web design software. Along with production, COM 370 focuses on the psychological, cultural, social, economic, and political relationships associated with Internet culture. NOTE: This course has a material fee.
Prerequisites: COM 203 and COM 251

COM 371 Media and the Margins
(also SOC 371)
4 hours; 4 credits
An examination of the role of the mass media as cultural institutions that shape the images and self-images of marginalized groups. The course engages with definitions based on, but not limited to, age, disability, ethnicity, gender, race, and sexuality. (p&d) (TALA) NOTE: This course satisfies the College Option.
Prerequisites: COM 150 or a 100-level and 200-level SOC or ANT course

COM 374 Mass Media in Modern Society
(Also SOC 374)
4 hours; 4 credits
Sociological analysis of the mass media: their comparative histories and organizations, and their political and social effects. Attention will be given to their persuasive role in propaganda and public opinion, as well as to their function in providing information and entertainment for the common culture.
Prerequisites: COM 150 and a 200-level SOC or ANT course

COM 380 Web Design, Animation, and Theory
4 hours; 4 credits
A course focusing on digital animation for the Internet. This course will cover the technical aspects of digital animation, as well as historical and theoretical topics. Students will create animations as stand-alone pieces and as components in Web pages. NOTE: This course has a material fee.
Prerequisite: COM 370

COM 390 Media Internship
(also CIN 390)
3-4 credits
An internship work and learning experience with a media organization or in positions engaging in communications practices. This may include work in the production, distribution, or exhibition of media material, as well as in public relations and advertising. Students are required to keep a work journal, and write an analytical paper of their work experience. This course may be repeated for credit.
Prerequisites: COM 200 or COM 203 or COM 205 or COM 220 or COM 230 or CIN 210 or CIN 220, and the permission of the faculty advisor.

COM 410 Media Administration
(also BUS 410)
4 hours; 4 credits
A course dealing with the skills and concepts necessary for the competent management of a media production department. Topics include production planning and control, cost analysis procedures, contract and copyright law in relation to the media, and organization theory.

**COM 412 Broadcast Journalism**  
(Also ENL 412)  
4 hours; 4 credits  
An introduction to the theory, history, and practice of modern newscasting. The class will also focus on the way that traditional broadcast is converging with digital video production and distribution in the creation of news. Special emphasis will be placed on preparing material for broadcast on radio, television, and online. Readings will explore the economic realities of broadcasting, legal sanctions, and social impact. Students will monitor newscasts, analyze them, and write copy suitable for broadcast. For students wishing to register for the course, COM 100 is recommended.  
Prerequisite: COM/ENL 277 and COM 204

**COM 415 Media Audiences**  
4 hours; 4 credits  
A comparison of industry and scholarly approaches to understanding media audiences and media effects, focusing on the medium of television. This course also draws cases from film, radio, and new media. We will examine the tools of media industry audience research (such as audience measurement, ratings systems, and focus groups), as well as critical scholarship on the social impact of the fragmentation of the mass audience, and the results of ethnographic audience research.  
Prerequisite: COM 315

**COM 420 Global Media**  
4 hours; 4 credits  
An examination of contemporary media as global phenomena, stressing the multidirectionality of media flows, influences, power, and practices. Students explore global connections in different media, including print, electronic, audio, visual, television, film, as well as the interconnectedness of these media on a global scale.  
Prerequisite: COM 315

**COM 425 Media Regulation**  
4 hours; 4 credits  
A survey of the regulation of media, including print, film, and telecommunications in the United States. The course examines the history of media regulation in terms of both the structure of media industries and their contents, including the First Amendment rights extended to individual expression and print, censorship and the limitations placed on broadcasting; the governance of intellectual property, in copyright and fair use laws; the role of the Federal Communications Commission, trends in de- and re-regulation in recent decades, and the role of regulations in developing new media such as the Internet.  
Prerequisite: COM 315

**COM 432 Corporate Communications Practices**  
4 hours; 4 credits  
An extensive examination of corporate communications and public relations approaches, and their application. Case studies and examples of a variety of corporate communications practices will be analyzed in terms of their meaning, purposes, and targeted publics to study and develop skills in building communications strategies, tactics, and execution techniques. Students will work on projects dealing with the planning and execution of strategic communications.  
Prerequisite: COM 332

**COM 438 Newspaper Reporting**  
(Also ENL 438)  
4 hours; 4 credits  
An introduction to the theory, history, and practice of modern reportorial journalism. The class will focus on the way that traditional newswriting is converging with other media forms online, yet remains a skill of its own with specific needs, ethics, and best practices. For students wishing to register for the course COM 100 is recommended.  
Prerequisite: COM/ENL 277 and COM 204

**COM 445 Journalism and Society**  
(Also ENL 445)  
4 hours; 4 credits  
Learning to “read” and write the news. Analysis of the ways in which news stories define our understanding of society. The course will consider both the effect of print and broadcast journalism on politics, values, and social standards and the pressures on the press that define its values. Topics vary from term to term.  
Prerequisite: (COM/ENL 277 and COM 204) and (COM 412/ENL 412 or ENL 438/COM 438 or COM 446)

**COM 446 Digital Design for Journalists**  
4 hours; 4 credits  
Digital design skills needed for developing skills in writing for traditional electronic media (such as radio and television) as well as new media (such as the Internet). This writing-intensive course emphasizes the translation of ideas into written text or spoken dialogue appropriate to the medium, genre, and target audience, as well as treatments, proposals, and other forms of pre-production writing.  
Prerequisites: COM/ENL 277 and COM 204 or COM 317

**COM 450 Senior Seminar in Communications Research**  
4 hours; 4 credits  
The capstone class for Communications majors. The course provides an overview of communications research and introduces students to basic research procedures, paradigms, and methods. Students learn research goals, methodologies, and strategies in communications. They use these tools to formulate a research problem of their own and to conduct research in libraries, through media resources, and through fieldwork.  
Prerequisite: COM 315
COM 451  Advanced Design and Digital Media Workshop
4 hours; 4 credits
Workshop course designed for advanced students to complete extended projects. The students will apply their mastery of the concepts and skills of design and digital media to one large project or body of work; this work will be proposed by the student and agreed upon by the professor. NOTE: This course has a material fee.
Prerequisites: COM 250 and COM 370
Pre- or corequisite: COM 314 or COM 341 or COM 317 or COM 320 or COM 351 or COM 380

COM 465  Writing for the Media
(also ENL 465)
4 hours; 4 credits
Developing skills in writing for traditional electronic media (such as radio and television) as well as new media (such as the Internet). This writing-intensive course emphasizes the translation of ideas into written text or spoken dialogue appropriate to the medium, genre, and target audience, as well as treatments, proposals, and other forms of pre-production writing.
Prerequisites: 200-level COM course and ENG 151

COM 475  Writing for Advertising and Public Relations
(also ENL 475)
4 hours; 4 credits
An introduction to the techniques of developing concepts and writing copy for advertising in print and broadcast media, and public relations material such as press releases, newsletters, brochures, and publicity material. The course analyzes advertising, public relations, and other corporate communications tactics in terms of their target audience, message, and effectiveness, as well as the channels of communication. Students will be assigned a number of writing projects including copywriting, concept development proposals, press releases, and newsletter articles.
Prerequisite: COM 332

COM 480  Studies in Advanced Journalism
(Also ENL 480)
4 hours; 4 credits
Analysis of the techniques required for good feature writing, magazine writing, personal journalism, investigative reporting, interviewing, etc. Overview of the changing journalism environment and the techniques and skills necessary to build a successful journalism organization. Overview of the job and skills of a news editor. Emphasis amongst these different options varies from term to term.
Prerequisite: COM/ENL 277 and COM 204; COM/ENL 412 or COM/ENL 438 or COM 466

COM 490  Senior Project
2 hours; 1 credit
A laboratory/seminar in which students select a publication project to complete during the semester, including a written analysis of the writing, design, and management problems and skills related to the completion of the project. Problems, possible solutions, and final results will be shared in seminar style.
Prerequisites: Senior standing and permission of the instructor

COM 492  Senior Project for Design and Digital Media
4 hours; 4 credits
Advanced individual exploration of techniques and principles introduced in 200- and 300-level design and digital media courses. This course provides the opportunity for students to develop cohesive portfolios to a quality required for entry-level positions in the field. Critiques of student work will be held with fellow students and the faculty advisor periodically throughout the semester.
Prerequisites: Senior standing and COM 250 and COM 370
Pre- or corequisite: COM 314 or COM 341 or COM 317 or COM 320 or COM 317 or COM 380

Computer Science and Computer Technology

(Bachelor of Science, Associate in Applied Science, Minor; Master of Science - see Graduate Catalog)
Department of Computer Science, Building 1N, Room 215
Chairperson and Associate Professor Susan Imberman

Computer User Responsibilities
Students are expected to be familiar with the computer user responsibilities detailed in Appendix ii.

Computer Technology (AAS)
The College offers a Computer Technology program that focuses on general applications programming. Students seeking a Bachelor's degree in Computer Science should consult the requirements for the BS in Computer Science or the BS in Computer Science/Mathematics.

Pathways Common Core Requirements: 24-26
Pathways Required Core: 12-13 credits

English Composition (RECR) 6 credits
ENG 111 Introduction to College Writing 3 credits
ENG 151 College Writing 3 credits

Mathematical and Quantitative Reasoning (RMQR)
Mathematical and Quantitative Reasoning 3 or more credits
MTH 231 Analytic Geometry and Calculus I* 3 credits
or MTH 221 Applied Finite Mathematics 4 credits

Life and Physical Sciences 3 or more credits
AST 120 Space Science I 4 credits
BIO 170 General Biology I 3 credits
CHM 141 General Chemistry I 3 credits
GEO 100 Planet Earth 3 credits
PHY 120 General Physics I 3 credits

Pathways Flexible Core: 12-13 credits
Students may take no more than two courses from any discipline or interdisciplinary field in the Flexible Core.

U.S. Experience in its Diversity (FUSR) 3 credits

Students are required to complete the following course:
COR 100 United States: Issues, Ideas, and Institutions

Scientific World (FSWR) 3 or more credits

Students are required to complete one of the following courses:
AST 160 Space Science II 4 credits
BIO 180 General Biology II 3 credits
CHM 142 General Chemistry II 3 credits
GEO 102 Historical Geology 3 credits
PHY 160 General Physics II 3 credits

NOTE: These courses are part of a sequence and require specific prerequisites and/or corequisites. Please click on the course for prerequisite and/or corequisite information.

In addition to the above, students must select 2 courses from the following areas of the Flexible Core:
1. World Cultures and Global Issues (FWGR)
2. Creative Expression (FCER)
3. Individual and Society (FISR)

*Also fulfills major requirement.

NOTE: Students may take courses in STEM areas of the Common Core that have 3 or more credits. This may result in students finishing their degree with more than the regular number of credits required.

Pre-Core Requirement:
CSC 126 Introduction to Computer Science 4 credits

A grade of C or above in CSC 126 is required for continuation in the program. Students will be allowed to repeat the course, if necessary.

**Core Requirements: 28-30 credits**

<table>
<thead>
<tr>
<th>Course</th>
<th>Prerequisite</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH 221</td>
<td>Discrete Mathematical Structures</td>
<td>4 credits</td>
</tr>
<tr>
<td>MTH 231</td>
<td>Calculus Computer Laboratory</td>
<td>1 credit</td>
</tr>
<tr>
<td>MTH 229</td>
<td>Analytic Geometry and Calculus I</td>
<td>3 credits</td>
</tr>
</tbody>
</table>

**Electives: 0-4 credits**

Total Credits Required: 60

**Computer Science (BS)**

The Computer Science program offers a full four-year curriculum in computer science that prepares students for careers as computer professionals and/or for graduate study. The major provides a broad-based background in computer science and includes courses in computer software, systems, mathematics, and computer engineering. A student, under the guidance of a computer science advisor, may also select additional courses to pursue particular interests. Students interested in transferring into the program from the two-year Computer Technology program should consult the department chairperson.

**Program Educational Objectives:**

A few years after graduation, graduates will:

1. Hold responsible positions in computing related fields and/or be pursuing an advanced computing-related degree;
2. Remain current in their field through the pursuit of life-long learning; and
3. Use their core computing and problem-solving knowledge.

The program in Computer Science is accredited by the Computer Accreditation Commission (CAC) of ABET,
Index 145

111 Market Place, Suite 1050, Baltimore, Maryland 21202-4012; 410.347.7700.

Pathways Common Core Requirements: 27-33 credits

Pathways Required Core: 12-13 credits

English Composition (RECR) 6 credits
ENG 111 Introduction to College Writing 3 credits
ENG 151 College Writing 3 credits
Mathematical and Quantitative Reasoning (RMQR)

Students are required to complete the following courses:
MTH 231 Analytic Geometry and Calculus I* 3 credits

NOTE: Students may be required to take a prerequisite for MTH 231

Life and Physical Sciences 3 or more credits (RLPR)
Students are required to complete one of the following courses:
AST 120* Space Science I 4 credits
BIO 170* General Biology I 3 credits
CHM 141* General Chemistry I 3 credits
GEO 100* Planet Earth 3 credits
PHY 120* General Physics I 3 credits

NOTE: Students will be required to register for the sequence of science courses in the pre-major.

Pathways Flexible Core: 19-20 credits

Students may take no more than two courses from any discipline or interdisciplinary field in the Flexible Core.

1. U.S. Experience in its Diversity (FUSR)

Students are required to complete the following course:
COR 100 United States: Issues, Ideas, and Institutions 3 credits

2. Scientific World (FSWR)

CSC 126 Introduction to Computer Science 4 credits

3. World Cultures and Global Issues (WC)

4. Creative Expression (CE)

5. Individual and Society (IS)

6. In addition to the above, students must select 1 course from any of the Flexible Core areas.

College Option 12 credits

Students are required to complete the following course:
Social Science or TALA 4 credits

Science Lab for RLPR or Math Lab for RMQR

STEM MTH Analytic Geometry and Calculus II 3 credits

STEM* AST 120 or AST 160 or BIO 170/171 or BIO 180/181 or CHM 141/121 or CHM 142/127 or PHY 120/PHY 121 or GEO 102/GEO 103 4 credits

*Also fulfills pre major requirement.

NOTE: Students may take courses in STEM areas of the Common Core that have 3 or more credits. This program has received a waiver to specify particular courses students must take in the areas of the Common Core and College Option. If students take different courses in these areas, they will be certified as having completed the Common Core and the College Option area, but it may not be possible for them to finish their degree program within the regular number of credits.

Pre-Computer Science Sequence: 4 credits

CSC 126 Introduction to Computer Science

A grade of C or above in CSC 126 is required for admission to the Computer Science Baccalaureate program. Students will be allowed to repeat the course, if necessary.

Pre-Major Requirements: 27-30 credits

MTH 229 Calculus Computer Laboratory
MTH 230 Calculus I with Pre-Calculus
MTH 232 Analytic Geometry and Calculus II or
MTH 229 Calculus Computer Laboratory
MTH 231 Analytic Geometry and Calculus I
MTH 232 Analytic Geometry and Calculus II and
CSC 211 Intermediate Programming (4 credits)
CSC 220 Computers and Programming (4 credits) AND

A one-year science sequence chosen from the list of courses below:
AST 120/AST 160 Space Science I and II
BIO 170, 171 General Biology I and II with laboratories
BIO 180, 181 General Biology I and II with laboratories
CHM 141, 121 General Chemistry I and II with laboratories
CHM 142, 127 General Chemistry I and II with laboratories
GEO 100/GEO 101, GEO 102/GEO 103 Geology with Laboratories
PHY 120, 121 General Physics I and II with laboratories
PHY 160, 161 General Physics I and II with laboratories

Four additional credits of science courses that provide the foundation for further study in the sciences. (4 credits)
Major Requirements:  55-58 credits

Students majoring in Computer Science must complete:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 228</td>
<td>Discrete Mathematical</td>
<td>4</td>
</tr>
<tr>
<td>MTH 232</td>
<td>Structures</td>
<td>3</td>
</tr>
<tr>
<td>CSC 326</td>
<td>Data Structures</td>
<td></td>
</tr>
<tr>
<td>CSC 330</td>
<td>Object-Oriented Software Design</td>
<td>4</td>
</tr>
<tr>
<td>CSC 332</td>
<td>Operating Systems I</td>
<td>3</td>
</tr>
<tr>
<td>CSC 305</td>
<td>Operating Systems Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CSC 346</td>
<td>Switching and Automata Theory</td>
<td>4</td>
</tr>
<tr>
<td>CSC 347</td>
<td>Computer Circuits Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CSC 382</td>
<td>Analysis of Algorithms</td>
<td>4</td>
</tr>
<tr>
<td>CSC 430</td>
<td>Software Engineering</td>
<td>4</td>
</tr>
<tr>
<td>CSC 446</td>
<td>Computer Architecture</td>
<td>4</td>
</tr>
<tr>
<td>CSC 490</td>
<td>Seminar in Computer Science</td>
<td>3</td>
</tr>
</tbody>
</table>

And

Two courses in Mathematics having MTH 232 or higher as a prerequisite (MTH 306 may not be used to fulfill this requirement).

Twelve -Fourteen credits from the following, at least eight credits must be taken in computer science courses. Students must take either CSC 226 and/or CSC 424 in these 12 -14 credits. Only two 200-level courses may be included in the twelve credits.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 223</td>
<td>Computer Hacking Revealed</td>
<td>3</td>
</tr>
<tr>
<td>CSC 225</td>
<td>Introduction to Web</td>
<td></td>
</tr>
<tr>
<td>CSC 226</td>
<td>Web Database Applications</td>
<td>3</td>
</tr>
<tr>
<td>CSC 227</td>
<td>Introductory Computer Game</td>
<td>3</td>
</tr>
<tr>
<td>CSC 229</td>
<td>Introduction to High Performance Computing</td>
<td>3</td>
</tr>
<tr>
<td>CSC 235</td>
<td>Robotic Explorations</td>
<td>3</td>
</tr>
<tr>
<td>CSC 420</td>
<td>Concepts of Programming</td>
<td>4</td>
</tr>
<tr>
<td>CSC 421</td>
<td>Internet Data Communications and Security</td>
<td>4</td>
</tr>
<tr>
<td>CSC 424</td>
<td>Database Management Systems</td>
<td>4</td>
</tr>
<tr>
<td>CSC 427</td>
<td>Advanced Computer Game</td>
<td>4</td>
</tr>
<tr>
<td>CSC 429</td>
<td>Advanced High Performing Computing</td>
<td>4</td>
</tr>
<tr>
<td>CSC 432</td>
<td>Operating Systems II</td>
<td>4</td>
</tr>
<tr>
<td>CSC 434</td>
<td>Compiler Construction</td>
<td>4</td>
</tr>
<tr>
<td>CSC 435</td>
<td>Advanced Data Communications</td>
<td>4</td>
</tr>
<tr>
<td>CSC 438</td>
<td>Mobile Application Development</td>
<td>4</td>
</tr>
<tr>
<td>CSC 462</td>
<td>Microcontrollers</td>
<td>4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENS 362</td>
<td>Introductory Computer Graphics</td>
<td>4</td>
</tr>
<tr>
<td>CSC 470</td>
<td>Image Processing in Computer Science</td>
<td>4</td>
</tr>
<tr>
<td>CSC 480</td>
<td>Artificial Intelligence</td>
<td>4</td>
</tr>
<tr>
<td>CSC 482</td>
<td>Discrete Simulation</td>
<td>4</td>
</tr>
<tr>
<td>CSC 484</td>
<td>Theory of Computation</td>
<td>4</td>
</tr>
</tbody>
</table>

OR

An additional four credit MTH course having MTH 232 or higher as a prerequisite. MTH 306 may not be used to fulfill this requirement.

A grade of C or above is required in all CSC courses that are prerequisites for courses in the major requirements. Students will be allowed to repeat courses, if necessary.

NOTE: Students planning to pursue a higher degree in Computer Science are recommended to take MTH 233.

Total Credits Required:  124

Computer Science–Mathematics (BS)

The Departments of Computer Science and Mathematics offer a joint BS degree program in Computer Science and Mathematics that provides a balance between these two disciplines with an emphasis on their applied aspects and their relationship to each other.

Pre-Computer Science Sequence

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 126</td>
<td>Introduction to Computer Science</td>
<td>4</td>
</tr>
</tbody>
</table>

A grade of C or above in CSC 126 will be required for admission to the Computer Science-Mathematics Baccalaureate program. Students will be allowed to repeat the course, if necessary.

Pre-Major Requirements:  25-29 credits

Students planning to major in Computer Science-Mathematics should complete the following requirements prior to their junior year.

Calculus sequence chosen from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH 230</td>
<td>Calculus I with Pre-Calculus</td>
<td>6</td>
</tr>
<tr>
<td>MTH 232</td>
<td>Analytic Geometry and Calculus II</td>
<td>3</td>
</tr>
<tr>
<td>MTH 233</td>
<td>Analytic Geometry and Calculus III</td>
<td>3</td>
</tr>
<tr>
<td>MTH 229</td>
<td>Calculus Computer Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>MTH 231</td>
<td>Analytic Geometry and Calculus I</td>
<td>3</td>
</tr>
<tr>
<td>MTH 232</td>
<td>Analytic Geometry and Calculus II</td>
<td>3</td>
</tr>
<tr>
<td>MTH 233</td>
<td>Analytic Geometry and Calculus III</td>
<td>3</td>
</tr>
<tr>
<td>MTH 229</td>
<td>Calculus Computer Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CSC 220</td>
<td>Computers and Programming</td>
<td>4</td>
</tr>
<tr>
<td>CSC 211</td>
<td>Intermediate Programming</td>
<td>4</td>
</tr>
</tbody>
</table>

A one-year science sequence with labs chosen from the following list of courses: 8 credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AST 120</td>
<td>System Science I</td>
<td>3</td>
</tr>
<tr>
<td>AST 128</td>
<td>System Science II</td>
<td>3</td>
</tr>
<tr>
<td>BIO 170</td>
<td>General Biology I</td>
<td>3</td>
</tr>
<tr>
<td>BIO 180</td>
<td>General Biology II</td>
<td>3</td>
</tr>
<tr>
<td>CHM 141</td>
<td>General Chemistry of or and II</td>
<td>3</td>
</tr>
<tr>
<td>CHM 142</td>
<td>General Chemistry of or and II</td>
<td>3</td>
</tr>
<tr>
<td>GEO 101</td>
<td>General Geology and Planet Earth</td>
<td>3</td>
</tr>
<tr>
<td>PHY 120</td>
<td>General Physics and or and II</td>
<td>3</td>
</tr>
<tr>
<td>PHY 160</td>
<td>General Physics and or and II</td>
<td>3</td>
</tr>
</tbody>
</table>

Major Requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH 228/</td>
<td>Discrete Mathematical Structures for Computer Science</td>
<td>4</td>
</tr>
<tr>
<td>CSC 228</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Computer Science

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 326</td>
<td>Data Structures</td>
<td>4</td>
</tr>
<tr>
<td>CSC 330</td>
<td>Object-Oriented Software Design</td>
<td>4</td>
</tr>
<tr>
<td>CSC 346</td>
<td>Switching and Automata Theory</td>
<td>3</td>
</tr>
</tbody>
</table>
Computer Science Courses

The courses in computer science are listed below. Students should consult a computer science advisor before registering for courses. CSC 102 Computing for Today is a general introductory course in computers. This course is not credited toward the major. CSC 115 fulfills the scientific analysis requirements. CSC 126 Introduction to Computer Science is the introductory course in the Associate’s degree Computer Technology program and the Bachelor’s degree in Computer Science program. CSC 126 is a general introductory course in computer science for engineering students and others with similar needs.

CSC 102  Computers for Today
6 hours; 4 credits
Basic computer concepts including hardware, operating systems, application software (word processing, spreadsheets, and database manager), networks, and the Internet. Internet protocols, Internet, intranets and the Web, Web development, multimedia, research, privacy, cyber security, e-commerce, and ethical issues. Not open to students who have successfully completed a 200-level computer course or BUS 150. NOTE: This course has a material fee.
Prerequisite: An appropriate score on the Math Proficiency/Placement Test or MTH 015 or MTH 020

CSC 112  Introduction to Word Processing
1 class hour, 2 laboratory hours - 7 weeks; 1 credit
The latest version of a popular word processing program will be taught. Topics will include creating and editing a file, using the spelling and thesaurus, formatting, printing, merging, footnotes, and macros.
Not open to students who have successfully completed CSC 102.

CSC 114  Elements of Computer Programming for the Technologies
1 class hour, 3 laboratory hours; 2 credits
Elements of computer programming for the technologies; arithmetic and logical operations and functions, comparison operators, loops, subroutines, input and output. Programs will be written in a higher-level computer language. Specialized packages for technological applications will be used. NOTE: This course has a material fee.
Pre- or corequisite: MTH 123

CSC 115  Introduction to Computer Technology
3 hours; 3 credits
An introduction for non-science students to fundamental concepts in computers and technology including information representation, development and application of algorithms, network and communication principles, and critical evaluation of technology tools.
Not open to students who have taken CSC 119 (science) (FSWR)
Prerequisite: MTH 020 or an appropriate score on the CUNY Mathematics Assessment Test.
Corequisite: CSC 117

CSC 116  Introduction to Database
1 class hour, 2 laboratory hours - 7 weeks; 1 credit
The latest version of a widely used database program will be taught. Topics will include creating and editing a file, sorting and indexing, printing reports and labels. Not open to students who have successfully completed CSC 102.
Prerequisite: Passing the CUNY Mathematics Assessment Test

CSC 117 Computer Technology Lab
2 hours; 1 credit
A laboratory experience illustrating the principles and topics in CSC 115. Not open to students who have taken CSC 119. (science)
Prerequisite: MTH 020 or an appropriate score on the CUNY Mathematics Assessment Test
Corequisite: CSC 115

CSC 118 Introduction to Spreadsheets
1 class hour, 2 laboratory hours - 7 weeks; 1 credit
The latest version of a widely used spreadsheet program will be taught. Topics will include creating and problem-solving using spreadsheets, entering data and formulas, correcting errors, the range, copy and formatting instructions, printing, tables, and graphs. Not open to students who have successfully completed CSC 102.
Prerequisite: Passing the CUNY Mathematics Assessment Test

CSC 119 Computer Technology Concepts
3 hours; 3 credits
An introduction to the concepts of representation, storage, usage, retrieval and protection of data in the digital world. (FSWR) Not open to students who have taken CSC 115. NOTE: This course is not recommended for students currently enrolled in or planning to pursue a BA, BFA, or BS degree.
Prerequisite: MTH 020 or an appropriate score on the CUNY Mathematics Assessment Test.

CSC 122 Computer and Windows
1 class hour, 2 laboratory hours; 2 credits
This course will introduce the novice to the essentials of Windows usage. Topics will include controlling the Windows graphical environment, customizing the desktop, screensavers, running programs, copying data between programs, and managing files with the File Manager. The supplied programs of Windows, the accessories, will be explored: Write, Terminal, Paintbrush, Notepad, Cardfile, Recorder, Calendar, and Calculator. Groups and the installation of programs will be taught. Not open to students who have completed CSC 326 or above.
Prerequisite: Passing the CUNY Mathematics Assessment Test

CSC 126 Introduction to Computer Science
3 class hours, 3 laboratory hours; 4 credits
Computing and information processing. Basic computer structure. Programming methodology: analysis, design, documentation, implementation, and evaluation. Algorithmic approach to problem solving. Computer solutions of several numerical and non-numerical problems. (FSWR) (STEM) NOTE: This course has a material fee.
Pre- or corequisite: MTH 123 or MTH 130 or MTH 221 or MTH 230 or MTH 231 or MTH 235

CSC 135 Introduction to Information Systems
(Also BUS 135)
2 class hours, 2 laboratory hours; 3 credits
A hands-on laboratory course in the effective use of technology tools for problem solving. Students will understand how copyright laws apply to software and the need to acknowledge material from outside sources, including online material and the work of others.
Corequisite: CSC 126

CSC 140 Algorithms and Computation
3 hours; 3 credits
An introduction to the major ideas of the science of computer programming such as abstraction, design, recursion, concurrency, simulations, and the limits of computation. Course includes an overview of the current social and ethical and scientific issues in the applications of programming, and the relevance of computer science concepts to society. (science)(FSWR)
Prerequisite: MTH 020 or an appropriate score on the CUNY Mathematics Assessment Test.
Corequisite: CSC 141

CSC 141 Algorithms and Computation Laboratory
2 hours; 1 credit
Lab corequisite for CSC 140 (science)
Prerequisite: MTH 020 or an appropriate score on the CUNY Mathematics Assessment Test.
Corequisite: CSC 140

CSC 205 Basic Desktop Publishing
1 class hour, 2 laboratory hours; 2 credits
A hands-on course designed to provide a practical introduction to the basics of text formatting and design. Text and graphics will be combined to produce printer-readable pages for publication. Topics will stress the transformation of otherwise plain-looking documents into professional-looking, more readable copy. Typefaces, type styles, type sizes and page layouts will be explored.
Prerequisite: CSC 102 or CSC 112

CSC 210 Applications Programming
3 class hours, 3 laboratory hours; 4 credits
Application of programming techniques to problems in business and data processing. State-of-the-art software packages to analyze and manipulate data for standard business applications will be taught. NOTE: This course has a material fee.
Prerequisite: A grade of C or above in either CSC 126 or CSC 270

CSC 211 Intermediate Programming
3 hours, 3 laboratory hours; 4 credits
A second course in programming. Programming techniques emphasizing reliability, maintainability, and reusability. Module design and multi-file programs. Abstract data types. Data representation and conversion. Addresses, pointers, and dynamic storage allocation. Recursion and function parameters. User interface design. Note: Not open to students who had a C or better in CSC 310
Prerequisite: CSC 126 with a grade C or better and MTH 123
CSC 215    Assistive Technology for Universal Applications
3 hours; 3 credits
An overview of the technological needs and the laws for accommodating persons with disabilities; descriptions of the technologies for persons with disabilities (blindness/visual impairments, audiological disabilities, physical disabilities, and cognitive disabilities); technologies used in the classroom, industry, independent living, and social interactions; training programs for these technologies. Hands-on labs with the appropriate technologies will be utilized.
Prerequisite: ENG 151

CSC 220    Computers and Programming
4 hours; 4 credits
Binary and hexadecimal number systems and digital representation of data. Introduction to computer systems organization, and architecture, processor, memory, and external devices. CPU instruction formats and execution, addressing techniques. Assembly language, programming techniques, program segmentation and linkage. The role of assembly language in software development. Students will complete computer projects in assembly language. Note: This course will be held in a laboratory. NOTE: This course has a material fee.
Prerequisite: A grade of C or above in either CSC 126 or CSC 270

CSC 223    Computer Hacking Revealed
2 class hour, 2 laboratory hours; 3 credits
A theoretical and practical survey of computer network and Web security, attack methods, and algorithms for defending computers and computer networks. Students learn about major security threats, methods and technologies used, and how threats affect the development and functioning of computer software and hardware.
Prerequisite: CSC 126 with a grade of C or higher.

CSC 225    Introduction to Web Development and the Internet
3 hours; 3 credits
An introduction to the Internet and Web page creation and management, using a markup language, a scripting language, a current editor, and a graphics program. Topics include incorporating graphics, sound, video and proper Web page development concepts. Students will prepare Web pages incorporating text, digitized images, scripts, animations, sound, and video.
Prerequisites: MTH 123

CSC 226    Web Database Applications
3 hours; 3 credits
This course offers students a mixture of theoretical and practical information on creating Web database applications. Students will learn open source technologies that are often combined to develop these applications. Students will model and design databases and query remotely located databases on the Web. Searching, browsing, storing user data, validating user input, managing user transactions, and security issues are discussed.
Prerequisites: CSC 126 with a grade of C or higher

CSC 227    Introductory Computer Game Programming
2 class hour, 2 laboratory hours; 3 credits
This course covers the process of game development. It also discusses the importance of testing, and how developers use the results of testing to improve their games. Students will be expected to develop simple games, or portions of games, using appropriate game development tools.
Prerequisites: CSC 126

CSC 228    Discrete Mathematical Structures for Computer Science
(Also MTH 228)
4 hours; 4 credits
A discrete mathematics course where concepts of discrete structures will be applied to computer science. Topics include elementary set theory, logic, functions, relations, Boolean algebra, elements of graph theory, matrix representation of graphs, and matrix manipulations, mathematical induction, counting techniques and discrete probability theory. NOTE: This course has a material fee.
Prerequisites: CSC 211 with a grade of C or higher; MTH 123 or MTH 130 or MTH 230 or MTH 231 or MTH 235

CSC 229    Introduction to High Performance Computing
2 class hour, 2 laboratory hours; 3 credits
An introduction to High Performance Computing. Parallel memory architectures and programming models with an emphasis on the MPI programming model. Issues related to designing parallel programs will be discussed. Examples of how to parallelize simple serial programs will be covered.
Prerequisites: CSC 126 with a grade of C or higher

CSC 235    Robotic Explorations
2 lecture hour; 2 laboratory hours; 3 credits
This course focuses on the theory behind robots and how it applies to existing platforms in the lab and in the field. Students will be introduced to the fundamentals of robotics. Concepts such as robot architectures, sensing, control, locomotion, and ethics are explored via hands-on exercises using multiple robot platforms.
Prerequisites: CSC 126 with a grade of C or higher and MTH 123

CSC 270    Introduction to Scientific Computing
6 hours; 4 credits
An introductory programming course with an emphasis on real-world engineering and scientific problem solving. Operators, input/output, mathematical functions, control structures, and arrays. Introduction to programming numerical techniques. Topics may include: interpolation, linear modeling (regression), root finding, numerical integration, solutions to simultaneous equations, graphing, signal processing. Not open to those who have successfully completed CSC 126.
Prerequisite: MTH 230 or MTH 231
CSC 305  Operating Systems Programming Laboratory
2 hours; 1 credit
Prerequisite: (CSC 220 or ENS 362) and CSC 326
Corequisite: CSC 305

CSC 310  Input/Output Operations and File Management
3 class hours, 3 laboratory hours; 4 credits
Files and file structures. Physical versus logical files. Secondary storage devices and system software. Input/output and access techniques. File organizations, indexing, and processing. The capabilities of file handling in at least one higher-level programming language will be explored. NOTE: This course has a material fee.
Prerequisite: CSC 126

CSC 315  Introduction to Database Systems
3 class hours, 2 laboratory hours; 4 credits
This course is an introduction to database systems with an emphasis on database design and implementation, business data modeling and analysis using modern data modeling languages and tools (i.e. Entity Relationship or UML models), as well as SQL query design and development for efficient and dynamic data processing in database applications. Topics also include fundamental database design techniques, basic concepts, methodologies and best practices for database optimizations and data integrity.
Prerequisites: CSC 211 or ISI 300

CSC 326  Data Structures
3 class hours, 3 laboratory hours; 4 credits
Fundamental data structures and their implementations, including lists, stacks, queues, priority queues and trees. Recursion, ADTs (abstract data types), algorithms for searching and sorting, basic algorithm analysis. NOTE: This course has a material fee.
Prerequisites: CSC 211 with a grade of C or higher or ENS 336; a knowledge of C programming language

CSC 330  Object-Oriented Software Design
3 class hours, 3 laboratory hours; 4 credits
Large-scale software design issues, object-oriented design paradigms, encapsulation, polymorphism, inheritance, reusability, and specifics of an object-oriented language and associated development tools. Students will be required to implement a substantial and well-engineered project using an object-oriented language. NOTE: This course has a material fee.
Prerequisite: CSC 326 with a grade of C or higher

CSC 332  Operating Systems I
3 hours; 3 credits
Prerequisites: (CSC 220 with a grade of C or higher or ENS 362) and CSC 326 with a grade of C or higher
Corequisite: CSC 305

CSC 334  Computer System Fundamentals
4 hours; 4 credits
The course covers concepts of hardware and software systems and programming concepts common to the corporate data processing environment. Topics include fundamentals of hardware and software, rudiments of operating systems, and communication between microcomputers and mainframes. Various software application and utility packages utilizing both mainframes and microcomputers will be studied.
Prerequisite: CSC 211

CSC 346  Switching and Automata Theory
4 hours; 4 credits
Prerequisite: CSC 220 with a grade of C or higher
Corequisite: CSC 347

CSC 347  Computer Circuits Laboratory
2 hours; 1 credits
The design and implementation of circuitry found in modern computers. Physical realizations of minimized switching functions. Design and implementation of finite state machines including synchronous sequential circuits and asynchronous sequential circuits.
Corequisite: CSC 346

CSC 382  Analysis of Algorithms
4 hours; 4 credits
Algorithm development, including running time analysis and correctness arguments. Topics include: asymptotic notation and complexity analysis; use of mathematical techniques to determine the computational complexity of algorithms such as sorting and searching. The course provides an introduction and analysis of elementary graph algorithms and programming techniques such as greedy, backtracking, and dynamic programming. Projects will be assigned to correlate the computational complexity and real-time execution time of the algorithms.
Prerequisites: CSC 326 with a grade of C or higher and CSC/MTH 228 with a grade of C or higher and MTH 232

CSC 405  Applied Concepts in Information Systems
(Also BUS 405)
3 class hours, 3 laboratory hours; 4 credits
The course covers applied concepts in information systems. Theory and methodology for the design, development, and implementation of large-scale reliable business software projects and tools and techniques for managing business software projects will be discussed. Presentations and GUI interfaces will be emphasized.
Prerequisites: CSC 326 and BUS 352
CSC 420     Concepts of Programming Languages
4 hours; 4 credits
Definition of programming languages, data types and declaration, storage allocation, statement types, operations, control structures, binding time, procedure, subroutine, function declaration, parameters, string manipulation. Several programming languages will be discussed and problems using these languages will be assigned.
Prerequisites: CSC 220 and CSC 326

CSC 424     Database Management Systems
4 hours; 4 credits
Introduction to database systems, concepts and architecture; conceptual data modeling with the Entity-Relationship Model; the Relational database model: concepts, languages, functional dependencies, database normalization and design; programming in SQL; concepts of integrity, security, transactions, concurrency, recovery, distributed and object-oriented databases are introduced. Study of several real-world database management systems. Students are required to implement a database application project in the area of their major interest.
Prerequisite: CSC 326 with a grade of C or higher

CSC 427     Advanced Computer Game Programming
4 hours; 4 credits
This course covers advanced principles and practices of computer game programming. The student will be exposed to the different aspects of game development including 2D and 3D asset creation, rendering and animation, sprites, AI for games, programming, and testing. The course emphasizes the hands-on computer programming aspect. Students will work in groups to develop and program games.
Prerequisite: CSC 326 with a grade of C or higher

CSC 429     Advanced High Performance Computing
3 class hours, 2 laboratory hours; 4 credits
Foundations of parallel computing. Algorithms for shared- and distributed-memory systems. Parallel computer architectures, performance, decomposition techniques for parallel algorithms, parallel programming models such as Open MP and MPI models, analytical modeling of parallel algorithms. Classical parallel algorithms and their implementation on parallel machines and performance analysis will be discussed.
Prerequisites: CSC 326 with a grade of C or higher

CSC 430     Software Engineering
3 class hours, 2 laboratory hours; 4 credits
Developing large-scale reliable software systems. Theory and methodology for the design and implementation of software systems from requirements analysis through design and implementation, testing, integration, and maintenance. Tools and techniques for all phases of a software system’s life cycle will be discussed. Documentation, testing, and management of large-scale systems. A significant project will be required.
Prerequisite: CSC 330 with a grade of C or higher

CSC 432     Operating Systems II
4 hours; 4 credits
Prerequisite: CSC 332

CSC 434     Compiler Construction
4 hours; 4 credits
Review of assembly techniques of symbol table techniques and macros, and of compilation, loading, and execution. One-pass compilation techniques. Translation of arithmetic expressions from prefix form to machine language. Detailed organization of a simple complete compiler.
Prerequisites: CSC 330 and CSC 326

CSC 435     Advanced Data Communications
4 hours; 4 credits
Concepts of circuit, packet, and message switched networks; local, campus, metropolitan, and wide area networks; concepts of data transmission; the emerging telecommunications industry, private networks, and integrated services digital networks.
Prerequisite: CSC 346

CSC 438     Mobile Application Development
4 hours; 4 credits
The principles of mobile app development. Topics will include memory management; user interface building; input methods; data handling; GIS, network techniques and URL loading; and, finally, specifics such as GPS and motion sensing. Projects will be deployed in real-world applications. Course work will include project conception, implementation, and pilot testing of mobile phone software applications.
Prerequisite: CSC 326 with a grade of C or higher or ISI 300

CSC 446     Computer Architecture
(Also ENS 446)
4 hours; 4 credits
Instruction formats and addressing schemes. Arithmetic and logic unit design. Control unit design: hardwired and microprogrammed. Main memory technology. Virtual, high-speed, associative, and read-only memories. Programmable logic arrays. Computer organizations including stack, parallel, and pipeline. System structures: time sharing, multiprocesssing, and networking. Digital com-
munications. Input/Output systems; direct memory access.
Prerequisite: CSC 346 with a grade of C or higher or ENS 220

CSC 450 Honors Workshop
4 hours; 4 credits
Students, with the approval of the department, work in teams on large-scale projects.
Prerequisites: Computer Science major with senior standing and departmental approval

CSC 462 Microcontrollers
(Also ENS 362)
2 class hours, 4 laboratory hours; 4 credits
Introduction to microcontrollers with an overview of the CPU architecture, instruction set, interface with target board, testing and program development using the structured assembly preprocessor. Interrupts and interrupt timing, analog-to-digital conversion and programming of peripheral chips will be some of the concepts covered in this class.
Prerequisite: ENS 220 or CSC 346

CSC 470 Introductory Computer Graphics
4 hours; 4 credits
Introduction to the basic concepts and techniques of interactive computer graphics including the hardware and software components of computer graphics systems and mathematical handling of graphical objects. Algorithms for two-dimensional and three-dimensional graphics: windowing, clipping, and transformations. Viewing with parallel and perspective projections. Possible additional topics include: curves and surface modeling; realistic rendering (shading with illumination and material, shading, reflection and surface texturing).
Prerequisite: CSC 326 with a grade of C or higher

CSC 475 Image Processing in Computer Science
4 hours; 4 credits
An introduction to the basic computational techniques and algorithms of digital image/video processing. The student will learn modern approaches to image acquisition, image enhancement, image compression, and image analysis.
Prerequisite: CSC 326 with a grade of C or higher
Pre or corequisite: MTH 338

CSC 480 Artificial Intelligence
4 hours; 4 credits
General introduction to artificial intelligence. Topics may include intelligent agents, search methods, heuristics, machine learning, logic, and robotics. Current topics in artificial intelligence will be introduced.
Prerequisite: CSC 326 with a grade of C or higher

CSC 482 Discrete Simulation
4 hours; 4 credits
Prerequisites: MTH 311 and CSC 326

CSC 484 Theory of Computation
4 hours; 4 credits
Prerequisites: A grade of C or above in (CSC 126 or CSC 270) and MTH 339 and (MTH 233 or MTH 236)

CSC 490 Seminar in Computer Science
3 hours; 3 credits
Invited speakers and students will lead discussions on the ethical and societal impact of the computer. Students will write and present papers on current research topics in the computing field.
Prerequisite: Computer Science major with senior standing; ENG 151 and CSC 330 with a grade of C or higher

CORE 100
Division of Humanities and Social Sciences, Building 1A, Room 312
Dean Nan Sussman
Coordinator, Donna Scimeca, Marchi Building (2N), Room 218

COR 100 United States: Issues, Ideas, and Institutions
3 hours; 3 credits
COR 100 is a required general education course that introduces CSI students to contemporary America’s constitutional democracy, multiracial society, and market economy, using the tools of the social sciences. The course seeks historical perspective by examining three formative periods in U.S. history: the American Revolution and debate over the Constitution, the African-American freedom struggle from slavery through the civil rights movement, and the evolving relationship between government regulation and the market economy during the 20th century. The course is writing intensive and is intended to develop logical, critical thought and expression. (FUSR)
Note: This course is required for all degrees to fulfill the US Experience and its Diversity area of the Flexible Core.
Prerequisite- or corequisite: ENG 111

CUNY Baccalaureate
Campus Coordinator: Suzy Shepardson, Bldg 1A, Room 101

Established in 1971, the CUNY BA/BS program is a small, University-wide alternate degree program intended for self-directed, academically strong students who have well-formulated academic and career goals. Students who are admitted to the program work on an individualized area of specialization with guidance from a CUNY faculty member who agrees to serve as a mentor. Students in this alternate degree program must also satisfy a core of general education requirements.
Although students in the program are matriculated at one CUNY college, they are free to take courses at any of the other CUNY colleges. To be eligible to apply, students must have a clear academic goal and must have completed at least 15 college credits with a grade point average of 2.50 or higher. The CUNY BA and BS degrees are fully accredited and are awarded by The City University rather than by an individual college. The program operates under the auspices of the CUNY Graduate School and University Center. Additional information may also be obtained at www.cunyba.cuny.edu.

Dance

(Minor)
Department of Performing and Creative Arts
Chairperson and Professor George Emilio Sanchez
Coordinator: Associate Professor Charles Thomas,
Center for the Arts (1P), Room 224

The minor in Dance is available to students in all baccalaureate programs. In conjunction with a major in Psychology, this minor prepares students for graduate work in dance therapy.

Requirements: 18 credits
Required courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DAN 101</td>
<td>Contemporary Dance Technique I</td>
<td>2</td>
</tr>
<tr>
<td>DAN 111</td>
<td>Choreography I</td>
<td>3</td>
</tr>
<tr>
<td>DAN 184</td>
<td>Afro-Haitian Rhythms I</td>
<td>2</td>
</tr>
</tbody>
</table>

Eleven credits to be selected from the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DAN 112</td>
<td>Choreography II</td>
<td>3</td>
</tr>
<tr>
<td>DAN 150</td>
<td>Dance History: Twentieth-Century</td>
<td>3</td>
</tr>
<tr>
<td>DAN 171</td>
<td>Improvisation I</td>
<td>2</td>
</tr>
<tr>
<td>DAN 172</td>
<td>Improvisation II</td>
<td>2</td>
</tr>
<tr>
<td>DAN 231</td>
<td>Ballet I</td>
<td>2</td>
</tr>
<tr>
<td>DAN 232</td>
<td>Ballet II</td>
<td>2</td>
</tr>
<tr>
<td>DAN 261</td>
<td>Modern Jazz Dance I</td>
<td>2</td>
</tr>
<tr>
<td>DAN 262</td>
<td>Modern Jazz Dance II</td>
<td>2</td>
</tr>
<tr>
<td>DAN 331</td>
<td>Private Study in Dance</td>
<td>2</td>
</tr>
</tbody>
</table>

It is recommended that DAN 160 Modern Dance Technique I or DAN 180 International Folk Dancing be taken as electives; these courses cannot be taken for credit toward the minor. A medical examination form must be on file in the College Health Center (Campus Center) prior to registration for DAN 160 and DAN 180.

Dance Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DAN 101</td>
<td>Contemporary Dance Technique I</td>
<td>3</td>
</tr>
<tr>
<td>DAN 102</td>
<td>Contemporary Dance Technique II</td>
<td>3</td>
</tr>
</tbody>
</table>

The progressive stages in the development of a technical vocabulary and movement patterns into the art form and expression of modern dance. Each stage develops naturally from the preceding one, contributing to the total advancement of the dance. For beginning students.

DAN 111  Choreography I
3 hours; 3 credits
I: Elements of Composition; II: Dance Composition. The art of the dance as a creative expression that offers students the opportunity to explore the traditional and experimental approach to choreography through interaction of time, space, and energy. It commands a critical judgment of one’s own creative experience and expression. For beginning students.
Prerequisite: DAN 101

DAN 112  Choreography II
3 hours; 3 credits
I: Elements of Composition; II: Dance Composition. The art of the dance as a creative expression that offers students the opportunity to explore the traditional and experimental approach to choreography through interaction of time, space, and energy. It commands a critical judgment of one’s own creative experience and expression. For beginning students.
Prerequisite: DAN 111

DAN 122  Black Dance Workshop
(Also AAD 122)
4 hours; 3 credits
Based on traditions of the peoples of Africa and the Caribbean, this course develops the technical language of Black dance, emphasizing the cultural interaction of native tradition and Western influence; the retelling of legends and tales through dance rhythms and symbolism.

DAN 150  Dance History: Twentieth-Century Survey
(Also AMS 150)
4 hours; 3 credits
Concentrating on the “pioneers of modern dance”—Duncan, Denishawn, Graham, Humphrey, Weidman, and others—as well as on the experimental and avant-garde, using lectures, demonstrations, video, and film to illustrate examples of outstanding choreography. The course includes the dances of other countries, coordinated with professional concerts and student reports. Includes “Happenings in Today’s World of Dance.” No dance background required. (arts & com.) (TALA)

DAN 160  Modern Dance Technique I
2 hours; 1 credit
Technical movement skills used in dance to further the appreciation of dance as an art form and experiment with dance movement for the beginning student. Professional dance films will be shown. Open to all students.

DAN 171  Improvisation I
3 hours; 2 credits
Experimenting with movement exploration to help develop sensitivity and creative response through free move-
ment patterns. Simple props sometimes used in impro-

**DAN 172  Improvisation II**  
3 hours; 2 credits  
Experimenting with movement exploration to help develop sensitivity and creative response through free movement patterns. Simple props sometimes used in improvising.  
Prerequisite: DAN 171

**DAN 180  International Folk Dance**  
2 hours; 1 credit  
Group dancing for both style and pleasure geared to the national characteristics and traditional folk dances from the British Isles, Russia, Germany, Greece, Israel, and the Scandinavian countries.

**DAN 184  Afro-Haitian Rhythms I**  
3 hours; 2 credits  
The history, theory, and practice of dance as performed in Haiti and other parts of the Caribbean. This course will introduce the student to the historical and anthropological sources of Afro-Haitian dance, as well as to its choreometrics.

**DAN 185  Afro-Haitian Rhythms II**  
3 hours; 2 credits  
The history, theory, and practice of dance as performed in Haiti and other parts of the Caribbean. This course will introduce the student to the historical and anthropological sources of Afro-Haitian dance, as well as to its choreometrics.  
Prerequisite: DAN 184

**DAN 201  Contemporary Dance Techniques III**  
3 hours; 2 credits  
The progressive stages in the development of a technical vocabulary and movement patterns translated into the art form and expression of modern dance, each stage developing naturally from the preceding one, contributing to the total advancement of the dance. For intermediate students.  
Prerequisite: DAN 102

**DAN 202  Contemporary Dance Techniques IV**  
3 hours; 2 credits  
The progressive stages in the development of a technical vocabulary and movement patterns translated into the art form and expression of modern dance, each stage developing naturally from the preceding one, contributing to the total advancement of the dance. For intermediate students.  
Prerequisite: DAN 201

**DAN 211  Choreography III**  
3 hours; 3 credits  
Elements of composition. The art of the dance as a creative expression that offers students the opportunity to explore the traditional and experimental approach to choreography through interaction of time, space, and energy. It commands a critical judgment of one's own creative experience and expression. For intermediate students only.  
Prerequisite: DAN 112

**DAN 212  Choreography IV**  
3 hours; 3 credits  
Elements of composition. The art of the dance as a creative expression that offers students the opportunity to explore the traditional and experimental approach to choreography through interaction of time, space, and energy. It commands a critical judgment of one's own creative experience and expression. For intermediate students only.  
Prerequisite: DAN 111

**DAN 231  Fundamentals of Ballet I**  
3 hours; 2 credits  
Using the five fundamental positions of feet and legs, and the associated positions of the arms, a vocabulary of classical ballet is developed and combined into longer dance phrases. Emphasis is placed on fluidity of movement for mastery of expression.

**DAN 232  Fundamentals of Ballet II**  
3 hours; 2 credits  
Using the five fundamental positions of feet and legs, and the associated positions of the arms, a vocabulary of classical ballet is developed and combined into longer dance phrases. Emphasis is placed on fluidity of movement for mastery of expression.

**DAN 261  Modern Jazz Dance I**  
3 hours; 2 credits  
The course includes basic technique and style of dance used with rhythmic improvisation in contemporary American jazz dance.

**DAN 262  Modern Jazz Dance II**  
3 hours; 2 credits  
The course includes basic technique and style of dance used with rhythmic improvisation in contemporary American jazz dance.  
Prerequisite: DAN 261

**DAN 331, 332, 333, 334  Private Study in Dance I, II, III, IV**  
2 credits each  
Students interested in the development of style and technical skills necessary for performance may earn credit through study under an approved teacher in repertory class. Evaluation of the work will include performances in dance workshops and concerts. Registration is by permission of a full-time member of the dance faculty.  
Prerequisite: Permission of instructor

**Disability Studies**  
(Minor)  
Interdisciplinary Program
Coordinator: Professor Eleni Tournaki
Department of Education Studies, Bldg 3S-219
718.982.3728

The minor in Disability Studies is an interdisciplinary course of study in which students select from a variety of courses concerned with matters of interest to persons with disabilities. The student is required to take a core set of courses in the social and psychological sciences supplemented by a choice from a list of disability-related courses. The minor may be taken in combination with any baccalaureate degree.

Minor Requirements 14-15 credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SWK 105</td>
<td>Introduction to Disability Studies</td>
<td>3</td>
</tr>
<tr>
<td>PSY 215</td>
<td>Psychological Perspectives on Disabilities</td>
<td>4</td>
</tr>
<tr>
<td>SOC 350</td>
<td>Psychosocial Aspects of Disabilities</td>
<td>4</td>
</tr>
<tr>
<td>EDP 220</td>
<td>Special Education Needs of the Developmentally Disabled</td>
<td>3</td>
</tr>
<tr>
<td>PSY 211</td>
<td>Methods of Applied Behavioral Analysis</td>
<td>4</td>
</tr>
<tr>
<td>SOC 345</td>
<td>Sociology of Mental Illness</td>
<td>4</td>
</tr>
<tr>
<td>SWK 107</td>
<td>Introduction to Developmental Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>ENL 306</td>
<td>Disabilities in Literature and Culture</td>
<td>4</td>
</tr>
<tr>
<td>SWK 440</td>
<td>Internship in Developmental Disabilities</td>
<td>4</td>
</tr>
<tr>
<td>SWK 594</td>
<td>Independent Study</td>
<td>4</td>
</tr>
</tbody>
</table>

Drama (BS)

Core Major Requirements: 56-60 Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRA 110</td>
<td>Acting I</td>
<td>4</td>
</tr>
<tr>
<td>DRA 140</td>
<td>Theater Studies</td>
<td>4</td>
</tr>
<tr>
<td>DRA 141</td>
<td>Theater Production</td>
<td>3</td>
</tr>
<tr>
<td>DRA 142</td>
<td>Theater Production Lab I</td>
<td>1</td>
</tr>
<tr>
<td>DRA 219</td>
<td>Theatre Learning Lab</td>
<td>4</td>
</tr>
<tr>
<td>DRA 221</td>
<td>Topics on Productions</td>
<td>4</td>
</tr>
<tr>
<td>DRA 241</td>
<td>Theatrical Imagination</td>
<td>4</td>
</tr>
<tr>
<td>DRA 306</td>
<td>Text/Performance/Adaptation</td>
<td>4</td>
</tr>
<tr>
<td>DRA 480</td>
<td>Senior Seminar</td>
<td>4</td>
</tr>
</tbody>
</table>

Two courses chosen from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRA 272</td>
<td>Performance Histories (Ancient to Early Modern)</td>
<td>4</td>
</tr>
<tr>
<td>DRA 273</td>
<td>Performance Histories (1600-1900)</td>
<td>4</td>
</tr>
<tr>
<td>DRA 274</td>
<td>Performance Histories (1901- Present)</td>
<td>4</td>
</tr>
</tbody>
</table>

Two courses chosen from the following foundational practices:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRA 217</td>
<td>Voice and Diction for Performance and Communication</td>
<td>4</td>
</tr>
<tr>
<td>DRA 218</td>
<td>Movement for Theatre and Performance</td>
<td>4</td>
</tr>
<tr>
<td>DRA 321</td>
<td>Directing</td>
<td>4</td>
</tr>
<tr>
<td>DRA 331</td>
<td>Design for Theater</td>
<td>4</td>
</tr>
</tbody>
</table>

Two courses chosen from the following specialized areas:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRA 280</td>
<td>Performance Industry Structures</td>
<td>4</td>
</tr>
<tr>
<td>DRA 305</td>
<td>Fusions: Theatre and Identity in the 21st Century</td>
<td>4</td>
</tr>
<tr>
<td>DRA 315</td>
<td>Theater and Education</td>
<td>4</td>
</tr>
<tr>
<td>DRA 350</td>
<td>Theater for Social Action</td>
<td>4</td>
</tr>
<tr>
<td>DRA 375</td>
<td>New Performance</td>
<td>4</td>
</tr>
<tr>
<td>DRA 480</td>
<td>Women in Performance</td>
<td>4</td>
</tr>
<tr>
<td>WGS 380</td>
<td>Foreign Language Requirement</td>
<td>4</td>
</tr>
</tbody>
</table>

Drama (BS) 

Electives: 18-22 Credits

Total Credits Required: 120

Honors

Students must have earned a GPA of 3.0 to gain permission to do a Junior or Senior Project. Students may enroll for these projects with the permission of the Drama Program and the agreement of the faculty who will be mentoring the project.

Drama Minor

Pre-minor requirements: 4 credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRA 110</td>
<td>Acting</td>
<td>4</td>
</tr>
</tbody>
</table>

Minor Requirements: 15 credits

At least 15 credits chosen from the following:

<table>
<thead>
<tr>
<th>Course</th>
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<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRA 140</td>
<td>Theater Studies</td>
<td>4</td>
</tr>
</tbody>
</table>
### Drama Courses

**DRA 100  Introduction to Theater**  
4 hours; 4 credits  
Introduction to theater as an art form that brings together performance, text, directing, and design, as well as aspects of the culture in which it is created. Students can expect to engage in theater exercises to learn about performance, to read plays, to do small design projects, and to see at least one professional theater production. There may be a modest expense for tickets. (arts & com.) (TALA)

**DRA 110  Acting I**  
4 hours; 4 credits  
An introductory class in acting built on exercises that may include those that develop the physicality, discipline, dramatic imagination, connection to character, and improvisatory skills of the actor. Students may also study beats and units of action, character development, and scene study.

**DRA 140  Theater Studies**  
4 hours, 4 credits  
An initial overview of the leading texts, performance styles, and visual aesthetics of theater. The class will include performance work, key dramatic texts and their cultural contexts and production histories, an introduction to dramaturgy, and a focus on learning to write about plays and performance. Students must receive a B or better in this class to proceed with a Drama major.  
Prerequisite: ENG 151

**DRA 141  Theater Production**  
3 hours, 3 credits  
Introduction to theory of stage design and technical theater through an exploration of types of theaters, different styles of scenery, costume and lighting design, textual analysis from a design point of view, sound effects and sound design, set construction drafting, white models, color wheel, sewing, and fabric swatches.  
Corequisite: DRA 142

**DRA 142  Theater Production Lab**  
2 hours, 1 credit  
The practical application of design and technical skills to a specific production. Students will work on faculty or student productions, under the supervision of the instructor of Theater Production, and/or other production designers. May be repeated for credit.  
Pre- or corequisites: DRA 141 and approval of either the instructor or the Performing and Creative Arts Department

**DRA 144  Acting II**  
4 hours; 4 credits  
This class will develop and deepen work begun in Acting I. At the instructor's discretion, students may be introduced to various acting and performance methods. Students will have the opportunity to perform before an audience.  
Prerequisite: DRA 110

**DRA 210  Acting II**  
4 hours; 4 credits  
A study of the emergence of Black theater in the United States, including the Harlem Renaissance, the radical theater of the 1960s and 1970s, and the work of contemporary Black playwrights and directors.

**DRA 205  African American Musical Theater**  
(Also AAD 205)  
4 hours; 4 credits  
A study of the musical theater of African Americans from its early beginnings in African culture to genius manifested in the 19th century, its influence on early vaudeville, its unique contribution to American musical theater, and the present-day popularity of its style. Whenever possible, current productions will be attended and studied in detail.

**DRA 202  African American Drama**  
(Also AAD 202)  
4 hours; 4 credits  
A historical overview of movement styles in the theatre, its early beginnings in African culture to genius manifested in the 19th century, its influence on early vaudeville, its unique contribution to American musical theater, and the present-day popularity of its style. Whenever possible, current productions will be attended and studied in detail.
dance. Students simultaneously engage in developing a critical understanding of the expressive power of movement through embodied practice. The class will expose students to multiple ways of using their bodies as a resource for creative expression, both through established techniques and through exercises to develop individual capacities in sensory awareness, flexibility, presence, rhythm, ensemble movement, use of the variables of time, space and energy.

Prerequisites: DRA 110, DRA 140

DRA 219  Theatre Learning Lab
4 hours; 4 credits
Students will create a research and/or art-based project during a semester in which they have an acting role, or function as stage manager, assistant director, assistant designer, or dramaturg in a department main stage production. With faculty guidance, students will develop their respective projects in a way that is related to their involvement in the production, using provided project categories and guidelines specific to each category.
Prerequisite: DRA 140

DRA 221  Topics on Production
4 hours; 4 credits
A study of the interdisciplinary issues that intersect with the play currently being directed by a member of the theater faculty. Students may also study alternative or updated versions of the play, and experiment with related performance genres. Plays will be chosen specifically for the richness of their historical and cultural scope. The instructor for this course and the director of the play, if they are not the same person, will work together on materials for this course. All students taking this course will be involved in some way in the production itself: as actors, assistant designers, carpenters, lighting technicians, or technical crew.
Prerequisite: DRA 140

DRA 235  Introduction to Stage Management
4 hours; 3 credits
Principles and practices of contemporary stage management. Interprets the function of the stage manager in the entire production process. Identifies the relationship of the stage manager to the director, designers, technical director, actors, stage hands, and costume and properties managers. Specifies responsibilities and practices.
Prerequisite: ENG 111

DRA 271  Performance II
4 hours; 3 credits
Performance of a play. Students will be involved in various aspects of theatrical presentation. NOTE: This course has a material fee.
Prerequisite: Permission of the instructor

DRA 272  Performance Histories (Ancient to Early Modern)
4 hours, 4 credits
Survey of historical performance forms from Egyptian, Sanskrit, and Greek, through the European Medieval theater, Asian theater through 1600, the European Renaissance, and the Spanish Golden Age. Performance will be considered in this class as an integral and vital part of social, political, and cultural dynamics. This survey will put the Western theater tradition in perspective as only one of many traditions that exist, or have existed, across the world at different times. Students who wish to continue in the major should earn a B- or better in the course. (arts & com.) (TALA) NOTE: This course satisfies the College Option.
Prerequisite: ENG 151 or DRA 140

DRA 273  Performance Histories (1600-1900)
4 hours; 4 credits
A survey of the English Restoration, French Neo-Classicicism and the comedies of Molière, and the ensuing century of diverse theatrical forms during the 1700s in England and France. Students will also study Asian and African forms of performance and then the emergence of theater in the U.S., including populist entertainments like the Wild West show, minstrelsy, and melodrama, and move back to Europe for the beginnings of realism and naturalism with Ibsen and Chekhov. Performance will be considered in this class as an integral and vital part of social, political, and cultural dynamics. Students who wish to continue in the major should earn a B- or better in the course. (arts & com.) (TALA) NOTE: This course satisfies the College Option.
Prerequisite: ENG 151 or DRA 140

DRA 274  Performance Histories (1901-Present)
4 hours; 4 credits
A survey of the range of 20th-century performance beginning with the historical avant-garde movements in Europe and the U.S. after World War I. It also includes South Asian Indian, Asian, and/or South Asian performance forms, especially including cross- or intercultural experimentation. It may include the Harlem Renaissance, feminist theater, the experimental theater of the 1960s and 1970s, Latino theater, Gay theater, political street theater, performance art, image theater, and puppetry. Performance will be considered in this class as an integral and vital part of social, political, and cultural dynamics. Students who wish to continue in the major should earn a B- or better in the course. (arts & com.) (TALA) NOTE: This course satisfies the College Option.
Prerequisite: ENG 151 or DRA 140

DRA 280  Performance Industry Structures
4 hours; 4 credits
An overview of the current organizations and structures in place nationally for the creation of performance with an emphasis on those in the New York City area. In addition major unions, not-for-profit theaters, producers, practitioners and government organizations will have their structures, history, and functions examined. Through a combination of research and creative projects, students will gain an understanding of the reasons for the existing industry structure and how it can be successfully utilized and subverted.
Prerequisite: DRA 140

DRA 305  Fusions: Theatre and Identity in the 21st Century
4 hours; 4 credits
An investigation into current theatre and performance practices which create innovations in issues of identity,
including race and ethnicity, gender, sexuality, nationality, and class. Students will look at how theatre companies, playwrights, and producing organizations are working at new crossroads to forge specifically 21st century expressions of identity. The course asks how we enjoy identities located and unsettled and recombined with regard to geopolitics? How does place re-making happen? How does shared space provide opportunity for community/community that re-shapes identity politics? And how do we understand our own position with regard to re-negotiations between identity, politics, and performance?

Prerequisite: DRA 140 and (DRA 272 or DRA 273 or DRA 274)

DRA 306  Text/Performance/Adaptation
4 hours; 4 credits
An advanced course in theatrical literature and performance. Students will read three foundational Western plays from each of three historical contexts during which theatrical production was especially intense and innovative: Athenian, Renaissance, and the mid-20th century avant-garde, or equivalents. These plays provide a platform from which to understand how these texts have generated new work across cultural, temporal, geopolitical, and affective frames. The course moves through the practice of reading the traditional and classic "play" to its inter- and inter-textual qualities as performance at multiple sites and situations. Students will both be exposed to these foundational plays and understand their complexities as active, social, and performed entities.

Prerequisite: DRA 140 and (DRA 272 or DRA 273 or DRA 274)

DRA 310  Acting III
4 hours; 3 credits
Work on scenes, encouraging the actor to explore a variety of characters and to perform them before an audience.

Prerequisite: DRA 210

DRA 314  Media Workshop for Actors/Directors
(Also COM 314)
An examination of the actor/director relationship as it applies in the various media: stage, film, and television. Students will have an opportunity to work both as actors and directors. New work from writing classes will be encouraged for student projects.

Prerequisite: COM 210

DRA 315  Theater and Education
4 hours; 4 credits
A theoretical and experiential approach to the ways that theater can be used as a tool by elementary and secondary school teachers. Students will study excerpts of key texts and learn theatrical games and exercises for application in the classroom.

Prerequisite: Any 200-level ENH course

DRA 321  Directing
4 hours; 4 credits
An introduction to the complex art of directing. Students will begin by considering the question of what it is that a director does, and developing a range of basic skills and theatrical languages. By the end of the class, students will have the opportunity to direct a scene. Students are required to act in the scenes and exercises directed by other students.

Prerequisites: DRA 110, DRA 373

DRA 331  Design for the Theater
4 hours; 4 credits
An overview of design practices in theater history with a combined emphasis on developing student skills in conceptualizing a design and preparing materials to present that design.

Prerequisites: DRA 141, DRA 142, DRA 373

DRA 345  Spanish Theater
(Also SPN 345)
4 hours; 4 credits
Discussion of ideas, background, and staging traditions of representative Spanish-language plays from the Golden Age to the present. The course is taught in English. Readings and assignments in Spanish required for majors; readings and assignments may be done in English for non-majors. (literature) (TALA) NOTE: This course satisfies the College Option.

Prerequisite: SPN 313 or equivalent for those doing readings and assignments in Spanish; ENG 151 or a 200-level English course for those doing readings and assignments in English

DRA 350  Theater for Social Action
4 hours; 4 credits
A survey of the history and practice of community-based theater. Theater groups like the San Francisco Mime Troupe, El Teatro Campesino, At the Foot of the Mountain, and The Heart of the Beast, will be studied as examples of how the significance of theater as an art form can be expanded through a commitment to social justice and aesthetic diversity.

Prerequisites: DRA 110; DRA 272 or DRA 273 or DRA 274

DRA 352  Theater and Therapy
4 hours; 4 credits
An overview of how theater and theater techniques can be applied for therapeutic needs and as an alternative to violence. Through exercises, students will be encouraged to experience their physicality, develop their ability to express their emotions, and to nurture individual insight and awareness of themselves and others. The work of Augusto Boal will form the foundation for the course.

Prerequisite: DRA 110, or any 200-level ENH course

DRA 354  English Drama to 1800
(Also ENL 354)
4 hours; 4 credits
Selected works with emphasis on Elizabethan and Jacobean drama (exclusive of Shakespeare), and Restoration and 18th-century drama.

Prerequisite: An ENH 200-level course or ENL 290

DRA 355  Modern European Drama
(Also ENL 355)
4 hours; 4 credits
A study of the major dramatists of the modern European theater, with an emphasis placed upon the development of dramatic styles and themes, as well as the theatrical context in which the plays were produced.
Prerequisite: An ENH 200-level course or ENL 290

DRA 356 American Drama
(Also ENL 356)
4 hours; 4 credits
Readings of plays by O'Neill, Williams, Miller, and others who have dramatized the conflicts and predicaments of 20th-century Americans.
Prerequisite: An ENH 200-level course or ENL 290

DRA 357 World Drama to 1800
(Also ENL 357)
4 hours; 4 credits
Selected plays from the Greeks to 1800.
Prerequisite: An ENH 200-level course or ENL 290

DRA 358 World Drama since 1800
(Also ENL 358)
4 hours; 4 credits
Selected plays from 1800 to the present.
Prerequisite: An ENH 200-level course or ENL 290

DRA 359 Contemporary Drama
(Also ENL 359)
4 hours; 4 credits
Major figures, works, and movements in dramatic literature since World War II, with special emphasis on the last two decades.
Prerequisite: An ENH 200-level course or ENL 290

DRA 361 The Early Shakespeare
(Also ENL 361)
4 hours; 4 credits
A selection of Shakespeare’s work written before 1600: early and middle comedies, the major histories, the earlier tragedies, and the poems.
Prerequisite: An ENH 200-level course or ENL 290

DRA 362 The Later Shakespeare
(Also ENL 362)
4 hours; 4 credits
A selection of Shakespeare’s work written after 1600: the major tragedies, the problem plays, the late comedies and romances.
Prerequisite: An ENH 200-level course or ENL 290

DRA 373 The Theatrical Imagination
4 hours; 4 credits
Investigation of theater as a uniquely visual medium that is dependent on the imaginative use of bodies in sculpted space. Students will work to extend the use of their own bodies and experiment with diverse materials to learn to create imaginative stage images. They will also study the work of artists, sculptors, and theater artists who work in striking configurations of space, material elements, and bodies. The course is useful to all students of theater, whether they are interested in acting, directing, or design.
Prerequisites: DRA 140; DRA 272 or DRA 273 or DRA 274

DRA 375 New Performance
4 hours; 4 credits
A consideration of artists who work in performance art, solo performance, puppetry, performance-choreography, and performance-technology. Students will create their own works in one or more of these genres. Each student will be expected to write original performance texts. Students are welcome to work with video, film, and/or Web-based technology in this class.
Prerequisites: DRA 110, DRA 373

DRA 380 Women in Performance
(Also WGS 380)
4 hours; 4 credits
This class is a study of performing women, in particular women performance artists, who have made a significant difference in helping women’s images and voices to achieve greater representation in culture as a whole. Students will study works by the artists, reviews and critical writing about the works, and create their own performances.
Prerequisite: Any 200-level ENH or WGS course

DRA 410 Acting IV
4 hours; 3 credits
Work on more complex scenes leading to their performance before an audience.
Prerequisite: DRA 310

DRA 426 Classical French Drama
(Also FRN 426)
4 hours; 4 credits
Plays of Corneille, Racine, Molière, with special emphasis on the continuing role of Molière in the world’s theater.
(literature) (TALA) NOTE: This course satisfies the College Option.
Prerequisite: FRN 313 or equivalent for those doing readings and assignments in French; ENG 151 for those doing readings and assignments in English, and at least two 300-level courses in dramatic literature or English

DRA 465 Spanish Theater in the 20th Century
(Also SPN 465)
4 hours; 4 credits
Principal tendencies in Spanish theater in the 20th century. Including an analysis of the major works of dramatists such as Benavente, Valle-Inclán, García Lorca, Mihura, Buero Vallejo, Alfonso Sastre, Carlos Muniz, Lauro Olmo, Arrabal, Antonio Gala, and others. (literature) (TALA) NOTE: This course satisfies the College Option.
NOTE: Dramatic arts students should also consider: ENL 272 Playwriting I, ENL 373 Craft of Playwriting, and ENL 435 Playwright’s Workshop
Prerequisite: SPN 313 or equivalent
DRA 470       Junior Project
4 hours; 4 credits
Student-initiated work that extends and develops his or her area of interest. Proposed to and supervised by a faculty member, a student might wish to develop an acting scene or monologue, direct a scene or one-act, design a puppetry piece or performance installation, do a theater-based video piece, design a one-act, do an independent academic research project, or stage manage a production. The project is undertaken by an individual student, but that student may ask other students to participate in his or her project. Sophomores may be granted permission by a faculty member to do stage management and get credit for the Junior Project.
Prerequisite: Permission of instructor

DRA 480       Senior Seminar
4 hours; 4 credits
An advanced course for seniors taught by members of the Drama faculty according to faculty specialties in the field of theatre and performance. Course content will therefore be different in each class, but will be expected to introduce students in a rigorous way to contemporary scholarship, research, and artistic performances within a particular area of interest. Students will meet in a seminar format, discussing in-depth readings and independent research. The class is a capstone for students, allowing them to accomplish a final level of research skills and critical practice necessary for post-graduation work. Additionally, some class meetings will be devoted to a presentation of post-graduation options for students, with the goal of aiding students in understanding how they can most effectively continue on in pursuit of their interests and capacities.
Prerequisites: Two course from (DRA 272, DRA 273, DRA 274) and two 300-level DRA courses

DRA 490       Senior Project
4 hours; 4 credits
Same as the Junior Project but faculty members may agree to supervise more advanced work than when students are juniors.
Prerequisite: Permission of instructor

East Asian Studies

(Minor)
Division of Humanities and Social Sciences, 1A, Room 312
Contact: Dean Nan Sussman
Coordinator: Associate Professor Cary Karacas, Department of Political Science and Global Affairs, Bldg 2N, 230
Telephone: 718.982.2890

Minor Requirements

1. Chinese or Japanese language at any level
   CHN 112 Beginning Mandarin Chinese I 3 credits
   CHN 114 Basic Mandarin Chinese II 4 credits
   CHN 120 Intensive Mandarin Chinese I 4 credits
   CHN 213 Continuing Mandarin Chinese I 4 credits
   CHN 215 Continuing Mandarin Chinese II 4 credits
   CHN 220 Intensive Mandarin Chinese II 4 credits
   CHN 313 Advanced Communication Skills in Mandarin Chinese 4 credits
   JPN 113 Basic Japanese I 4 credits

2. East Asian Studies Courses 12 credits
   CHN 315 Languages in Contrast: English and Chinese 4 credits
   CIN 203 Chinese Cinema 4 credits
   CIN 325/ East Asian Popular Culture 4 credits
   COM 325 4 credits
   CIN 326/ Japanese Cinema: Theory and History 4 credits
   ECO 257 The Japanese Economy 4 credits
   ENH 207 Asian Literature Before 1900 4 credits
   ENL 335 Modern East Asian Literature 4 credits
   GEG 221 Geography of East Asia 4 credits
   GEG 365 The City of East Asia 4 credits
   HST 204 Introduction to Asian Civilization 4 credits
   HST 206 Modern China 4 credits
   HST 209 Modern Japan 4 credits
   HST 211 Japanese Civilization 4 credits
   HST 213 Chinese Civilization 4 credits
   HST 234 Asian Tigers since 1945 4 credits
   HST 325 The Silk Road 4 credits
   HST 327 The World of Late Imperial China 4 credits
   HST 372 The World of Tokugawa Japan 4 credits
   POL 256 East Asian Politics 4 credits
   POL 353 China: Politics and Foreign Relations 4 credits
   PHL 344 East Asian Philosophy 4 credits
   SOC/ANT Modern Korean Culture 4 credits

Earth and Environmental Science

Earth and Environmental Science (BS)
Bachelor of Science
Department of Engineering Science and Physics, Building 1N, Room 226
Chairperson and Professor Neophytos (Neo) Antoniades
Program Coordinator: Jane Alexander

Major requirements: 67-70 credits

GEO 102 Earth Systems History 3 credits
GEO 103 Earth Systems History Laboratory 1 credit
GEO 115 Fundamentals of Physical Geology 3 credits
GEO 116 Fundamentals of Physical Geology Laboratory 1 credit
ESC 110 Meteorology and Climate 3 credits
ESC 111 Meteorology and Climate Laboratory 1 credit
MTH 229 Calculus Computer Laboratory 1 credit
AND
MTH 230 Calculus I with Pre-Calculus 6 credits
OR

MTH 231 Analytical Geometry and Calculus I 3 credits

AND

MTH 232 Analytical Geometry and Calculus II 3 credits

CHM 141 General Chemistry I 3 credits
CHM 121 General Chemistry I Laboratory 1 credit
CHM 142 General Chemistry II 3 credits
CHM 127 General Chemistry II Laboratory 1 credit
PHY 120 General Physics I 3 credits
PHY 121 General Physics I Laboratory 1 credit
PHY 160 General Physics II 3 credits
PHY 161 General Physics II Laboratory 1 credit
BIO 170 General Biology I 3 credits
BIO 171 General Biology Laboratory I 1 credit
BIO 180 General Biology II 3 credits
BIO 181 General Biology II Laboratory 1 credit
BIO 230 Marine Biology and Oceanography 4 credits
GEO 210 Earth Materials 4 credits
GEO 212 Sedimentology and Stratigraphy 4 credits
GEO 310 Geochemistry 4 credits
GEO 450 Internship 4 credits

One course chosen from the following requiring a significant field or lab project:

GEO 315 Residential Field Course 4 credits
GEO 410 Geospatial Data Analysis 4 credits
GEO 460 Capstone Research Seminar and Thesis 4 credits

Two courses chosen from the following 6-7 credits major electives. At least one course must be at the 300 level or higher.

GEO 222 Geophysics 3 credits
GEO 230 Planetary Geology 3 credits
GEO 320 Invertebrate Paleontology 4 credits
GEO 322 Structural Geology 4 credits
GEO 325 Marine Biology 3 credits
ESC 402 The Science of Global Warming 3 credits

Total Credits Required: 120

Honors
Students may graduate with honors if they maintain a 3.5 GPA in the major, and complete GEO 460 Capstone Research Seminar and Thesis.

Earth Science

Earth Science 7-12 (BS)
Bachelor of Science
Department of Engineering Science and Physics, Building 1N, Room 226
Chairperson and Professor Neophytos (Neo) Antoniades
School of Education
Dean Kenneth Gold,
Program Coordinator: Jane Alexander

Pathways General Education Requirements: 42 Credits

Pathways Required Core: 12 credits
Required English Composition Requirement (RECR)
ENG 111 Introduction to College Writing 3 credits
ENG 151 College Writing 3 credits

Required Mathematical and Quantitative Reasoning Requirement (RMQR)
Students are required to complete the following course:
MTH 231 Analytic Geometry and Calculus I 3 credits

NOTE: Students may be required to take a prerequisite for MTH 231.

Required Life and Physical Sciences Requirement (RLPR)
Students are required to complete the following courses:
CHM 141* General Chemistry I 3 credits
PATHWAYS Flexible Core: 18 credits
Students may take no more than one course from any area and no more than two courses from any discipline or interdisciplinary field in the Flexible Core.

Flexible U.S. Experience in its Diversity Requirement (FUSR)
Students are required to complete the following course:
COR 100 United States: Issues, Ideas, and Institutions 3 credits

Flexible Scientific World Requirement (FSWR)
Students are required to complete the following courses:
CHM 141* General Chemistry I 3 credits
PHYS 120 General Physics I 3 credits

Flexible Individual and Society Requirement (FISR)
PSY 100 Psychology 3 credits

Flexible World Cultures and Global Issues Requirement (FWGR)
3 credits
Flexible Creative Expression Requirement (FCER)  3 credits

College Option  12 credits
Students are required to complete the following courses:

<table>
<thead>
<tr>
<th>Area</th>
<th>Course No.</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Social Science</td>
<td>EDP 220</td>
<td>Special Educational Needs of People with Disabilities</td>
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<tr>
<td>Science Lab for RLPR</td>
<td>CHM 121*</td>
<td>General Chemistry I Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>Science Lab for FSWR</td>
<td>CHM 127*</td>
<td>General Chemistry II Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>STEM</td>
<td>MTH 232*</td>
<td>Analytic Geometry and Calculus II</td>
<td>3</td>
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<tr>
<td>STEM</td>
<td>GEO 210*</td>
<td>Earth Materials</td>
<td>4</td>
</tr>
</tbody>
</table>

*Also fulfills major requirements.

Note: This program has received a waiver to specify particular courses students must take in the areas of the Common Core and Scientific World and College Option. If students take different courses in these areas, they will be certified as having completed the Common Core and the College Option area, but it may not be possible for them to finish their degree program within the regular number of credits.

**Major requirements:** 67-70 credits

<table>
<thead>
<tr>
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<th>Credits</th>
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<td>GEO 102</td>
<td>Earth Systems History</td>
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<tr>
<td>GEO 103</td>
<td>Earth Systems History Laboratory</td>
<td>1 credit</td>
</tr>
<tr>
<td>GEO 115</td>
<td>Fundamentals of Physical Geology</td>
<td>3 credits</td>
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<tr>
<td>GEO 116</td>
<td>Fundamentals of Physical Geology Laboratory</td>
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</tr>
<tr>
<td>ESC 110</td>
<td>Meteorology and Climate</td>
<td>3 credits</td>
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<td>6 credits</td>
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<td>PHY 160</td>
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<td>BIO 170</td>
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<tr>
<td>BIO 171</td>
<td>General Biology Laboratory I</td>
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<tr>
<td>BIO 180</td>
<td>General Biology II</td>
<td>3 credits</td>
</tr>
<tr>
<td>BIO 181</td>
<td>General Biology II Laboratory</td>
<td>1 credit</td>
</tr>
<tr>
<td>BIO 230</td>
<td>Marine Biology and Oceanography</td>
<td>4 credits</td>
</tr>
<tr>
<td>GEO 210</td>
<td>Earth Materials</td>
<td>4 credits</td>
</tr>
<tr>
<td>AST 230/GEO 230</td>
<td>Planetary Geology</td>
<td>3 credits</td>
</tr>
<tr>
<td>GEO 310</td>
<td>Geochemistry</td>
<td>4 credits</td>
</tr>
<tr>
<td>EDS 201</td>
<td>Social Foundations of Secondary Education</td>
<td>4 credits</td>
</tr>
<tr>
<td>EDS 202</td>
<td>Psychological Foundations of Secondary Education</td>
<td>4 credits</td>
</tr>
<tr>
<td>EDS 304</td>
<td>The Pedagogy of Secondary School in Science</td>
<td>4 credits</td>
</tr>
<tr>
<td>EDS 318</td>
<td>The Secondary School Curriculum in Science</td>
<td>4 credits</td>
</tr>
<tr>
<td>EDS 400</td>
<td>Student Teaching in Secondary Education</td>
<td>6 credits</td>
</tr>
<tr>
<td>EDS 401</td>
<td>Reflection and Analysis in Secondary Education</td>
<td>2 credits</td>
</tr>
</tbody>
</table>

**Total Credits Required: 120**

**Honors**
Students may graduate with honors if they maintain a 3.5 GPA in the major, and complete GEO 460 Capstone Research Seminar and Thesis.

**Economics**
(Bachelor of Arts, Bachelor of Science, Business Specialization, Finance Specialization, Minor)
School of Business
Dean, Susan Holak, BS, MPhil, PhD
Department of Economics, Building 2N, Room 224
Department Chairperson and Associate Professor Vasilios Petratsos

The Economics program serves several different student needs. It provides a major in Economics for students interested in the study of the subject at the bach-
oler’s degree level or in preparation for graduate study of economics. A Business specialization and a Finance specialization are available for those interested in pursuing the bachelor of science degree in Economics. The bachelor of arts degree requires that ¾ of the credits towards the degree be liberal arts and science courses. The bachelor of science degree requires that ½ of the credits towards the degree be liberal arts and science courses.

Economics (BA)

Major Requirements: 44-48 credits
- ECO 111 Introduction to Microeconomics 4 credits
- ECO 112 Introduction to Macroeconomics 4 credits
- ECO 210 Intermediate Microeconomics 4 credits
- ECO 212 Intermediate Macroeconomics 4 credits
- ECO/MGT 230 Introduction to Economic and Managerial Statistics 4 credits
- ECO 323 Introduction to Econometrics 4 credits
- At least three additional ECO courses at the 300 or 400 level 12 credits
- At least two additional ECO courses at the 200, 300, or 400 level 8 credits

Computer Proficiency Requirement: 0-4 credits
In addition, Economics majors must demonstrate computer proficiency in one of the following ways:
- Successful completion of any course in computer science
- Successful completion of BUS 150 Essential Software Tools for Business
- Demonstration of proficiency with computers in a manner satisfactory to the Economics faculty (CSC 108, 112, 114, 116, 118, special focus, abbreviated courses, do not meet this requirement.)

Electives: 30-34 credits

Total Credits Required: 120

Liberal Arts and Sciences Requirement:
The New York State Department of Education requires that ¾ of the credit hours in a Bachelor of Arts (BA) program be liberal arts and sciences credits. For further information please refer to the Liberal Arts and Science Requirement section of the catalog.

Honors
To graduate with honors in Economics a student must have a 3.5 grade point average in economics courses and must complete a thesis or project determined by the student and his or her faculty sponsor, and the course POL/ECO/PHL 490 Senior Seminar in Political Science, Economics, and Philosophy.

Economics (BS)

Within the major in Economics, the College offers two specializations, Business and Finance, combining the major in Economics with the study of selected courses in business. The program is administered jointly by the Department of Economics and the School of Business. The specialization adds courses useful to students who plan to pursue careers in business or finance and/or continue their education.

Economics BS

Major Requirements: 44-48 credits
- ECO 111 Introduction to Microeconomics 4 credits
- ECO 112 Introduction to Macroeconomics 4 credits
- ECO 210 Intermediate Microeconomics 4 credits
- ECO 212 Intermediate Macroeconomics 4 credits
- ECO/MGT 230 Introduction to Economic and Managerial Statistics 4 credits
- ECO 323 Introduction to Econometrics 4 credits
- At least three additional ECO courses at the 300 or 400 level 12 credits
- At least two additional ECO courses at the 200, 300, or 400 level 8 credits

Computer Proficiency Requirement: 0-4 credits
In addition, Economics majors must demonstrate computer proficiency in one of the following ways:
- Successful completion of any course in computer science
- Successful completion of BUS 150 Essential Software Tools for Business
- Demonstration of proficiency with computers in a manner satisfactory to the Economics faculty (CSC 108, 112, 114, 116, 118, special focus, abbreviated courses, do not meet this requirement.)

Electives: 30-34 credits

Total Credits Required: 120

Economics BS: Business Specialization

Major Requirements: 53-57 credits
- ECO 111 Introduction to Microeconomics 4 credits
- ECO 112 Introduction to Macroeconomics 4 credits
- ECO 210 Intermediate Microeconomics 4 credits
- ECO 212 Intermediate Macroeconomics 4 credits
- ECO/MGT 230 Introduction to Economic and Managerial Statistics 4 credits
- ECO 323 Introduction to Econometrics 4 credits
- At least two additional ECO courses at the 300 or 400 level 8 credits
- At least one additional ECO courses at the 200, 300, or 400 level 4 credits

Computer Proficiency Requirement: 0-4 credits
In addition, Economics majors must demonstrate computer proficiency in one of the following ways:
- Successful completion of any course in computer science
- Successful completion of BUS 150 Essential Software Tools for Business
- Demonstration of proficiency with computers in a manner satisfactory to the Economics faculty
- (CSC 108, 112, 114, 116, 118, special focus, abbreviated courses, do not meet this requirement.)

Business Specialization: 17 credits
- ACC 114 Accounting I 4 credits
- ACC 121 Accounting II 4 credits
- MGT 110 Organizational Theory and Management 3 credits
- MKT 111 Marketing 3 credits
- ECO/FNC Managerial Finance I 3 credits
- 240* 3 credits
Economics BS: Finance Specialization

Major Requirements: 55-59 credits

ECO 111 Introduction to Microeconomics 4 credits
ECO 112 Introduction to Macroeconomics 4 credits
ECO 210 Intermediate Microeconomics 4 credits
ECO 212 Intermediate Macroeconomics 4 credits
ECO/MGT 230 Managerial Statistics 4 credits
ECO 323 Introduction to Econometrics 4 credits
ECO/FNC 214 Money and Banking 4 credits

Computer Proficiency Requirement: 0-4 credits
In addition, Economics majors must demonstrate computer proficiency in one of the following ways:
- Successful completion of any course in computer science
- Successful completion of BUS 150 Essential Software Tools for Business
- Demonstration of proficiency with computers in a manner satisfactory to the Economics faculty

Finance Specialization: 27 credits

Part I: 8 credits
8 Credits in 300-level economics courses chosen from the following 5 courses:
ECO/FNC 315 Monetary Theory and Policy 4 credits
ECO 336 Industrial Organization 4 credits
ECO/FNC 360 Investment Analysis 4 credits
ECO 370/FNC 300 International Finance 4 credits
ECO 387 Managerial Economics 4 credits

Part II: 19 credits
ACC 114 Accounting I 4 credits
ACC 121 Accounting II 4 credits
ECO/FNC 240 Managerial Finance I 3 credits
ECO/FNC 345 Managerial Finance II 4 credits
FNC 350 Advanced Corporate Finance 4 credits

NOTE: ECO/FNC 213 is a recommended elective.

Electives: 19-37 credits
Total Credits Required: 120

Economics Courses

ECO 101 Introduction to Economics
3 hours; 3 credits
This course examines the principles of economics in the context of the operation of the United States economy. Both microeconomic theory (behavior of firms and households) and macroeconomic theory (total output, inflation, employment and unemployment, economic growth) will be introduced as well economic approaches to social problems. (social science) (FISR)
Prerequisite: MTH 020 or an appropriate score on the CUNY Mathematics Assessment Test

ECO 111 Introduction to Microeconomics
4 hours; 4 credits
An introduction to microeconomic concepts and analysis. Topics include: theory of the consumer, theory of the firm, choice under uncertainty, inter-temporal decisions, perfect competition, monopoly and monopsony, monopolistic competition, oligopoly and game theory, markets with imperfect information, and externalities and public goods. Application of analytical tools to current economic problems.
Pre or corequisite: MTH 030 or an appropriate score on the CUNY Mathematics Assessment Test

ECO 112 Introduction to Macroeconomics
4 hours; 4 credits
An introduction to basic macroeconomic concepts such as national income accounting, levels of output and employment, government spending, taxation, debt, money supply, inflation, interest rates, exchange rates and trade balance. The course will provide a unified framework to address these issues and to study the impact of different fiscal and monetary policies on the aggregate behavior of individuals, firms and government. These analytical tools will be used to understand the recent experience of the United States and other countries and to address how current policy initiatives affect their macroeconomic performance.
Pre or corequisite: MTH 030 or an appropriate score on the CUNY Mathematics Assessment Test

Minor in Economics

Minor Requirements: 24 credits

ECO 111 Introduction to Microeconomics 4 credits
ECO 112 Introduction to Macroeconomics 4 credits
ECO 210 Intermediate Microeconomics 4 credits
ECO 212 Intermediate Macroeconomics 4 credits
ECO 241 Advanced Corporate Finance 4 credits

Liberal Arts and Sciences Requirement:
The New York State Department of Education requires that 2/3 of the credit hours in a Bachelor of Science (BS) program be liberal arts and sciences credits. For further information please refer to the Liberal Arts and Science Requirement section of the catalog.

Honors
To graduate with honors in Economics a student must have a 3.5 grade point average in economics courses and must complete a thesis or project determined by the student and his or her faculty sponsor, and the course POL/ECO/PHL 490 Senior Seminar in Political Science, Economics, and Philosophy.

Minor in Economics

Minor Requirements: 24 credits

ECO 111 Introduction to Microeconomics 4 credits
ECO 112 Introduction to Macroeconomics 4 credits
ECO 210 Intermediate Microeconomics 4 credits
ECO 212 Intermediate Macroeconomics 4 credits
ECO 241 Advanced Corporate Finance 4 credits

Electives: 19-37 credits
Total Credits Required: 120

Economics Courses

ECO 101 Introduction to Economics
3 hours; 3 credits
This course examines the principles of economics in the context of the operation of the United States economy. Both microeconomic theory (behavior of firms and households) and macroeconomic theory (total output, inflation, employment and unemployment, economic growth) will be introduced as well economic approaches to social problems. (social science) (FISR)
Prerequisite: MTH 020 or an appropriate score on the CUNY Mathematics Assessment Test

ECO 111 Introduction to Microeconomics
4 hours; 4 credits
An introduction to microeconomic concepts and analysis. Topics include: theory of the consumer, theory of the firm, choice under uncertainty, inter-temporal decisions, perfect competition, monopoly and monopsony, monopolistic competition, oligopoly and game theory, markets with imperfect information, and externalities and public goods. Application of analytical tools to current economic problems.
Pre or corequisite: MTH 030 or an appropriate score on the CUNY Mathematics Assessment Test

ECO 112 Introduction to Macroeconomics
4 hours; 4 credits
An introduction to basic macroeconomic concepts such as national income accounting, levels of output and employment, government spending, taxation, debt, money supply, inflation, interest rates, exchange rates and trade balance. The course will provide a unified framework to address these issues and to study the impact of different fiscal and monetary policies on the aggregate behavior of individuals, firms and government. These analytical tools will be used to understand the recent experience of the United States and other countries and to address how current policy initiatives affect their macroeconomic performance.
Pre or corequisite: MTH 030 or an appropriate score on the CUNY Mathematics Assessment Test
A rigorous examination of the optimizing behavior of individual consumers and firms, the coordination of individual decisions through markets, and the evaluation of market outcomes. Emphasis is placed on deviations from perfect competition due to market power, strategic interdependence, externality, asymmetric information, imperfect rationality, and on applications of microeconomic theory to policy debates.

Prerequisites: ECO 111 and (MTH 121 or MTH 123)

ECO 212 Intermediate Macroeconomics
4 hours; 4 credits
Aggregate economic analysis from the classical and the modern post-Keynesian point of view. The major objective is an understanding of the factors that determine the levels of national income, output, employment, overall prices, and rates of economic growth. The roles of consumption, investment, and alternative governmental policies are demonstrated. Measurement of national income and output is also studied.

Prerequisites: ECO 112 and (MTH 121 or MTH 123)

ECO 213 Money and Capital Markets
(Also FNC 213)
4 hours; 4 credits
The course examines financial markets from the standpoint of investors and users. Markets studied are those for money market instruments, T-bill futures, Ginnie Mae futures, T-bond futures, stocks, stock options, bonds, mortgages, and Eurocurrencies. Federal Reserve operations, U.S. Treasury operations, and international financing are considered with regard to their effects on financial markets.

Prerequisites: Successful completion of CUNY Assessment Test in Reading and the CUNY Assessment Test in Writing or equivalent and ECO 101 or ECO 111 and ECO 112

ECO 214 Money and Banking
(Also FNC 214)
4 hours; 4 credits
An analytical, institutional, and historical examination of the monetary system of the United States with particular attention paid to the operation of commercial banks, and to the powers, purposes, and performance of the Federal Reserve System. The influence of the quantity of money on the level of economic activity will be considered.

Prerequisites: Successful completion of the CUNY Assessment Test in Reading and the CUNY Assessment Test in Writing and ECO 101 or ECO 111 and ECO 112

ECO 230 Introduction to Economic and Managerial Statistics
(Also MGT 230)
4 hours; 4 credits
Development and application of modern statistical methods, including such elements of descriptive statistics and statistical inference as correlation and regression analysis, probability theory, sampling procedures, normal distribution and binomial distribution, estimation, and testing of hypotheses.

Prerequisites: Successful completion of the CUNY Assessment Test in Writing and the CUNY Assessment Test in Reading, and (ECO 101 or ECO 111 or ECO 112) and (MTH 121 or MTH 123 or higher ) and (BUS 150 or BUS 215 or BUS 250 or CSC 102 or CSC 126)

ECO 231 Quantitative Analysis of Business and Economic Problems
(Also BUS 230)
3 hours; 3 credits
The application of mathematical techniques to business and economic problems. An introduction to operations research, linear programming, PERT, and related materials.

Prerequisites: MGT 110 and MGT 230

ECO 240 Managerial Finance I
(Also FNC 240)
3 hours; 3 credits
Examination of securities markets, analysis of methods of long-term financing, financial ratio analysis, budgeting, current asset management, present value concepts, capital budgeting, cost of capital, and dividend policy.

Prerequisite: ECO 101 or (ECO 111 and ECO 112)
Pre- or corequisites: ACC 121 and MTH 121 or higher

ECO 250 International Economics
4 hours; 4 credits
A study of the effects and causes of trade between nations. Tariffs and non-tariff barriers to free trade will be analyzed, as will the effect of common markets on international trade. Historical patterns of international trade, and the theory and evidences of imperialism will be considered. The course will include an introduction to the financial aspects of international trade. (social science) (cont. wld.)

Prerequisites: ECO 101 or (ECO 111 and ECO 112), ENG 151, COR 100

ECO 251 International Political Economy
(Also POL 251)
4 hours; 4 credits
This course examines the relationships among nation states, corporations, and key international trade and financial organizations in today's global environment. It also examines how globalization and world politics affect distribution of economic wealth and, in turn, how economic growth/changes affect world politics and the global order. (social science) (cont. wld.) (p&d) NOTE: This course satisfies the College Option.

Prerequisites: At least one political science or economics course, ENG 151, COR 100

ECO 252 Economic Geography
(Also GEG 252)
4 hours; 4 credits
Examination of how geographic factors influencing economic activity, and culture, technology, resources, location, and labor intersect to produce different economic environments, and how globalization and local conditions interact. (social science) (cont. wld.) NOTE: This course satisfies the College Option.

Prerequisites: ENG 151, COR 100

ECO 253 United States Economic History
(Also HST 253)
4 hours; 4 credits
A survey of the development of the U.S. economy and the factors influencing the pace of long-run economic growth. Key changes in technology, business organization, financial markets, and legal and government policy that have influenced the course of U.S. economic development are examined. For history majors and minors, this is designated as a United States history course.

Prerequisites: ENG 111, COR 100 and (ECO 101 or ECO 111 or ECO 112) any college-level history course

**ECO 256 Analysis of Underdeveloped Areas**
4 hours; 4 credits
An examination of economic problems confronting underdeveloped countries and the exploration of possible solutions. Historical perspectives of economic development and general theories of retardation followed by specific policy issues facing economic planners. Problem areas to be discussed include social capital, agriculture, industry, manpower utilization, fiscal policy, foreign aid, and the interaction of political, social, and cultural factors as they affect economic development. (social science) (p&d) NOTE: This course satisfies the College Option.
Prerequisites: ECO 101 or (ECO 111 and ECO 112), ENG 111, COR 100

**ECO 257 The Japanese Economy**
4 hours; 4 credits
This course explores factors that influence the contemporary economy of Japan: historical components, including the Meiji Restoration and the expansion of the Japanese empire, World War II and the post-war Allied occupation, more recent components, principles of Japanese business, management style, government-business relations, education, labor relations, trade restrictions and agreements, and influence on the U.S. economy, and Japanese goals. (social science) (p&d) NOTE: This course satisfies the College Option.
Prerequisites: ECO 101 or (ECO 111 and ECO 112), ENG 111, COR 100

**ECO 261 Labor Relations**
(Also MGT 261)
4 hours; 4 credits
History, theories, structure, and objectives of trade unionism. Grievance procedures, collective bargaining, union power, strikes and other weapons, mediation and arbitration. Government regulation of the labor sector. Students will participate in the re-enactment of actual arbitration cases.

**ECO 285 Economics for Engineers**
4 hours; 4 credits
An accelerated calculus-based course. Introduction to contemporary macroeconomic and microeconomic theory. Topics include output, unemployment, inflation, functioning of markets, government policy, and productivity. The course concludes with engineering applications. (social science) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111, COR 100; (MTH 230 or MTH 231 or MTH 235), (CSC 126 or CSC 270 or other evidence of equivalent proficiency with computers)

**ECO 291 Political Economy of War and Peace**
(Also POL 268)
4 hours; 4 credits
An interdisciplinary introduction to political and economic decision making as it concerns national defense spending, focusing on such issues as the “military-industrial complex,” the draft, a volunteer army, the question of national priorities, the impact of war and peace on such economic problems as inflation, recession, employment, growth, and the federal budget.
Prerequisite: ENG 111

**ECO 296 History of American Business**
4 hours; 4 credits
The history of business in American life; theories of business evolution; the role of business in shaping American social institutions and values; the effect of the American social, political, and economic environment upon business thought and practice.
Prerequisite: ENG 111

**ECO 315 Monetary Theory and Policy**
(Also FNC 315)
4 hours; 4 credits
Theoretical and applied problems of monetary policy. Emphasis is placed on contemporary developments. Current controversies concerning the use of monetary policy, relationship to fiscal policy, and impact on economic activity.
Prerequisites: ECO 212 and either ECO/FNC 213 or ECO/FNC 214

**ECO 318 Economic and Business Forecasting**
4 hours; 4 credits
Forecasting the nation's economy and economic trends over the short term and the longer term. Also forecasts of business trends and sales of individual businesses will be considered within the economic framework.
Prerequisites: ECO 111, ECO 112, ECO/MGT 230

**ECO 323 Introduction to Econometrics**
(Also MGT 324)
4 hours; 4 credits
This course will examine the relationship between economic theory and statistical measurement. It will deal mainly with the general linear regression and correlation model. A selected number of other statistical tools will also be treated. Emphasis will be on the understanding of the concepts rather than on their mathematical derivation.
Prerequisites: ECO 111, ECO 112, ECO/MGT 230

**ECO 326 Introduction to Mathematical Economics**
4 hours; 4 credits
The use of mathematical analysis in solving economic problems. Methods of calculus, matrix algebra, deductive logic, and elementary set theory will be developed and employed to understand the equilibrium of the market, firm, and consumer. The uses and misuses of the mathematical method in economics will also be discussed.
Prerequisites: ECO 111, ECO 112, ECO 210, ECO 212 and (MTH 121 or MTH 123 or the equivalent)
ECO 327    Intermediate Mathematical Economics
4 hours; 4 credits
A continuation of ECO 326. Differential and difference equations, elementary dynamic models and stability of equilibrium, rigorous development of modern microeconomic and macroeconomic theory using the mathematical approach.
Prerequisite: ECO 326

ECO 330    Public Finance
4 hours; 4 credits
Analysis of the causes and effects of government expenditure and taxation in the United States economy. Some treatment of determination of optimal types and amounts of government expenditure on goods and services, but greater emphasis on various types of taxation examined for equity, efficiency, role in fiscal policy, and effect on productive effort. Some attention to standards of income distribution and to inter-governmental fiscal relationships in the United States.
Prerequisite: ECO 210

ECO 331    Law and Economics
(Also POL 331)
4 hours; 4 credits
Fundamental concepts of economics, especially efficiency, will be utilized to explain and evaluate legal rulings. The tools of economics will be employed to analyze not only tort, contract, and property principles, but also marriage and divorce law, criminal law, and constitutional issues such as abortion, the death penalty, and racial and gender-based discrimination.
Prerequisites: ECO 101 or ECO 111 or ECO 112; BUS 160 or any two POL courses

ECO 332    Health Economics
4 hours; 4 credits
The demand and supply of medical care; the dynamics of competition in the health care industry, the role of government in medical care; general understanding of health care institutions, including Medicare, Medicaid, managed care, hospital and physician behavior, and pharmaceutical markets; and healthcare reform.
Prerequisites: ENG 111 and (ECO 101 or ECO 111) and sophomore standing

ECO 333    Economics and Philosophy
(Also PHL 333)
4 hours; 4 credits
This course will cover topics that overlap in the fields of economics and philosophy. It will enlighten economics majors about the philosophical underpinnings of Economics and introduce Philosophy majors to the more "thoughtful" aspects of economics. Topics discussed will include: rational choice and ethics; social welfare; justice, efficiency, and equity; social choice; and game theory.
Prerequisites: ENG 111 and any introductory-level economics or philosophy course

ECO 335    Behavioral Economics
4 hours; 4 credits
This course surveys the most salient dimensions known to the discipline of Behavioral Economics. It compares the traditional behavioral approaches in economics with those developed in recent times. Students in this course are introduced to various human irrationalities, their prevalence, causes, and economic consequences. Behavioral biases discussed in this class include sunk-cost fallacy, present-biased preferences, status quo bias, self-serving bias, gambler's fallacy, inequity aversion, reciprocity, endowment effect, disposition effect, greed and fear, and herd behavior. The course also encompasses the important implications of the above mentioned biases on several economic facets of social life such as saving and investment for retirement, insurance, education, and race and gender wage discrimination.
Prerequisites: ENG 151, ECO 111 and ECO 230/MGT 230

ECO 336    Industrial Organization
4 hours; 4 credits
The rise and development of industrial combinations and their effect on the structure and performance of the United States economy; models of monopoly and oligopoly pricing; analysis of the power of monopoly and oligopoly in relation to efficient allocation of resources, technological growth, inflation, and political influence; causes and effects of mergers; government policies aimed at the preservation of competition in industrial markets; and regulation of trade practices.
Prerequisite: ECO 210 and ECO 230

ECO 338    Government and Business
4 hours; 4 credits
The relationship between government and business in the United States will be investigated under three general headings: antitrust policy, regulation, and the promotion of specific business interests. Theoretical issues, historical developments, political and economic interrelationships, legislation and its judicial and quasijudicial interpretation relevant to each area will be explored.
Prerequisite: ECO 210

ECO 345    Managerial Finance II
(Also FNC 345)
4 hours; 4 credits
Working capital management, current asset management, sources of short-term financing, financial structure and use of leverage, valuation and rates of return, dividend policy and internal financing, mergers and acquisitions, and liquidation; includes computer lab for solving financial management problems.
Prerequisites: ECO/FNC 240 and MGT/ECO 230

ECO 352    Comparative Economic Systems
4 hours; 4 credits
An analysis of economic systems through formulation of abstract economic models and an analysis of actual economic societies, including comparison of capitalism and socialism.
Prerequisites: ECO 101 or (ECO 111 or ECO 112) and at least two other courses in the social sciences

ECO 356    Economic Growth and Development
4 hours; 4 credits
This course studies cross-country development patterns using an analytical framework grounded in economic theory. The topics covered include population growth, technological progress and its international diffusion, globalization, income inequality, natural resource misallocation, government policy, political institutions, corruption, and their connection with economic growth and development. A wealth of economic data and case studies from developed and developing countries are presented and analyzed using theoretical models of economic development.

Prerequisites: (ECO 101 or ECO 111), ECO 112, ENG 151

ECO 360 Investment Analysis
(Also FNC 360)
4 hours; 4 credits
Survey of the principles governing the investment of individual and institutional capital funds: the theory and mechanics of investments, general analysis and valuation procedures including quantitative and qualitative tests for judging security values, valuation to fixed income securities and common stocks. Introduction to the analysis of industrial, public utility, and governmental securities. Management of an individual investor's portfolio.

Prerequisites: ECO/FNC 345 and FNC/ECO 213 or FNC/ECO 214

ECO 361 Labor Economics
4 hours; 4 credits
A critical examination of theories of wage determination; factors responsible for wage differentials; the effect of unionism upon wages; empirical trends in wage differentials and average wage levels; wage push inflation, unemployment, minimum wage laws, and automation; human capital, educational expenditures, and manpower analysis.

Prerequisites: ECO 111, ENG 151 and ECO 230/MGT 230

ECO 370 International Finance
(Also FNC 300)
4 hours; 4 credits
The financial interrelationship between countries. Analysis of balance of payments, fixed and flexible exchange rates exchange rates, the role of international reserves. Historical trends in payments and exchange; implications of the rise of the multinational corporation; current international policy problems facing the United States, other developed nations, and underdeveloped nations, and current institutional changes designed to meet them.

Prerequisite: FNC/ECO 240

ECO 376 The Nonprofit Institution
4 hours; 4 credits
The finances, management, and decision making of such nonprofit institutions as the university, school systems, governmental departments, hospitals, and foundations. The effects of the nonprofit institution upon society. Evaluation of the achievements of nonprofit institutions.

Prerequisite: ECO 101 or ECO 111 and ECO 112

ECO 385 Engineering Economics
4 hours; 4 credits
Applications of economic theory and operations analysis in the formulation of business policies and decisions. Marginal and incremental analysis of business opportunities, demand analysis and forecasting, production and price setting, capital budgeting and investment analysis, and regulation of business. Introduction to the techniques and applications of econometrics and linear programming. Not open to students who have successfully completed ECO 387.

Prerequisite: MTH 121 or MTH 123 or equivalent

ECO 387 Managerial Economics
4 hours; 4 credits
Applications of economic theory and operations analysis in the formulation of business policies and decisions. The course will include marginal and incremental analysis of business opportunities, demand analysis and forecasting, production and price setting, and regulation of business. Introduction to the techniques and applications of econometrics and linear programming will also be included. Topics will be studied through consideration of actual business cases and problems. Not open to students who have successfully completed ECO 385.

Prerequisites: MTH 121 or 123 or equivalent and ECO 210

ECO 388 Economics of Natural Resources and the Environment
4 hours; 4 credits
An economic approach to the problems of depleting natural resources and environmental pollution. Intertemporal allocation of resources, recycling, renewable resources, energy, pollution, acid rain, global warming, ozone depletion. The role of markets and the role of government.

Prerequisite: ECO 210

ECO 389 Economics and Technology
4 hours; 4 credits
The economics of research and development in the single firm and the economy as a whole. Implications for society will be explored. Topics will include: determinants of research and development expenditures by the firm, selection and management of research and development projects, technological forecasting, the role of government and nonprofit organizations in research and development, the economics of the patent system, antitrust legislation, and technological innovation.

Prerequisite: ECO 101 or ECO 111 or ECO 112

ECO 390 History of Economic Thought
4 hours; 4 credits
The development of economic thought from antiquity to modern times. Emphasis on the contrast and similarities between such divergent schools of thought as mercantilism, the physiocratic school, the classical school, the socialist school, the historical school, and the neoclassical school. Prominent thinkers such as Aristotle, Aquinas, Mun, Hume, Quesnay, Adam Smith, Ricardo, Malthus, Mill, Cournot, von Thunen, Marx, Menger, Jevons, Walras, Marshall, Keynes, Samuelson, Schumpeter, and von Hayek will be discussed, as will the periodic resurgence of various themes and the links between economic thought and economic history.

Prerequisites: ECO 101 or ECO 111 or ECO 112
ECO 392  Urban Economics
4 hours; 4 credits
Economic factors in the emergence of urban centers and historical changes in their economic functions. Determinants of the size and location of cities and the occupational characteristics of the urban labor force. Analysis of the proper economic scope of local government and the financing of its expenditures. Allocating and pricing public services. Aspects of urban renewal and study of the urban ghetto.
Prerequisites: ECO 210 and ECO 230

ECO 395  Foundations of Modern Capitalism
4 hours; 4 credits
An examination of the historical and intellectual origins of capitalist society, the role of capitalism in the growth and development of modern industrial society, an evaluation of the future of capitalism.
Prerequisites: ECO 101 or ECO 111 or ECO 112 and at least two other courses in the social sciences

ECO 410  Seminar in Economic Analysis
4 hours; 4 credits
Selected topics in economic theory including production theory, capital theory, welfare economics, growth theory, and investment in human capital. Students prepare detailed presentations and analyses of classic works for discussion and evaluation.
Prerequisites: ECO 210, ECO 212, ECO 323

ECO 490  Senior Seminar in Political Science, Economics, Philosophy, and Geography
(Also POL 490/PHL 490/GEG 490)
4 hours; 4 credits
Selected topics in which ideas and approaches from economics, political science, philosophy, and geography either mesh or collide will be explored. Required of all students expecting to graduate with honors in Political Science, Economics, Philosophy, or Geography, but not limited to these students.
Prerequisites: Senior standing and completion of at least 16 credits in intermediate and advanced social science courses and permission of the instructor

Education

School of Education
Dean, Kenneth Gold, BA, MA, Phd
Department of Educational Studies
Chairperson and Associate Professor Ruth Powers Silverberg
Department of Curriculum and Instruction
Chairperson and Associate Professor Margaret Berci
(See the Graduate Catalog for information on master’s degree programs.)

The College of Staten Island offers a full selection of programs to prepare students for certification as teachers at all levels. Students at the College do not major in Education; they major in academic subjects and complete a sequence of courses in teacher education that provides the academic work necessary for a recommendation for initial certification by the State of New York. Students seeking initial certification from the State Education Department of New York must pass the appropriate teacher certification examinations.

Education courses are identified and the descriptions arranged alphabetically according to the following designations:

EDA - Supervision and Administration
EDC - Early Childhood
EDD - General Education
EDE - Childhood Education (Elementary Education)
EDL - Teaching of English to Speakers of Other Languages (TESOL)
EDM - Middle School Education
EDP - Special Education
EDS - Adolescence Education (Secondary Education)

(Graduate courses are described in the Graduate Catalog)

Fieldwork
A New York State mandated minimum of 100 hours of fieldwork is required before student teaching.

Academic Major
Students in the Early Childhood Education program and in the Childhood Education program must complete the requirements for the major in Science, Letters, and Society leading to the BA degree. Completion of all degree requirements for the Science, Letters, and Society major with the Early Childhood Education sequence may require at least 124 credits.

General Criteria for Entry into the Education Sequences
Students must have a minimum cumulative GPA of 3.0 or above to enroll in introductory (foundations) education courses (EDC 105, EDC 108, EDC 215, EDC 200, EDC 260, EDS 201, EDS 202). Students whose GPAs are below 3.0 but above 2.9 may appeal for special permission to enroll in an introductory foundations course. All students apply for admission to an educational sequence while enrolled in one of the 200-level foundations courses listed above. Students who are denied admission to the an educational sequence may appeal the decision. Instructions for the appeal processes, including deadlines, are available in the School of Education office located in Building 3S, Room 208.

Criteria for Continuing in the Educational Sequences
Students must develop and maintain a program portfolio as outlined in the program handbook. Students must earn a C+ or above in each education class. Students must maintain a minimum cumulative GPA of 3.0 throughout the program.

Language Requirement
Beginning in September 1993, all applicants for initial teacher education certification in early childhood, childhood, and adolescence education must demonstrate proficiency in a language other than English in one of two ways: by passing a CSI World Languages and Literatures course at the 114 level or by passing the Department of World Languages and Literatures proficiency examination at that same level. For information on
the department proficiency examination, please contact the coordinator of the World Languages and Literatures Media Center.

**Liberal Arts and Sciences Requirement**
Because most required education courses are non-liberal arts and sciences, students in education usually do not have room for non-liberal arts and sciences courses beyond those required for the education sequence. Students who take other non-liberal arts and sciences courses may find that they need to take more than 120 credits to complete their degree. Education courses that fulfill the Liberal Arts and Sciences requirement are marked (LA&S).

Teacher certification is governed by the New York State Board of Regents and the New York State Education Departments. These requirements are subject to change. Students are advised to contact the Department of Education for the latest degree requirements.

**Early Childhood Education (Birth-2)**
This program is designed for students wishing to specialize in the education of children from birth to second grade. It provides the academic course content necessary for New York State certification at the early childhood level.

**Academic Major: 36-40 credits**

**Education Sequence: 36 credits**
Students wishing to be recommended by the College for initial certification must successfully complete the following sequence of education courses, as well as the Science, Letters, and Society major. Students are expected to begin the Early Childhood sequence in the spring semester of the first year of college. The courses are tightly sequenced with prerequisites and/or corequisites and students move through as a cohort. The sequence must be started by the beginning of the sophomore year. For admission and continuation in the early childhood education sequence and all early childhood education courses students must have a minimum cumulative GPA of 3.0.

**Fieldwork in Early Childhood**
This is a field-intensive program. Students' time in the field typically occurs in addition to the regularly scheduled class times of a course. The amount of time and the nature of the field experience are in some cases assigned to specific courses and in others linked to all courses taken as a corequisite(s) in a given semester. Students who are granted approval by the Program Committee to deviate from this sequencing will have their field requirements adjusted by their early childhood education faculty advisor in conjunction with the Director Fieldwork.

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<td>EDP 220</td>
<td>Early Childhood Curriculum</td>
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<td>EDC 310</td>
<td>Reading and Writing in the Primary Grades</td>
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<td>EDC 316</td>
<td>Social Contexts of Early Childhood Education</td>
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<td>EDC 332</td>
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<td>EDC 340</td>
<td>Early Childhood Mathematics Education</td>
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<td>EDC 342</td>
<td>Teaching Science as Inquiry in Early Childhood</td>
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<td>EDC 360</td>
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<td>EDC 440</td>
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<tr>
<td>EDC 441</td>
<td>Student Teaching and Seminar in Early Childhood Education II</td>
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Academic Major
Students must complete the requirements of a major in the field in which they plan to teach. This sequence provides the academic course content necessary for certification as a teacher at the adolescence level in the fields of biology, chemistry, earth science, English, foreign language, history, physics, and mathematics disciplines.

Students planning to teach social studies majors in History, and they complete at least 50 credits in the social sciences, including at least four credits in geography, at least four credits in U.S. history, and at least four credits in non-U.S. history.

Students planning to teach Mathematics must include, within the set of advanced courses required by the mathematics major, one or more upper-level mathematics courses covering (1) Euclidean and non-Euclidean geometry and (2) history of mathematics. This requirement may be met by taking MTH 329 Geometry, and MTH 306 History of Mathematical Thought.

Adolescence Education Sequence: 24 credits
Students wishing to be recommended by the College for certification must successfully complete the following sequence of education courses, as well as their academic major. To complete the sequence in two years it must be begun by the beginning of the junior year. For admission and continuation in the adolescence education sequence and all adolescence education courses students must have a minimum cumulative GPA of 3.0.

EDS 201 Social Foundations of Secondary Education
4 credits
EDS 202 Psychological Foundations of Secondary Education
4 credits
One of the following four-credit courses
EDS 315 The Secondary School Curriculum in the Social Studies
or
EDS 316 The Secondary School Curriculum in English
or
EDS 317 The Secondary School Curriculum in Mathematics
or
EDS 318 The Secondary School Curriculum in Science
or
EDS 319 The Secondary School Curriculum in Foreign Language
One of the following four-credit courses
EDS 301 The Pedagogy of Secondary School in the Social Studies
or
EDS 302 The Pedagogy of Secondary School in English
or
EDS 303 The Pedagogy of Secondary School in Mathematics
or
EDS 304 The Pedagogy of Secondary School in Science
or
EDS 305 The Pedagogy of Secondary School in Foreign Language
and
EDS 400 Student Teaching in Secondary Education
6 credits

EDS 401 Reflection and Analysis in Student Teaching in Secondary Education
2 credits

Special Education
The College of Staten Island does not offer an undergraduate program in special education. Students seeking certification in special education are advised to pursue the undergraduate sequence in Childhood Education and the master's program in Special Education.

Education Courses
For graduate courses in education see the Graduate Catalog.
Note: Student teaching courses are graded P or F.

EDC - Early Childhood

EDC 105 Introductory Seminar on Infants and Toddlers in Early Childhood Education
1 credit
A seminar to provide teacher candidates’ opportunities to observe early childhood education settings for young children (especially focusing on infant and toddlers), learning about young children’s development and learning, appropriate environment, and developmentally appropriate practice. The one-week seminar is held in two different early childhood sites for five full days.
Prerequisites: GPA of 3.0
Pre or corequisite: ENG 111

EDC 108 Introductory to Early Childhood Education
3 credits; 3 hours
An introduction to Early Childhood curriculum patterns, activities, and materials as related to young children’s growth, development, and learning. Deals with a study of early childhood programs, curriculum and practice, including play-based learning, early childhood environment, and application of developmental theories for learning and teaching young children. Discussions of contemporary issues are placed in the context of the history of early childhood curriculum and curriculum theory. This course includes 20 hours of fieldwork.
Pre or corequisites: EDC 105
Pre or corequisite: ENG 111

EDC 215 Psychological Foundations of Early Childhood Education
3 hours; 3 credits
An examination of the developing child, focusing on the period from birth through age eight, with an introduction to children with special needs. Major developmental theories are critically examined and are illuminated through students’ field experiences with children in diverse and inclusive settings. Recent research on child abuse and abduction is examined within the context of the teacher’s responsibilities. This course includes 15 hours of fieldwork prior to student teaching. (LA&S)
Prerequisites: ENG 151, PSY 100 and a GPA of 3.0

EDC 217 Affective Development of the Child
3 hours; 3 credits
An examination of the relationship between the infant and the primary caretaker, and its importance in personality development. Influences on the primary relation, broadening of affectional ties; comparison of child-rearing across and within cultures. Students learn to use a variety of observational approaches and recording techniques to increase their understanding of children who are developing normally and children with disturbances in development. School and community partnerships are explored for their emotional impact on children. Diverse infant and toddler programs are studied through 20 hours of fieldwork.

Prerequisites: EDC 215, EDC 216, and a GPA of 3.0 or above

EDC 218 Language and Literacy in the Early Childhood Curriculum
3 hours; 3 credits
An examination of early communication and spoken and written language in the early childhood curriculum (infancy through prekindergarten), by providing (1) an overview of how very young learners communicate and learn language, including English language learners, (2) an inquiry-based focus on practices and curricula that promote communication, talk, and emergent literacy in educational settings for children with a range of abilities, and (3) a sociocultural framework for teaching in the diverse contexts in which teachers and children can work toward social justice. This course includes one day of field work per week.
Prerequisites: EDC 108, EDC 215 and a GPA of 3.0 or above

EDC 310 Reading and Writing in the Primary Grades
3 hours; 3 credits
An examination of early communication and spoken and written language in the early childhood curriculum (infancy through prekindergarten), by providing (1) an overview of how very young learners communicate and learn language, including English language learners, (2) an inquiry-based focus on practices and curricula that promote communication, talk, and emergent literacy in educational settings for children with a range of abilities, and (3) a sociocultural framework for teaching in the diverse contexts in which teachers and children can work toward social justice. This course includes one day of field work per week. The course examines the theory, research, and practice of teaching reading and writing in primary (K-2) classrooms. Students (1) are aware of how children develop as listeners, speakers, readers, and writers—cognitively, socially, linguistically, culturally; (2) become familiar with a variety of instructional practices that support young literacy learners; and (3) develop a working knowledge of assessment-driven literacy instruction. In addition, several critical topics and themes are foundational to the course: working closely with families; valuing cultural diversity; exploring genre and author studies; and, developing literacy curricula for democratic classrooms. A fieldwork component of one half day per week is included. NOTE: This course has a material fee. 
Prerequisites: EDC 218 and a GPA of 3.0 or above Corequisite: EDP 220

EDC 316 Social Contexts of Early Childhood Education
3 hours; 3 credits
A required multidisciplinary course for prospective early childhood teachers. Perspectives from such academic disciplines as philosophy, history, sociology, anthropology, political science, and economics are brought to bear on early childhood education in its relationships with contemporary society and with later education. The major purpose of this course is to bring the student to an understanding, through readings and reflection on the student teaching experience, of how values, attitudes, and structures in society as a whole influence the education of young children. (LA&S)
Prerequisites: EDC 340, EDC 342 and a GPA of 3.0 Corequisite: EDC 360 and EDC 440

EDC 332 Creative Arts in an Integrated Early Childhood Curriculum
3 hours; 3 credits
Learn how to integrate creative arts - music, rhythmic movement, dramatic play, and visual arts in an early childhood curriculum. Students learn to select materials and develop creative activities that are developmentally appropriate for the needs of young children in pre-K and primary grades. A variety of media and computer technologies are explored to determine how they can enhance musical experience. This course includes fieldwork practices in early childhood education setting(s). Field experience in this course is linked with student teaching. NOTE: This course has a material fee. 
Prerequisites: EDC 440 and a GPA of 3.0 or above Corequisite: EDC 441

EDC 340 Early Childhood Mathematics Education
3 hours; 3 credits
Focus on enabling early childhood teacher candidates to gain an understanding of a developmentally appropriate approach to design and implement mathematical concepts in an inclusive setting which considers the varying abilities of young students, the integration of instructional technology into the curriculum, and multiple approaches to the assessment of learning. In this course, preservice teachers will explore the importance of play as an essential context for children’s mathematical learning experiences. The role of context, culture, and language will also be explored as they relate to the development of Mathematical concepts, strategies, and emergent models in the early years. For this course and its corequisite, students will spend a total of two half-days per week in the field. OTE: This course has a material fee. 
Prerequisites: EDC 310, MTH/SLS 217; and a GPA of 3.0 or above Corequisite: EDC 342

EDC 342 Teaching Science As Inquiry in Early Childhood
3 credits; 3 hours
Teacher candidates will learn how to plan and implement meaningful and developmentally appropriate thematic investigations that educate and challenge young children. Teacher candidates will be guided in planning and implementing a curriculum and developing experiential en-
environments that will actively engage children so that they ask questions, investigate, pose challenges, solve problems, make discoveries, as well as enhance and extend their understanding of scientific concepts. Teacher candidates will also learn a range of strategies used by children with special needs. Informal and formal assessment tools will be presented as well as classroom management strategies for whole-class and small-group instruction. The course will also examine educational technology in early childhood science instruction for its usefulness and developmental flexibility. NOTE: Students will spend a total of two half-days per week in the field.

Prerequisite: EDC 310; SLS 261; and GPA of 3.0 or above
Corequisite: EDC 340

EDC 350 Fieldwork in Preschool Classrooms 2 credits
This field-based course introduces students to preschool classrooms in diverse and inclusive settings. This course connects practice with prior education coursework and is especially related to the content of EDC 218. In addition, students are given opportunities both to observe and to practice long- and short-term curriculum planning that reflects specific provisioning for children with special needs and linguistically diverse children. Students also practice a variety of observational approaches and recording techniques in order to assess the development of individual children. Students are observed interacting with small and larger groupings of children. Alcohol, tobacco, and drug abuse, and other dangers to children are discussed within the context of pre-natal and infant development with specific attention paid to the teachers' role and responsibilities. Students will be in attendance at the assigned school three mornings a week for a full semester, which accounts for 150 hours of fieldwork prior to student teaching. Graded Pass (P) or Fail (F).

Prerequisites: EDC 215, EDC 216, and a GPA of 3.0 or above
Pre or corequisite: EDC 217, EDC 218

EDC 360 Social Studies in Early Childhood Education 3 hours; 3 credits
The Social Studies for the early childhood curriculum includes the developmentally appropriate application for all the National, State and NAEYC standards to its core curriculum. A solid background in the Social Studies for the young learner will provide a solid foundation for later education in civic responsibility, decision making and character development. Therefore, the main focus of this course is to expose teacher candidates to a wide range of approaches to connect the Social Studies content, teaching and learning to foster development of knowledge, skills and dispositions of the Social Studies, in early childhood students. Formal and informal assessment tools, thematic planning, as well as classroom management strategies for whole-class and small group interaction are included. Field experience in this course is linked with student teaching.

Prerequisites: EDC 310, EDC 340; and a GPA of 3.0 or above
Corequisite: EDC 440

EDC 402 Reflection and Analysis in Student Teaching (Early Childhood) 2 hours; 2 credits
This course is designed to supplement and enhance student teaching responsibilities occurring in EDC 440. Candidates will have an opportunity to synthesize information learned throughout their program and produce and deliver meaningful, effective lessons addressing diverse learners and learning styles, as well as state and local standards. The course will also focus on assessing student learning and integrating technology into instruction. Several sessions will be devoted to New York City Licensing and New York State Certification requirements for the reporting of child abuse and maltreatment, in addition to drug, alcohol and violence prevention training.

Prerequisites: EDC 217, EDC 310, EDC 332, EDC 340, EDC 350, EDC 360; SLS 218 and SLS 262 and a GPA of 3.0 or above
Corequisite: EDC 440

In addition, students must meet each of the following criteria:
1. An overall grade point average of 3.0
2. A grade point average of 3.0 in all education courses
3. A minimal grade of C+ in all education courses
4. Three faculty recommendations, at least one from a professor who can attest to your performance in the field
5. Satisfactory fieldwork evaluations

EDC 412 Reading in Primary and Upper Elementary Classroom II 3 hours; 3 credits
The objective of this course is to enable students to apply principles of reading instruction to the actual field situation for individual children. Conferences and field supervision.

Prerequisites: EDC 215, EDC 216, EDC 310, and a GPA of 3.0 or above

EDC 440 Student Teaching and Seminar in Early Childhood Education I 2 credits
Practice and problem-solving in early childhood classrooms, pre-K through 2. Designed for public schools. Students will be in attendance at the assigned school 2.5 days per week for a complete semester. Students will be observed provisioning and interacting with small and larger groupings of children. Students meet once a week for two hours in a seminar to reflect upon the educational philosophies they have studied and the methodologies they are currently implementing in their own classrooms as they develop their own approaches to teaching and learning. Application for a student teaching assignment must be completed and filed with the Student Teaching Office the semester preceding the semester in which the student plans to student teach. Students must also submit three letters of recommendation from full-time Education faculty. Graded Pass (P) or Fail (F).

Prerequisites: EDC 340, EDC 342 and a GPA of 3.0 or above
Corequisite: EDC 316, EDC 360

In addition, students must meet each of the following criteria:
1. An overall grade point average of 3.0
2. A grade point average of 3.0 in all education courses
3. A minimal grade of C+ in all education courses
4. Three letters of recommendation from full-time Education faculty, at least one from a professor who can attest to your performance in the field
5. Satisfactory fieldwork evaluations

**EDC 441  Student Teaching and Seminar in Early Childhood Education II**

3 credits

Practice and problem-solving in early childhood classrooms, pre-K through 2. Designed for public schools. Students will be in attendance at the assigned school three half and two full days a week for a full semester. Candidates meet once a week for two hours in a seminar to synthesize information learned information learned throughout their program and produce and deliver meaningful, effective lessons addressing diverse learners and learning styles, as well as state and local standards. The course will also focus on assessing student learning and integrating technology into instruction. Several sessions will be devoted to New York State Certification and New York City Licensing requirements, including required workshops. Application for a student teaching assignment must be completed and filed with the Student Teaching Office the semester preceding the semester in which the student plans to complete EDC 441. Graded Pass (P) or Fail (F).

Prerequisites: EDC 316, EDC 360, EDC 440, SLS 218, SLS 262 and a GPA of 3.0

Corequisite: EDC 332

In addition, students must meet each of the following criteria:

1. An overall grade point average of 3.0
2. A grade point average of 3.0 in all education courses
3. A minimal grade of C+ in all education courses
4. Three letters of recommendation from full-time Education faculty, at least one from a professor who can attest to your performance in the field
5. Satisfactory fieldwork evaluations

**EDD - General Education**

**EDD 252  History of Education in the United States**

(Also HST 252)

4 hours; 4 credits

The history and social foundation of American education. Topics include: the historical development of American public schools, the schools and race, the social function of compulsory schooling, the expansion of higher education in the post-World War II period, and the conceptual differentiation between schooling as socialization and education for personal growth. (social science) (p&d)

Prerequisites: ENG 111, COR 100, or college-level history course

**EDE - Elementary Education**

**EDE 200  Social Foundations of Education**

4 credits

The legal and judicial landmarks, social policies, and technological advances that affect schools and their diverse populations are analyzed. Ten hours are spent in varied education environments examining the relationship between theory and practice. (LA&S)

Prerequisites: 45 total credits earned that include six credits in the social sciences and/or philosophy, and ENG 151 and a GPA of 3.0

**EDE 206  Writing for Teachers**

2 credits; 2 hours

This course addresses the personal, professional, and academic forms of writing fundamental for classroom teachers in all disciplines. The course is conducted as a writing workshop, providing students with modeling, writing practice, and extensive feedback on their writing. Students develop a portfolio of written and revised pieces, including lesson plans, letters to parents, and reflections on practice.

Pre or corequisite: Students must be accepted into an undergraduate Education program or concentration; or accepted into the SLS program.

**EDE 260  Psychological Foundations of Education**

4 hours; 4 credits

An examination of the developing child from preschool until adolescence. Major theories of development and the interaction among cognitive, social, and other aspects of development are emphasized. Children with different abilities are discussed, as are cultural, gender and socioeconomic factors. Ten hours of fieldwork in varied educational settings will increase awareness of individual differences and their implications for classroom learning. (LA&S)

Prerequisites: 45 total credits earned that include three credits in psychology, and ENG 151 and a GPA of 3.0

**EDE 301  Literacy Development and Language Acquisition in Elementary Education**

4 hours; 4 credits

An examination of major theories in literacy and language acquisition from early to later childhood and of various strategies for creating literature-based reading/writing programs to encourage literacy at all levels and to provide for differences in motivation, learning needs, cultural heritage, and background experience. Students evaluate published materials and technological aids designed to facilitate literacy and language acquisition. The course provides students with a variety of methods to assist children with diverse language, reading, and writing competencies. Ten hours of field experience provide an opportunity to observe in varied and inclusive settings to evaluate diagnostic assessment techniques and interventions. Cannot be taken concurrently with EDE 302.

Pre- or corequisites: Junior standing and either EDE 200 and EDE 260, or EDC 215 and EDC 216, or EDS 201 and EDS 202, and a GPA of 3.0 or above

**EDE 302  Social Studies, Art, and Reading and Language Arts in Elementary Education**

3 lecture hours, 6 field hours; 6 credits
An examination of the structures and concepts of social studies, art, and reading and language arts for the elementary school. Appropriate connections among the disciplines are noted, relevant research on child development and learning is incorporated, and strategies to provide for students’ special needs are explored. Issues addressed include curriculum development, resources and materials, management, standards, assessment, and the educational application of technology. A fieldwork component of 36 hours provides opportunities to plan instruction, enhance communication skills in the disciplines, and connect theory to practice. Cannot be taken with EDE 303. NOTE: This course has a material fee. Prerequisites: EDE 301 and a GPA of 3.0 or above.

EDP 310 Survey of Exceptional Children I
3 hours; 4 credits
The first half of this course provides an orientation to the physical, social, and psychological aspects and educational needs of students with physical handicaps and emotional disturbances, while the second half considers these aspects as they apply to students with learning disabilities and mental retardation. The survey includes philosophy, history, classification, characteristics, etiology, and special educational provisions as well as psychological and educational assessment procedures in special education. Active fieldwork experiences are required.

EDP 311 Survey of Exceptional Children II
4 hours; 4 credits
The first half of this course provides an orientation to the physical, social, and psychological aspects and educational needs of students with physical handicaps and emotional disturbances, while the second half considers these aspects as they apply to students with learning disabilities and mental retardation. The survey includes philosophy, history, classification, characteristics, etiology, and special educational provisions as well as psychological and educational assessment procedures in special education. Active fieldwork experiences are required.

EDP 400 Special Educational Needs of People with Disabilities
3 hours; 3 credits
This course is required for teacher certification. The course examines current trends, including state and federal laws and regulations related to special education, in providing special education services to individuals (pre-school, school-age, adult) with developmental disabilities. The approach of the course follows the process of assessment, instructional planning, instruction and evaluation of instruction in each of four areas of development disabilities: sensory disabilities, physical disabilities, communication disabilities and behavioral disabilities. The emphasis is placed on understanding instructional techniques, and how they meet the needs of the students with developmental disabilities. (social science) (p&d) NOTE: This course satisfies the College Option. Prerequisite: ENG 111

EDP 402 Reflection and Analysis in Student Teaching in Elementary Education
2 hours; 2 credits
Student teachers reflect upon the educational philosophies that they have studied and the methodologies that they are implementing as they develop their own philosophical approaches to teaching and learning. The teacher’s role in developing environments that are safe and nurturing as well as intellectually stimulating and challenging for all students is examined. Hazards to children, including child abuse and substance abuse, will be discussed. To be taken concurrently with EDE 400. Prerequisite: a GPA of 3.0 or above.

EDP - Special Education

EDP 220 Special Educational Needs of People with Disabilities
3 hours; 3 credits
This course is required for teacher certification. The course examines current trends, including state and federal laws and regulations related to special education, in providing special education services to individuals (pre-school, school-age, adult) with developmental disabilities. The approach of the course follows the process of assessment, instructional planning, instruction and evaluation of instruction in each of four areas of development disabilities: sensory disabilities, physical disabilities, communication disabilities and behavioral disabilities. The emphasis is placed on understanding instructional techniques, and how they meet the needs of the students with developmental disabilities. (social science) (p&d) NOTE: This course satisfies the College Option. Prerequisite: ENG 111

EDP 310 Survey of Exceptional Children I
4 hours; 4 credits
The first half of this course provides an orientation to the physical, social, and psychological aspects and educational needs of students with physical handicaps and emotional disturbances, while the second half considers these aspects as they apply to students with learning disabilities and mental retardation. The survey includes philosophy, history, classification, characteristics, etiology, and special educational provisions as well as psychological and educational assessment procedures in special education. Active fieldwork experiences are required.

EDP 311 Survey of Exceptional Children II
4 hours; 4 credits
The first half of this course provides an orientation to the physical, social, and psychological aspects and educational needs of students with physical handicaps and emotional disturbances, while the second half considers these aspects as they apply to students with learning disabilities and mental retardation. The survey includes philosophy, history, classification, characteristics, etiology, and special educational provisions as well as psychological and educational assessment procedures in special education. Active fieldwork experiences are required.

Index 175
What kind of a learner am I? How will this influence my teaching? How does a teacher reach students who have different learning styles? Aspiring teachers will continually reflect on their host school experience.

Pre or corequisite: Permission of the Office of Fieldwork in the School of Education, a minimum of 50 hours of fieldwork along with the seminar.

EDS 301        The Pedagogy of Secondary School in the Social Studies
4 hours; 4 credits
Students explore a range of effective and differentiated strategies for designing, implementing, and assessing teaching and learning in the secondary social studies classroom. Issues of language and literacy acquisition related to the social studies are discussed and the uses of technology are highlighted. A fieldwork component of 35 hours is included.
Prerequisites: EDS 201, EDS 202, EDS 315, and a GPA of 3.0 or above.

EDS 302        The Pedagogy of Secondary School in English
4 hours; 4 credits
Issues of teaching and learning English language arts and literature are examined with attention to planning, instruction, assessment, management, and the educational application of technology. Reading and learning activities and literature depicting multicultural settings are explored in relation to developing strategies for instruction and providing for students’ differing special needs. A fieldwork component of 35 hours is included.
Prerequisites: EDS 201, EDS 202, EDS 316, and a GPA of 3.0 or above.

EDS 303        The Pedagogy of Secondary School in Mathematics
4 hours; 4 credits
Issues of teaching and learning mathematics are examined with attention to planning, instruction, assessment, management, and the application of technology. Mathematical concepts, structures, and language are explored in relation to developing strategies for instruction and providing for students’ differing special needs. A fieldwork component of 35 hours is included.
Prerequisites: EDS 201, EDS 202, EDS 317, and a GPA of 3.0 or above.

EDS 304        The Pedagogy of Secondary School in Science
4 hours; 4 credits
Issues of teaching and learning science are examined with attention to planning, instruction, assessment, management, and the educational application of technology. Scientific concepts, structures, and language are explored in relation to developing strategies for instruction and providing for students’ differing special needs. A fieldwork component of 35 hours is included. NOTE: This course has a material fee.
Prerequisites: EDS 201, EDS 202, EDS 318, and a GPA of 3.0 or above.
EDS 305 The Pedagogy of Secondary School in Foreign Language
4 hours; 4 credits
Issues of teaching and learning a foreign language are examined with attention to planning, instruction, assessment, management, and the educational application of technology. Issues of language acquisition, written and oral communication, and grammar are explored in relation to developing strategies for instruction and providing for students’ differing special needs. A fieldwork component of 35 hours is included.
Prerequisites: EDS 201, EDS 202, EDS 319, and a GPA of 3.0 or above

EDS 307 Discovery Learning and Interdisciplinary Instruction
4 hours; 4 credits
Development of a conceptual understanding of the teaching of transcending content defined by its subject areas. Discovery learning is explored and used to bridge the school disciplines and to address the different strengths and needs of adolescents. Students in Mathematics, English, History, Spanish, Biology, and Chemistry majors work together to create integrated curricula as relevant research on child development and learning is discussed. A 35 hour fieldwork component is included.
Prerequisites: EDS 201, EDS 202, and a GPA of 3.0 or above
Corequisite: EDS 301 or EDS 302 or EDS 303 or EDS 304 or EDS 305

EDS 315 The Secondary School Curriculum in the Social Studies
4 credits; 4 hours
This course focuses on the social studies curriculum for the secondary school and calls upon the students’ preparation in the History major to inform their study, particularly with respect to the selection, scope, and sequence of topics. In this way, the curriculum is examined from the specialist’s standpoint. Central to this examination is the process of transforming knowledge of contact and curriculum for the purpose of teaching and learning. Topics include general principles for developing a social studies curriculum, connections to state and national standards, and resources for teaching the social studies. A field work component of 35 hours is included.
Prerequisite: EDS 201, EDS 202, and a GPA of 3.0 or above; admission into the Adolescence Education program; History major

EDS 316 The Secondary School Curriculum in English
4 credits; 4 hours
This course focuses on the English curriculum for the secondary school and calls upon the students’ preparation in the English major to inform their study, particularly with respect to the selection, scope, and sequence of topics. In this way, the curriculum is examined from the specialist’s standpoint. Central to this examination is the process of transforming knowledge of contact and curriculum for the purpose of teaching and learning. Topics include general principles for developing an English curriculum, connections to state and national standards, and resources for teaching English. A field work component of 35 hours is included.
Prerequisite: EDS 201, EDS 202, and a GPA of 3.0 or above; admission into the Adolescence Education program; English major

EDS 317 The Secondary School Curriculum in Mathematics
4 credits; 4 hours
This course focuses on the mathematics curriculum for the secondary school and calls upon the students’ preparation in the Mathematics major to inform their study, particularly with respect to the selection, scope, and sequence of topics. In this way, the curriculum is examined from the specialist’s standpoint. Central to this examination is the process of transforming knowledge of contact and curriculum for the purpose of teaching and learning. Topics include general principles for developing a mathematics curriculum, connections to state and national standards, and resources for teaching mathematics. A field work component of 35 hours is included.
Prerequisite: EDS 201, EDS 202, and a GPA of 3.0 or above; admission into the Adolescence Education program; Mathematics major

EDS 318 The Secondary School Curriculum in Science
4 credits; 4 hours
This course focuses on the science curriculum for the secondary school and calls upon the students’ preparation in the Biology, Chemistry, or Physics major to inform their study, particularly with respect to the selection, scope, and sequence of topics. In this way, the curriculum is examined from the specialist’s standpoint. Central to this examination is the process of transforming knowledge of contact and curriculum for the purpose of teaching and learning. Topics include general principles for developing a science curriculum, connections to state and national standards, and resources for teaching science. A field work component of 35 hours is included.
Prerequisite: EDS 201, EDS 202, and a GPA of 3.0 or above; admission into the Adolescence Education program; Biology, Chemistry or Physics major

EDS 319 The Secondary School Curriculum in Foreign Language
4 credits; 4 hours
This course focuses on the foreign language curriculum for the secondary school and calls upon the students’ preparation in the Spanish and Italian Studies majors to inform their study, particularly with respect to the selection, scope, and sequence of topics. In this way, the curriculum is examined from the specialist’s standpoint. Central to this examination is the process of transforming knowledge of contact and curriculum for the purpose of teaching and learning. Topics include general principles for developing a foreign language curriculum, connections to state and national standards, and resources for teaching a language other than English. A field work component of 35 hours is included.
Prerequisite: EDS 201, EDS 202, and a GPA of 3.0 or above; admission into the Adolescence Education program; Spanish or Italian Studies major.
Electrical Engineering

(Bachelor of Science)
Department of Engineering Science and Physics, Building 1N, Room 226
Chairperson and Professor Neophytos (Neo) Antoniades

The Electrical Engineering bachelor’s degree program is accredited by the Engineering Accreditation Commission (EAC) of the Accreditation Board for Engineering and Technology, Inc. (ABET), 111 Market Place, Suite 1050, Baltimore, MD 21202-4012.

Electrical Engineering (BS)

Pathways General Education Requirements: 42 credits

6 credits
Prerequisite: A GPA of 3.0 or above

In addition, students must meet each of the following criteria:

1. An overall grade point average of 3.0
2. A grade point average of 3.0 in all education courses
3. A minimal grade of C+ in all education courses
4. Three faculty letters of recommendation, at least one from faculty in the student’s major
5. Satisfactory fieldwork evaluations

EDS 401 Reflection and Analysis in Student Teaching in Secondary Education
2 hours; 2 credits
Prerequisites: EDS 400, EDS 301, EDS 302, EDS 303 or EDS 304, and EDS 305 (or an equivalent course). Corequisite: EDS 401

EDS 400 Student Teaching in Secondary Education
6 credits
Practice and problem-solving in student teaching in secondary schools. Students are required to be in attendance at an assigned school full-time, (8:30am-3:00pm) five days per week for one full semester. Students will have a grades 7-9 and a grades 10-12 placement. Application for a student teaching assignment must be filed with the Student Teaching Office the semester preceding the semester in which the student plans to student teach. Students must also submit three letters of recommendation from full-time Education faculty. To be taken concurrently with EDS 401. Graded Pass (P) or Fail (F).

Prerequisites: EDS 201, EDS 202 and (EDS 315 or EDS 316 or EDS 317 or EDS 318 or EDS 319) and (EDS 301 or EDS 302 or EDS 303 or EDS 304 or EDS 305)
Corequisite: EDS 401

In addition, students must meet each of the following criteria:

1. An overall grade point average of 3.0
2. A grade point average of 3.0 in all education courses
3. A minimal grade of C+ in all education courses
4. Three faculty letters of recommendation, at least one from faculty in the student’s major
5. Satisfactory fieldwork evaluations

Pathways Required Core: 12 credits

Required English Composition Requirement (RECR)
ENG 111 Introduction to College Writing 3 credits
ENG 151 College Writing 3 credits

Required Mathematical and Quantitative Reasoning Requirement (RMQR)
Students are required to complete the following course:
MTH 231* Analytic Geometry and Calculus I 3 credits
NOTE: Students may be required to take a prerequisite for MTH 231

Required Life and Physical Sciences Requirement (RLPR)
Students are required to complete the following course:
PHY 120* General Physics I 3 credits

Pathways Flexible Core: 18 credits
Flexible U.S. Experience in its Diversity Requirement (FUSR)
Students are required to complete the following courses:
COR United States: Issues, Ideas, and Institutions 100 credits

Flexible Scientific World Requirement (FSWR)
Students are required to complete the following courses:
PHY 160* General Physics II 3 credits
PHY 240 Waves and Modern Physics 3 credits

In addition to the above, students must select 3 courses from the following areas with no more than one course from any area and no more than two courses from any discipline or interdisciplinary field:

Flexible World Cultures and Global Issues Requirement (FWGR) 3 credits
Flexible Creative Expression Requirement (FCER) 3 credits
Flexible Individual and Society Requirement (FISR) 3 credits

College Option 12 credits

Students are required to complete the following courses:

<table>
<thead>
<tr>
<th>Area</th>
<th>Course No.</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Social Science</td>
<td>ECO 251*</td>
<td>International Political Economy</td>
<td>4</td>
</tr>
<tr>
<td>Lab for RLPR</td>
<td>PHY 121*</td>
<td>General Physics I Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>Lab for FSWR</td>
<td>PHY 161*</td>
<td>General Physics II Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>STEM</td>
<td>MTH 232*</td>
<td>Analytic Geometry and Calculus II</td>
<td>3</td>
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<tr>
<td>or MTH 233*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>STEM</td>
<td>CHM 141*</td>
<td>General Chemistry I</td>
<td>3</td>
</tr>
</tbody>
</table>

*Also fulfills pre-major requirements.

Note: This program has received a waiver to specify particular courses students must take in the STEM are-
as of the Common Core (Mathematical and Quantitative Reasoning, Life and Physical Sciences, and Scientific World) and College Option. If students take different courses in these areas, they will be certified as having completed the Common Core and the College Option area, but it may not be possible for them to finish their degree program within the regular number of credits.

Pre-Major Requirements: 47 credits
Students beginning the Electrical Engineering program as freshmen should complete the following requirements:

- **ENS 100** Introduction to Engineering Science 2 credits
- **ENS 110** Engineering Graphics 2 credits
- **ENS 136** Computer-aided Engineering I 1 credit
- **ENS 220** Introduction to Computer Engineering 4 credits
- **ENS 221** Digital Electronics Laboratory 2 credits
- **ENS 241** Electrical and Electronics Circuits 4 credits
- **ENS 249** Basic Measurement Laboratory 2 credits
- **CSC 270** Introduction to Scientific Computing 4 credits
- **ECO 251** International Political Economy 4 credits
- **ECO 285** Economics for Engineers 4 credits
- **MTH 229** Calculus Computer Laboratory 1 credit
- **MTH 231** Analytic Geometry and Calculus I 3 credits
- **MTH 232** Analytic Geometry and Calculus II 3 credits
- **MTH 233** Analytic Geometry and Calculus III 3 credits
- **PHY 120** General Physics I 3 credits
- **PHY 121** General Physics I Laboratory 1 credit
- **PHY 160** General Physics II 3 credits
- **PHY 161** General Physics II Laboratory 1 credit
- **CHM 141** General Chemistry I 3 credits
- **CHM 121** General Chemistry I Laboratory 1 credit

*At least eight credits of advanced ENS electives chosen from the following: **ENS 434, ENS 436, ENS 438, ENS 441, ENS 446, ENS 463, ENS 464, ENS 466, ENS 470, ENS 471, ENS 473** 8 credits

The total number of ENS credits must be at least 56, as approved by an electrical engineering advisor.

Total Credits Required: 133

Liberal Arts and Sciences Requirement
Of the 133 credits required for the BS in Electrical Engineering, at least 66 must be in liberal arts and sciences courses. Most courses designated ENS are non-liberal arts and sciences; those ENS courses that are cross-listed in mathematics (MTH) or physics (PHY) are liberal arts and sciences.

Electrical Engineering Technology*

(Associate in Applied Science, Minor)
Chairperson and Professor Neophytos (Neo) Antoniades
Interdisciplinary Coordinating Committee Chairperson: Professor Neophytos (Neo) Antoniades, Building 4N, Room 201

*Admission to this program has been suspended

This two-year career program, accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology (TAC/ABET, 111 Market Street, Suite 1050, Baltimore, MD 21202; telephone 410.347.7700), is designed to provide a theoretical and practical course of study in the basic principles and applications of electrical and electronics technology with emphasis on the computer. The curriculum includes classes in communications, microcomputers, and computer programming. Graduates are prepared for employment as systems field and customer engineers, facilities managers, junior programmers, and sales representatives in the computer and electronics industries and in firms using modern computer systems in PC support, communications, networks, programming, research, development, and sales. Graduates of the program may continue in the BS degree programs in Computer Science, Engineering Science, or Economics at CSI. Students in bachelor's degree programs may choose a minor in Electrical Engineering Technology.

Electrical Engineering Technology (AAS)

The Educational Objectives of our Electrical Engineering Technology program are that our graduates shall:

1. Have the technical knowledge required for entry level positions in the various electrical/electronic industries.
2. Have the practical and professional skills needed to function effectively in a real world environment in the electric/electronic field.
3. Have sufficient academic backgrounds of a diverse nature that will allow them to continue their education towards a baccalaureate degree at an
accredited institution or achieve career advancement in their chosen fields.

**Pathways Common Core: 21-24 credits**

**Pathways Required Core: 12-14 credits**

- English Composition (RECR) 6 credits
- ENG 111 Introduction to College Writing 3 credits
- ENG 151 College Writing 3 credits
- Mathematical and Quantitative Reasoning (RMQR) credits

Students are required to complete one of the following courses:

- MTH 123 College Algebra and Trigonometry* 4 credits
- OR
- MTH 130 Pre-Calculus Mathematics* 3 credits

Life and Physical Sciences (RLPR) 3 or more credits

Students are required to complete one of the following courses:

- PHY 116 Physics *I* 4 credits
- OR
- PHY 120 General Physics *I* 3 credits

**Pathways Flexible Core: 9-10 credits**

Students may take no more than two courses from any discipline or interdisciplinary field in the Flexible Core.

- U.S. Experience in its Diversity (FUSR) 3 credits

Students are required to complete the following course:

- COR 100 United States: Issues, Ideas, and Institutions

**Pathways Required Core**

- MTH 123 College Algebra and Trigonometry 4 credits
- OR
- MTH 130 Pre-Calculus Mathematics* 3 credits

Life and Physical Sciences (RLPR) 3 or more credits

Students are required to complete one of the following courses:

- PHY 116 Physics *I* 4 credits
- OR
- PHY 120 General Physics *I* 3 credits

**Pathways Flexible Core**

- PHY 156 Physics *II* 4 credits
- OR
- PHY 160 General Physics *II* 3 credits

A sequence of at least seven credits of mathematics from the level of MTH 123 or higher from the following courses:

- MTH 123 College Algebra and Trigonometry 4 credits
- MTH 130 Pre-Calculus 3 credits
- MTH 229 Calculus Computer Laboratory 1 credit
- MTH 230 Calculus I with Pre-Calculus 6 credits
- MTH 231 Analytic Geometry and Calculus 3 credits

**Total Credits Required: 64**

Note: This program has received a waiver to specify particular courses students must take in the STEM areas of the Common Core (Mathematical and Quantitative Reasoning, Life and Physical Sciences, and Scientific World). If students take different courses in these areas, they will be certified as having completed the Common Core area, but it may not be possible for them to finish their degree program within the regular number of credits.

**Liberal Arts and Sciences Requirement:**

All courses designated ELT and ENT are non-liberal arts and sciences.

**Electrical Engineering Technology Minor**

The minor in Electrical Engineering Technology is for students enrolled in a bachelor’s degree program.

**Minor Requirement: 16 credits**

- ENS 102 Introduction to Electrical and Electronic Technology 4 credits
- ENS 110 Engineering Graphics 2 credits
- ELT 113 Introduction to Electronics 1 credit
Electrical Engineering Technology Courses

ELT 113  Introduction to Electronics
3 laboratory hours; 1 credit
Introduction to the study of electronics. Diode and transistor characteristics are discussed and used in the construction of an electronic device. Students design, photo-etch, and assemble a printed circuit. Characteristics of the device and component voltages are measured.
Prerequisite: MTH 030 or equivalent or higher

ELT 114  Computer-aided Technology
3 laboratory hours; 1 credit
Application of computer-based tools and simulations to analyze testing and debugging of electrical circuits and systems. Introduction to building virtual instruments. Acquisition and measurements of electrical signals and data analysis through virtual instruments.
Pre- or corequisite: ELT 113

ELT 224  Electrical Circuit Analysis
4 hours; 4 credits
This course begins with physical electrical concepts and continues through the analysis of various specific circuit configurations with dc and ac sources. Topics include resistance, capacitance, and inductance in series, parallel, and series-parallel connection, transient circuit analysis, ac analysis using phasors, single and polyphase power concepts, resonance and filters, network theorems, and transformer theory. Applications for the various circuits will also be discussed.
Pre- or corequisites: (MTH 030 and ENS 102) or MTH 123 or higher

ELT 225  Electrical Circuit Analysis Laboratory
3 hours; 1 credit
Laboratory experiments will be performed using various instruments from analog meters to the digitizing oscilloscope. Experiments will be based upon validating the theory of Electrical Circuit Analysis as well as demonstrating the applications of the various circuit configurations. A detailed laboratory report will be written and/or oral presentation will be required for the experiments.
NOTE: This course has a material fee.
Pre- or corequisite: ELT 224

ELT 331  Electronics Laboratory
3 laboratory hours; 1 credit
Semiconductor circuitry and electronics laboratory instrumentation. Transistor amplification, biasing, and frequency response. Transistor power amplifiers. Power supplies. Negative feedback and linear integrated circuit amplifiers. Introduction to computer-aided circuit analysis using the personal computer.
Prerequisites: ELT 113, ELT 224
Pre- or corequisites: ELT 334

ELT 334  Electronics
3 hours; 3 credits
Physics and characteristics of semiconductor solid state devices. Analysis and application of transistor circuits. Time varying signal behavior of solid device circuits and systems including power applications and frequency response. Introduction to modulation and communications.
Prerequisites: ELT 113, ELT 224, MTH 123 or higher

ELT 345  Microprocessor Laboratory
3 laboratory hours; 1 credit
Experiments including register, memory, and stack operation. Data and address bus structure, signature analysis and other fault location techniques. Commercial microprocessor trainers based on 8085 and 2920 and logic analyzers will be used.
Pre- or corequisite: ELT 334

ELT 437  Electrical Power Transmission and Distribution
2 hours lecture, 4 hours laboratory; 4 credits
Power and three-phase circuits power transmission, and transformers. Real and reactive power, power flow and power handling capacity of parallel lines. Long haul high voltage power transmission. Power distribution between two parallel lines. Three-phase distribution transformer configurations.
Prerequisite: ELT 331

ELT 442  Computer Hardware Technology
3 class hours, 3 laboratory hours; 4 credits
Study of the electrical and mechanical function of computer systems such as the advanced personal computer. Hardware and software principles are explored. Topics include memory, video, communication, disk drives, printer, keyboard, assembler software, and debugging tools. Includes hands-on work with computer hardware and peripherals.
Prerequisite: ENS 221 or CSC 347

ELT 466  Telecommunications Systems Technology
2 hours lecture, 4 hours laboratory; 4 credits
Communication system overview; signals, noise & impairments; frequency, phase and bandwidth. Analog & digital signal formats; modulation & demodulation techniques. Data communication systems. Transmission lines and RF techniques; fiber optic components & systems. Multiple access for mobile communications.
Prerequisites: ENS 221

Engineering Science
(Bachelor of Science, Associate in Science)
Department of Engineering Science and Physics, Building 1N, Room 226
Chairperson and Professor Neophytos (Neo) Antoniades
The Engineering Science program seeks to guarantee that every student is prepared for a lifetime of creative
engineering design work. There are many correct solutions to engineering design problems—they differ in their simplicity, elegance, cost, and social and environmental impacts. Every student learns how to formulate problems, find correct solutions, and choose among these solutions for an efficient design. For most students, the first design experience is in the course ENS 220 Introduction to Computer Engineering. Next, in the laboratory, ENS 221 students take the paper designs worked out in ENS 220 and build, test, and evaluate their own designs. In ENS 362 Microcontrollers, the design, building, testing, and evaluation of more complicated engineering systems is performed. In this fashion, students are prepared to handle real-world design projects including related issues of economics, aesthetics, environmental problems, reliability analysis, and safety.

In the courses ENS 310, ENS 336, ENS 471, ENS 380, ENS 441, ENS 450, and in all of the electives, there is a formal design component incorporated. In these courses, the designs are tested and evaluated using computer simulation or calculation. The actual construction, testing, and evaluation of student designs occurs in the laboratory courses. The most important design experience for all students is obtained in the capstone courses ENS 491 Advanced Engineering Design I and ENS 492 Advanced Engineering Design II. These are project-oriented courses in which students are asked to participate in the design of a major real-world system.

The BS degree program offers three specializations: Computer Engineering, Electrical Engineering, and Mechanical Engineering. The specialization in Computer Engineering has been developed in collaboration with the Department of Computer Science.

The Engineering Science bachelor’s degree program is accredited by the Engineering Accreditation Commission (EAC) of the Accreditation Board for Engineering and Technology, Inc. (ABET), 111 Market Place, Suite 1050, Baltimore, MD 21202-4012.

**Engineering Science (AS)**

The Associate in Science in Engineering Science program prepares students for continuation in the BS program in Engineering Science at the College of Staten Island or in engineering programs at other institutions.

**Pathways Common Core: 30 credits**

**Pathways Required Core: 12-14 credits**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 111 Introduction to College Writing</td>
<td>3 credits</td>
</tr>
<tr>
<td>ENG 151 College Writing Reasoning (RMQR)</td>
<td>3 credits</td>
</tr>
</tbody>
</table>

Students are required to complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH 231 Analytic Geometry and Calculus I*</td>
<td>3 credits</td>
</tr>
<tr>
<td>CHM 141 Analytic Chemistry</td>
<td>3 credits</td>
</tr>
<tr>
<td>CHM 241 Analytic Chemistry Laboratory</td>
<td>1 credit</td>
</tr>
</tbody>
</table>

**Pathways Flexible Core: 18 credits**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. Experience in its Diversity (FUSR)</td>
<td>3 credits</td>
</tr>
<tr>
<td>MTH 231 Analytic Geometry and Calculus I*</td>
<td>3 credits</td>
</tr>
</tbody>
</table>

Students are required to complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 120 General Physics I*</td>
<td>3 credits</td>
</tr>
</tbody>
</table>

**Pathways Restricted Core: 18 credits**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH 231 Analytic Geometry and Calculus I*</td>
<td>3 credits</td>
</tr>
<tr>
<td>CHM 141 Analytic Chemistry</td>
<td>3 credits</td>
</tr>
<tr>
<td>CHM 241 Analytic Chemistry Laboratory</td>
<td>1 credit</td>
</tr>
</tbody>
</table>

Students are required to complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH 311 Probability and an Introduction to Mathematical Statistics</td>
<td>4 credits</td>
</tr>
<tr>
<td>ENS 362 Microprocessors</td>
<td>4 credits</td>
</tr>
<tr>
<td>MTH 330 Applied Mathematical Analysis</td>
<td>4 credits</td>
</tr>
<tr>
<td>MTH 330 From Calculus to Analysis</td>
<td>4 credits</td>
</tr>
<tr>
<td>MTH 330 From Calculus to Analysis I</td>
<td>4 credits</td>
</tr>
</tbody>
</table>

**Core Requirements: 42 credits**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENS 100 Introduction to Engineering Science</td>
<td>2 credits</td>
</tr>
<tr>
<td>ENS 110 Engineering Graphics</td>
<td>2 credits</td>
</tr>
<tr>
<td>ENS 125 Computer-Aided Engineering</td>
<td>1 credit</td>
</tr>
<tr>
<td>ENS 220 Introduction to Computer Engineering</td>
<td>4 credits</td>
</tr>
<tr>
<td>ENS 221 Digital Electronics Laboratory</td>
<td>2 credits</td>
</tr>
<tr>
<td>ENS 241 Electrical and Electronic Circuits</td>
<td>4 credits</td>
</tr>
<tr>
<td>ENS 249 Basic Measurement Laboratory</td>
<td>2 credits</td>
</tr>
<tr>
<td>ENS 250 Engineering Mechanics</td>
<td>3 credits</td>
</tr>
<tr>
<td>MTH 219 Calculus Computer Laboratory</td>
<td>1 credit</td>
</tr>
<tr>
<td>MTH 231 Analytic Geometry and Calculus I*</td>
<td>3 credits</td>
</tr>
<tr>
<td>MTH 232 Analytic Geometry and Calculus II</td>
<td>3 credits</td>
</tr>
<tr>
<td>MTH 233 Analytic Geometry and Calculus III</td>
<td>3 credits</td>
</tr>
<tr>
<td>PHY 120 General Physics I</td>
<td>3 credits</td>
</tr>
<tr>
<td>PHY 121 General Physics I Laboratory</td>
<td>1 credit</td>
</tr>
<tr>
<td>PHY 160 General Physics II</td>
<td>3 credits</td>
</tr>
<tr>
<td>PHY 161 General Physics II Laboratory</td>
<td>1 credit</td>
</tr>
<tr>
<td>MTH 330 From Calculus to Analysis</td>
<td>4 credits</td>
</tr>
<tr>
<td>MTH 330 From Calculus to Analysis I</td>
<td>4 credits</td>
</tr>
</tbody>
</table>

* MTH 230 Calculus I with Pre-Calculus can be substituted for MTH 231 Analytic Geometry and Calculus I

The remaining four credits should be chosen from the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 141 Analytic Chemistry</td>
<td>3 credits</td>
</tr>
<tr>
<td>CHM 241 Analytic Chemistry Laboratory</td>
<td>1 credit</td>
</tr>
<tr>
<td>CSC 270 Introduction to Scientific Computing</td>
<td>4 credits</td>
</tr>
<tr>
<td>ECO 285 Economics for Engineers</td>
<td>4 credits</td>
</tr>
<tr>
<td>ENS 310 Thermodynamics</td>
<td>4 credits</td>
</tr>
<tr>
<td>ENS 331 Digital Signal Processing</td>
<td>4 credits</td>
</tr>
<tr>
<td>ENS 362 Microprocessors</td>
<td>4 credits</td>
</tr>
<tr>
<td>MTH 330 Applied Mathematical Analysis</td>
<td>4 credits</td>
</tr>
<tr>
<td>MTH 330 From Calculus to Analysis</td>
<td>4 credits</td>
</tr>
<tr>
<td>MTH 330 From Calculus to Analysis I</td>
<td>4 credits</td>
</tr>
<tr>
<td>PHY 240 Waves and Modern Physics</td>
<td>3 credits</td>
</tr>
</tbody>
</table>
Total Credits Required: 60
Note: This program has received a waiver to specify particular courses students must take in STEM areas of the Common Core (Mathematical and Quantitative Reasoning, Life and Physical Sciences, and Scientific World). If students take different courses in these areas, they will be certified as having completed the Common Core area, but it may not be possible for them to finish their degree program within the regular number of credits.

Engineering Science (BS)

Pathways General Education Requirements: 42 Credits

Pathways Required Core: 12 credits
Required English Composition Requirement (RECR)
ENG 111 Introduction to College Writing 3 credits
ENG 151 College Writing 3 credits

Required Mathematical and Quantitative Reasoning Requirement (RMQR)
Students are required to complete the following course:
MTH 231* Analytic Geometry and Calculus I 3 credits
NOTE: Students may be required to take a prerequisite for MTH 231.

Required Life and Physical Sciences Requirement (RLPR)
Students are required to complete the following course:
PHY 120* General Physics I 3 credits

Pathways Flexible Core: 18 credits
Students may take no more than one course from any area and no more than two courses from any discipline or interdisciplinary field in the Flexible Core.

Flexible U.S. Experience in its Diversity Requirement (FUSR)
Students are required to complete the following course:
COR 100 United States: Issues, Ideas, and Institutions 3 credits

Flexible Scientific World Requirement (FSWR)
Students are required to complete the following courses:
PHY 160* General Physics II 3 credits
ENS 250* Engineering Mechanics 3 credits

Flexible World Cultures and Global Issues Requirement (FWGR)

Flexible Creative Expression Requirement (FCER)

Flexible Individual and Society Requirement (FISR)

College Option 12 credits
Students are required to complete the following courses:

<table>
<thead>
<tr>
<th>Area</th>
<th>Course No.</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Social Science</td>
<td>ECO 251*</td>
<td>International Political Economy</td>
<td>4</td>
</tr>
<tr>
<td>Lab for RLPR</td>
<td>PHY 121*</td>
<td>General Physics I Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>STEM</td>
<td>MTH 232*</td>
<td>Analytic Geometry and Calculus II</td>
<td>3</td>
</tr>
<tr>
<td>or MTH 233 or PHY 240</td>
<td></td>
<td>Analytic Geometry and Calculus III or Waves and Modern Physics</td>
<td></td>
</tr>
<tr>
<td>STEM</td>
<td>CHM 141*</td>
<td>General Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>STEM</td>
<td>PHY 161*</td>
<td>General Physics II Laboratory</td>
<td>1</td>
</tr>
</tbody>
</table>

*Also fulfills pre-major requirements.

Note: This program has received a waiver to specify particular courses students must take in the areas of the Common Core and Scientific World) and College Option. If students take different courses in these areas, they will be certified as having completed the Common Core and the College Option area, but it may not be possible for them to finish their degree program within the regular number of credits.

Pre-Major Requirements: 50 credits
Students beginning the Engineering Science program as freshmen should complete the following requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Area</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENS 100 Introduction to Engineer</td>
<td>STEM</td>
<td>Science</td>
<td>2</td>
</tr>
<tr>
<td>ENS 110 Engineering Graphics</td>
<td>STEM</td>
<td>2 credits</td>
<td></td>
</tr>
<tr>
<td>ENS 136 Computer-aided Engineer</td>
<td>STEM</td>
<td>I 1 credit</td>
<td></td>
</tr>
<tr>
<td>ENS 220 Introduction to Computer</td>
<td>STEM</td>
<td>Engineering</td>
<td>4</td>
</tr>
<tr>
<td>ENS 221 Digital Electronics</td>
<td>STEM</td>
<td>Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>ENS 241 Electrical and Electronic</td>
<td>STEM</td>
<td>Circuits</td>
<td>4</td>
</tr>
<tr>
<td>ENS 249 Basic Measurement</td>
<td>STEM</td>
<td>Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>ENS 250 Engineering Mechanics</td>
<td>STEM</td>
<td>3 credits</td>
<td></td>
</tr>
<tr>
<td>CSC 270 Introduction to Scientific Computing</td>
<td>STEM</td>
<td>4 credits</td>
<td></td>
</tr>
<tr>
<td>ECO 285 Economics for Engineers</td>
<td>STEM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECO 251 International Political</td>
<td>STEM</td>
<td>Economy</td>
<td>4</td>
</tr>
<tr>
<td>ENS 229 Calculus Computer</td>
<td>STEM</td>
<td>Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>MTH 231 Analytic Geometry and</td>
<td>STEM</td>
<td>Calculus I</td>
<td>3</td>
</tr>
<tr>
<td>MTH 232 Analytic Geometry and</td>
<td>STEM</td>
<td>Calculus II</td>
<td>3</td>
</tr>
<tr>
<td>MTH 233 Analytic Geometry and</td>
<td>STEM</td>
<td>Calculus III</td>
<td>3</td>
</tr>
<tr>
<td>MTH 120 General Physics I</td>
<td>STEM</td>
<td>I</td>
<td>3</td>
</tr>
<tr>
<td>MTH 121 General Physics I</td>
<td>STEM</td>
<td>Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>MTH 160 General Physics II</td>
<td>STEM</td>
<td>3 credits</td>
<td></td>
</tr>
<tr>
<td>MTH 161 General Physics II</td>
<td>STEM</td>
<td>Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CHM 141 General Chemistry I</td>
<td>STEM</td>
<td>3 credits</td>
<td></td>
</tr>
<tr>
<td>CHM 121 General Chemistry I</td>
<td>STEM</td>
<td>Laboratory</td>
<td>1</td>
</tr>
</tbody>
</table>

*MTH 230 Calculus I with Pre-Calculus can be substituted for MTH 231 Analytic Geometry and Calculus I

Major Requirements: 60 credits

There are three specializations in the Engineering Science BS. They are: Computer Engineering Specialization (CES); Electrical Engineering Specialization (EES);
Mechanical Engineering Specialization (MES). Students may choose to follow one of these specializations.

MTH 330 Applied Mathematical Analysis I  4 credits

MTH 311 Probability Theory and an Introduction to Mathematical Statistics (CES, EES)

OR

MTH 331 Applied Mathematical Analysis II (MES)  4 credits

PHY 240 Waves and Modern Physics  3 credits

ENS 310 Thermodynamics  4 credits

ENS 331 Digital Signal Processing (CES, EES)

OR

ENS 450 Fluid Mechanics (MES)  4 credits

ENS 336 Computer-Aided Engineering II  4 credits

CSC 332 Operating Systems I (CES)

AND

CSC 305 Operating Systems Programming Laboratory (CES)

OR

ENS 356 Theory of Electromagnetic Radiation (EES)

OR

ENS 316 Dynamics (MES)  4 credits

ENS 362 Microcontrollers  4 credits

ENS 371 Systems Analysis  3 credits

CSC 326 Information Structures (CES)

OR

ENS 420 Analog and Digital Systems Design (EES)

OR

ENS 380 Mechanics of Solids (MES)  4 credits

ENS 439 Systems Laboratory (CES, EES)

OR

ENS 459 Applied Mechanics Laboratory (MES)  2 credits

ENS 485 Properties of Materials  4 credits

ENS 491 Advanced Engineering Design I  2 credits

ENS 492 Advanced Engineering Design II  2 credits

Four credits of technical electives approved by an engineering science advisor. At least eight credits of advanced ENS electives  4 credits

The total number of ENS credits must be at least 57, as approved by an engineering science adviser.

Computer Engineering Specialization (CES):

Courses fulfilling the pre-major and major requirements should include: ENS 100, ENS 110, ENS 136, ENS 220, ENS 221, ENS 241, ENS 249, ENS 250, ENS 310, ENS 331, ENS 336, ENS 362, ENS 371, ENS 439, ENS 485, ENS 491, ENS 492, CSC 326, CSC 305, and CSC 332

The courses fulfilling the advanced ENS electives should be chosen from the following:

ENS 420, ENS 441, ENS 463, ENS 466, ENS 471, ENS 473, CSC 435

One of the courses fulfilling the technical elective must be:

CSC 446/ENS 446

Electrical Engineering Specialization (EES):

Courses fulfilling the pre-major and major requirements should include: ENS 100, ENS 110, ENS 136, ENS 220, ENS 221, ENS 241, ENS 249, ENS 250, ENS 310, ENS 331, ENS 336, ENS 362, ENS 371, ENS 420, ENS 439, ENS 485, ENS 491, and ENS 492

The courses fulfilling the advanced ENS electives should be chosen from the following:

ENS 441, ENS 434, ENS 438, ENS 446, ENS 463, ENS 464, ENS 466, ENS 471, ENS 473

Mechanical Engineering Specialization (MES):

Courses fulfilling the pre-major and major requirements should include: ENS 100, ENS 110, ENS 136, ENS 220, ENS 221, ENS 241, ENS 249, ENS 250, ENS 310, ENS 316, ENS 336, ENS 362, ENS 371, ENS 380, ENS 450, ENS 459, ENS 485, ENS 491, and ENS 492

The courses fulfilling the advanced ENS electives should be chosen from the following:

ENS 410, ENS 434, ENS 438, ENS 441, ENS 463, ENS 470, ENS 471

Electives: 0-5 credits

Total Credits Required: 133

Honors

To graduate with honors in Engineering Science a student must meet the following requirements:

1. Fulfillment of all the requirements for the Engineering Science degree
2. An overall grade point average of 3.5 and a grade point average of 3.5 in the major
3. Outstanding achievement as demonstrated by ONE or more of the following:
   a. Exceptional senior project
   b. Authorship in a paper or abstract at the refereed conference or journal proceedings in the field
   c. Major recognition award for undergraduate research work within the CUNY community
4. In order for the honors option to be awarded, the student needs to be nominated by faculty or apply before graduation and honors status will be judged and awarded by a departmental committee.

The Engineering Science program offers a number of senior-level electives for students interested in further work in a particular area of engineering and for students interested in graduate work in engineering. Students should consult an advisor in the program for details.

Concentrations are available in the following areas:

Computer Engineering - Communications and Networking

Computer Engineering - Operating Systems

Computer Engineering - Architecture and Organization

Computer Engineering - Artificial Intelligence

Electrical Engineering - Electronics

Electrical Engineering - Control Systems

Electrical Engineering - Communication Systems

Electrical Engineering - Energy Systems

Mechanical Engineering - Heat Transfer

Mechanical Engineering - Fluids and Aerodynamics

Mechanical Engineering - Biomedical Applications
Mechanical Engineering - Environmental Control

Liberal Arts and Sciences Requirement
Of the 133 credits required for the BS in Engineering Science, at least 66 must be in liberal arts and sciences courses. Most courses designated ENS are non-liberal arts and sciences; those ENS courses that are cross-listed in mathematics (MTH) or physics (PHY) are liberal arts and sciences.

Transfer Program
Students who have graduated with a two-year Associate in Applied Science (AAS) degree in one of the engineering technologies can be admitted to the BS degree program. Their previous courses are evaluated, and they are usually required to take such bridging courses as PHY 230 Physics for Engineers and CSC 126 Introduction to Computer Science or CSC 270 Introduction to Scientific Computing, as well as additional mathematics courses.

The requirements for the transfer program are identical to those given above for the BS in Engineering Science.

Pre-Major Requirements:
Same as BS in Engineering Science

Major Requirements:
Same as BS in Engineering Science

Total Credits Required: 133

Engineering Science Courses

ENS 100 Introduction to Engineering
4 hours; 2 credits
Introduction to engineering disciplines, organizations, and ethics; basic engineering parameters; engineering standards and codes, principles for engineering data acquisition and presentations, and effective experimentation; engineering statistics and data analysis; problem-solving and case studies illustrating engineering solutions.
Prerequisite: Passing the CUNY Assessment Test in Reading, passing the CUNY Assessment Test in Writing, and passing the CUNY COMPASS Mathematics Test

ENS 102 Introduction to Electrical and Electronic Technology
3 hours; 3 credits
Introduction to the nature, measurement, generation, and utilization of electricity in our modern world including industrial and consumer electronics, computers, robots, communications. (science) (FSWR) NOTE: This course has a material fee.
Prerequisite: MTH 020 or an appropriate score on the CUNY Mathematics Assessment Test
Corequisite: ENS 103

ENS 103 Introduction to Electrical and Electronic Technology Laboratory
2 laboratory hours; 1 credit
Measurement, AC and DC voltage, current, and power; series and parallel resistive circuits; transformers; resistive, inductive, and capacitive (RLC) circuits. Power circuits and house wiring. Signal measurements through oscilloscope. Half-wave and full-wave rectifiers. (science)
Corequisite: ENS 102

ENS 104 Introduction to Digital Technology
3 credits; 3 hours
Digital revolution and its impact in social, economic, and environmental contexts. Fundamentals of digital electronics: logic operators and memory devices. Digital arithmetic: addition, subtraction, and multiplication. Introduction to integrated circuits (ICs): Up-down counters, timers, analog to digital (A/D) and digital to analog (D/A) converters, and programmable devices. Course will cover several applications of digital technology in everyday life. (science) (FSWR)
Prerequisite: MTH 020 or higher or an appropriate score on the CUNY Mathematics Assessment Test
Corequisite: ENS 105

ENS 105 Introduction to Digital Technology Laboratory
2 laboratory hours; 1 credit
Fundamentals of digital electronics: logic operators and memory devices. Digital arithmetic: addition, subtraction, and multiplication. Introduction to integrated circuits (ICs): BCD and binary up-down counters, timers, analog to digital (A/D) and digital to analog (D/A) converters, and programmable devices. Course will cover several applications of digital technology in everyday life. (science)
Prerequisite: MTH 020 or higher or an appropriate score on the CUNY Mathematics Assessment Test
Corequisite: ENS 104

ENS 110 Engineering Graphics
5 hours; 2 credits
CAD (computer-aided drafting) is used throughout the course. Orthographic projections, and drawings, dimensioning, working drawings, 3D space, spatial analysis, isometric drawings.
Prerequisites: Passing the CUNY ACT Reading and Writing Tests and passing the CUNY Compass Math Assessment Test or permission of the Mathematics Department

ENS 136 Computer-Aided Engineering
3 laboratory hours; 1 credit
Application of computer-based tools and simulations to analysis testing and debugging of electrical circuits and systems. Introduction to building virtual instruments. Acquisition and measurement of electrical signals and data analysis through virtual instruments.
Pre or Co-requisites: ENS 100 and MTH 123 or higher

ENS 220 Introduction to Computer Engineering
4 hours; 4 credits
Number systems and codes. Logic functions, gates and assertion levels. Combinational circuit design and minimization. MSI and LSI circuits and their applications. Sequential machine fundamentals, analysis, and design.
Prerequisite: ENS 136 or ELT 114

ENS 221 Digital Electronics Laboratory
4 laboratory hours; 2 credits
Design, construction, testing, and evaluation of digital systems. Counters, registers, and multiplexers are used to build combinational circuits and sequential machines,
including a sequence detector. Labs will be simulated prior to hardware construction. NOTE: This course has a material fee.
Prerequisite: ENS 220

ENS 241 Electrical and Electronic Circuits
2 lecture hours, 4 laboratory hours; 4 credits
Prerequisites: PHY 160 and MTH 232

ENS 249 Basic Measurements Laboratory
(Also PHY 309)
4 laboratory hours; 2 credits
Basic instrumentation and precise measurements in engineering applications. Design, construction, testing, and analysis of simple analog systems using the circuit design tools and simulation software. Comparison of measured data to simulated data and reconciliation of discrepancies are emphasized. NOTE: This course has a material fee.
Prerequisite: ENS 241 and ENG 111

ENS 250 Engineering Mechanics
3 hours; 3 credits
Prerequisites: ENS 100 and (PHY 120 and PHY 121 or PHY 230)
Pre- or corequisite: MTH 233

ENS 310 Thermodynamics
(Also PHY 310)
4 hours; 4 credits
Prerequisite: PHY 160 or PHY 230

ENS 316 Dynamics
(Also PHY 316)
4 hours; 4 credits
Prerequisites: ENS 250 and (CSC 270 or CSC 126)
Pre- or corequisite: MTH 330

ENS 331 Digital Signal Processing
4 hours; 4 credits
Prerequisites: ENS 221 or CSC 347, and MTH 232

ENS 336 Computer-Aided Engineering II
2 hours lecture, 4 hours laboratory; 4 credits
Application of numerical analysis and computer simulation to the solution of engineering design problems. Topics include optimization and error analysis; solution of nonlinear equations; systems of algebraic equations; data analysis; regression and interpolation; numerical differentiation and integration; solution of ordinary and partial differential equations; finite difference and finite element methods; and introduction to programming for parallel processing and multimode machine. Theory will be implemented with several projects emphasizing design applications.
Prerequisite: ENS 336

ENS 341 Electrical and Electronic Circuits II
2 lecture hours, 2 laboratory hours; 3 credits
Prerequisites: ENS 241

ENS 345 Solid State Device Fundamentals
2 lecture hours, 2 laboratory hours; 3 credits
Basic properties of solid state, properties of semiconductors, device related elements of quantum mechanics, energy band theory, charge carrier statistics, non-equilibrium charge carriers, charge carrier transport, p-n junction, hetero-junction, diodes, bipolar transistors, field-effect transistors, principles of MOS technology and devices, light-emitting devices, photo-detectors.
Prerequisites: PHY 240
Pre or corequisite: ENS 241

ENS 350 Transport Processes
(Also PHY 350)
4 hours; 4 credits
Introduction to momentum, heat, and mass transfer. Introduction to continuous media, control volume formulation of conservation laws, momentum and energy consideration of fluid flow, heat transfer by conduction and radiation, mass diffusion, analogies and breakdown of analogies among momentum, heat, and mass transfer.
Prerequisites: ENS 310 and (CSC 126 or CSC 270)
Pre- or corequisite: MTH 330

ENS 356 Theory of Electromagnetic Radiation
(Also PHY 356)
4 hours; 4 credits
This course is designed to give the student an understanding of the way in which electromagnetic waves are produced, propagated, scattered, and absorbed. Building on the knowledge obtained from an introductory treatment of electromagnetism, students proceed to a study of
the Maxwell equations in differential form, of wave equation, energy transfer, and the behavior of waves at metallic and dielectric surfaces. Production of radiation by dipoles and its absorption. Antennas, wave guides, and other applications will be discussed.
Prerequisites: PHY 160 and CSC 270
Pre- or corequisite: MTH 330

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites/Coerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENS 359</td>
<td>Mechanical Materials Laboratory</td>
<td>4 hours; 2 credits</td>
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<tr>
<td></td>
<td>Introduction to the measurement of mechanical properties of materials. Testing of materials in tension, compression, shear, and torsion. Experiments with beams and columns. Stress and strain measurement. Exercises involving design, building, testing, and evaluation. NOTE: This course has a material fee. Pre- or corequisite: ENS 380</td>
<td></td>
</tr>
<tr>
<td>ENS 362</td>
<td>Microcontrollers (Also CSC 462)</td>
<td>2 class hours, 4 laboratory hours; 4 credits</td>
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<tr>
<td></td>
<td>Introduction to microcontrollers with an overview of the CPU architecture, instruction set, interface with target board, testing and program development using the structured assembly preprocessor. Interrupts and interrupt timing, analog-to-digital conversion and programming of peripheral chips will be some of the concepts covered in this class. Prequisite: ENS 220 or CSC 346</td>
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</tr>
<tr>
<td>ENS 371</td>
<td>Systems Analysis</td>
<td>2 hours lecture; 2 hours laboratory; 3 credits</td>
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<td></td>
<td>Applications of Convolution. Complete responses of first, second, and higher order-circuits. Transient analysis and frequency response. Analog filter design. Analogy to mechanical, fluid, and thermal systems. Introduction to feedback control system and the application of Laplace transform in analysis of response of dynamic systems. Prerequisites: ENS 241, ENS 310, and MTH 330</td>
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<tr>
<td>ENS 380</td>
<td>Mechanics of Solids</td>
<td>4 hours; 4 credits</td>
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<td></td>
<td>Introduction to engineering applications of static behavior of rigid and deformable systems. Definition of state of stress and strain at a point. Dependence of strain upon stress and temperature. Basic analysis of axial loading, pressure vessels, torsional strain, and stresses. Flexural loading and deflections. Stress-transforming equations and Mohr’s circle. Analysis of statically indeterminate members. Columns and buckling. Application to stress distribution and deformations. Prerequisites: CSC 126 or (CSC 270 and ENS 250) Pre- or corequisite: MTH 330</td>
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<tr>
<td>ENS 383</td>
<td>Electrical Properties of Materials (Also PHY 383)</td>
<td>3 hours; 3 credits</td>
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<td>Electrons in atoms, electrons in crystals, contacts between materials and p-n junctions, bipolar transistors, optoelectronic devices, field-effect transistors, charge transfer devices, integrated circuits, solid state lasers. Photo cells and LEDs. Prerequisites: PHY 240, and CSC 126 or CSC 270</td>
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</tr>
<tr>
<td>ENS 384</td>
<td>Mechanical Properties of Materials (Also PHY 384)</td>
<td>3 hours; 3 credits</td>
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<tr>
<td></td>
<td>Structure of crystalline and noncrystalline solids. Phase transformations. Thermodynamics of multicomponent systems, surfaces, reaction rates, diffusion, and structural change. Mechanical properties, plasticity, strengthening. Ceramics and polymers, electronic and optical properties, thermoelectricity, magnetism. Prerequisites: ENS 310 and CSC 270</td>
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<tr>
<td>ENS 410</td>
<td>Heat Transfer</td>
<td>4 hours; 4 credits</td>
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<tr>
<td>ENS 415</td>
<td>Network Systems Engineering</td>
<td>2 lecture, 2 laboratory hours; 3 credits</td>
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<td>The fundamental building blocks of modern networks, protocols, media, topologies, hardware, network cabling, TCP/IP, Ethernet, wireless transmission, cloud computing and remote access, virtual networks, network risk management, network performance management, industrial and enterprise networking, network troubleshooting. Prerequisite: ENS 221 Pre- or corequisites: ENS 362</td>
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<tr>
<td>ENS 416</td>
<td>Applied Elasticity</td>
<td>4 hours; 4 credits</td>
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<td></td>
<td>Introduction to the theory of elasticity, and application of advanced strength of materials concepts to the design of elements of machines and structures. Prerequisite: ENS 380 Pre- or corequisites: MTH 331 and ENS 336</td>
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<tr>
<td>ENS 420</td>
<td>Analog and Digital Systems Design</td>
<td>4 hours; 4 credits</td>
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<td>Systematic design of integrated digital systems, using combinational, sequential, and MSI/LSI circuit chips. Transistor and FET circuit analysis and design. Operational amplifiers. Design of linear and nonlinear analog systems based on op-amps. Prerequisites: ENS 220 and ENS 241</td>
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<tr>
<td>ENS 322</td>
<td>Signals and Noise</td>
<td>3 hours; 3 credits</td>
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<td>Representation and analysis of continuous time (CT), discrete time (DT) signals and systems and an introduction to random variables and processes. Time domain representations of CT and DT systems, Fourier series representation of CT and DT periodic signals; CT and DT Fourier transform: Time and Frequency characterization of signals and systems; Nyquist sampling theorem. Introduction to probability: random variables, normal distribution; expectation, basic stochastic processes and noise. Prerequisite: ENS 136 Pre or corequisite: MTH 311</td>
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</tr>
</tbody>
</table>
ENS 432  Digital and Analog Communication Systems
2 lecture, 2 laboratory; 3 credits
Prerequisite: ENS 322
Pre or corequisite: ENS 331

ENS 434  Energy Conversion
4 hours; 4 credits
Fundamental principles of conversion of such prime energy sources as chemical, nuclear, and solar into thermal, electrical, mechanical, and other forms of energy. Applications of thermochemical, electrochemical, and electromagnetic devices. Power plants and energy transmission. Direct energy conversion.
Prerequisite: ENS 310

ENS 436  Electric Energy Systems
4 hours; 4 credits
Prerequisite: ENS 241
Pre- or corequisite: MTH 330

ENS 438  Power Plant Design and Analysis
4 hours; 4 credits
Prerequisite: ENS 310

ENS 439  Systems Laboratory
4 laboratory hours; 2 credits
Choice of projects that illustrate the principles, operation, and characteristics of electrical and electromechanical systems. Additional choices involve modulation, transmission, and detection in analog and digital communication systems, and signal processing techniques. Projects will be designed and simulated using appropriate hardware and software tools. Measured data will be compared to simulated results. These projects fulfill the course objective of translation of theory into operating circuitry and systems. NOTE: This course has a material fee.
Prerequisite: ENS 249

ENS 441  Electrical Power Transmission and Distribution
2 lecture hours, 4 laboratory hours; 4 credits, 6 hours
Power and three-phase circuits, power transmission, and transformers. Real and reactive power, power flow and power handling capacity of parallel lines. Long haul high-voltage power transmission. Power distribution between two parallel lines. Phase shift and auto transformers. Power fluctuations under abnormal transmission line conditions. Transmission line faults. Three-phase distribution transformer configurations.
Prerequisite: ENS 241
Corequisite: MTH 330

ENS 446  Computer Architecture
(Also CSC 446)
4 hours; 4 credits
Instruction formats and addressing schemes. Arithmetic and logic unit design. Control unit design: hardwired and microprogrammed. Main memory technology. Virtual, high-speed, associative, and read-only memories. Programmable logic arrays. Computer organizations including stack, parallel, and pipeline. System structures: time sharing, multiprocessing, and networking. Digital communications. Input/output systems; direct memory access.
Prerequisite: CSC 346 or ENS 220

ENS 450  Fluid Mechanics
(Also PHY 450)
4 hours; 4 credits
Fluid properties, fluid statics, buoyancy and stability, fluids in rigid-body motion. Basic fluid equations in differential and integral form, Navier-Stokes equation. Euler equation, Bernoulli equation and engineering applications. Dimensional analysis and similitude. Internal incompressible viscous flow and flow measurement.
Prerequisite: ENS 310
Pre- or Corequisite: MTH 330

ENS 459  Applied Mechanics Laboratory
4 hours; 2 credits
Prerequisite: ENS 249
Pre- or Corequisite: ENS 450

ENS 463  Introduction to Nanotechnology
(also PHY 463)
2 hours lecture, 4 hours laboratory; 4 credits
This is an introductory course on nanotechnology. It covers the physical basics of submicron- and nano-size structures, methods and materials of nanotechnology, characterization of nanostructures and their industrial applications. The course covers (i) mechanical, electronic, and optical properties of nanoscopic systems; (ii) engineering approaches in nano-electro-mechanics; nanoelectronics, and nanophotonics; (iii) practical computer simulation and design of nanodevices; (iv) practical nanofabrication of rudimentary nanodevices with focused ion beams.
Prerequisite: ENS /PHY 485

ENS 464  Embedded Systems Analysis and Design
2 lecture hours, 4 laboratory hours; 4 credits
An introduction to theoretical and experimental concepts in embedded design involving a microcontroller. Course will focus on the concept of engineering analysis and design and serves as an integrating experience where students will build a microcontroller-based project that will be tested and documented in the laboratory. The course will emphasize engineering design subject to realistic constraints in various applications.

Prerequisite: ENS 362 or CSC 462

ENS 466 Telecommunications System Engineering
2 hours lecture; 4 hours laboratory; 4 credits
Communication system overview; signals, noise & impairments; frequency, phase and bandwidth. Analog & digital signal formats; modulation & demodulation techniques. Data communication systems. Transmission lines and RF techniques; fiber optic components & systems. Multiple access for mobile communications.

Prerequisite: ENS 221
Pre- or corequisite: ENS 331

ENS 470 Introduction to Environmental Engineering
4 hours; 4 credits
Principles of systems analysis as applied to environmental problems. Topics to be chosen from air and water pollution, energy utilization, thermal pollution, transportation systems, solid and liquid waste disposal, etc.

Prerequisite: ENS 310

ENS 471 Control Systems
2 hours lecture; 2 hours laboratory; 4 credits
Concepts of feedback control system and the application of Laplace transform in analysis of response of dynamic systems. State space and transfer function models of dynamic systems. System reduction and response analysis. Sensitivity, stability, and steady-state error analysis. Root locus and frequency response (Bode and Nyquist) design methods, compensator design. Computer-aided analysis/design will be emphasized using engineering design and analysis tools.

Prerequisites: ENS 371, ENS 310 and ENS 336

ENS 473 Image and Video Processing in Engineering
4 hours laboratory; 2 hours lecture; 4 credits
An introduction to digital image fundamentals, digital image systems, image enhancement, image transforms, image restoration, image segmentation, and image/video compression techniques with applications in areas of radar, forward-looking infra-red (FLIR), medical imaging, and astrophysics.

Prerequisites: ENS 331, ENS 336

ENS 485 Properties of Materials
(Also PHY 485)
4 hours; 4 credits

Prerequisite: PHY 240

ENS 491 Advanced Engineering Design I
4 laboratory hours; 2 credits
This is the first course of a two-semester sequence dealing with the major design experience, which provides an integration of the analytical techniques of engineering science and mathematics, and their application to engineering design. Topics covered: problem identification, formulation of the problem, proposed solution(s), theoretical foundation and simulation of the proposed solution.

NOTE: This course has a material fee.

Prerequisites: ENS 336 and ENS 362
Pre- or corequisite: ENS 439 or ENS 459

ENS 492 Advanced Engineering Design II
4 laboratory hours; 2 credits
This is the second course of a two-semester sequence dealing with the major design experience. Topics covered: engineering standards; realistic constraints including but not limited to economic, environmental, social, ethical, and political considerations, manufacturability, health and safety, and sustainability; system design adaptation under realistic constraints; and design implementation and demonstration of functionality. NOTE: This course has a material fee.

Prerequisites: ECO 285 or ECO 251, ENS 371, ENS 491

English

(Bachelor of Arts, Minor, Master of Arts, see Graduate Catalog)
Department of English, Building 2S, Room 218
Chairperson and Associate Professor Lee Papa

The Department of English offers a major and a minor in English with options in Literature, Writing, and Linguistics, and a minor in Speech. A concentration in Dramatic Literature is offered in cooperation with the Department of Performing and Creative Arts.

English (BA)
The Department offers four concentrations in the BA degree program in English. They are: Literature, Writing, Linguistics, and Dramatic Literature

Major Requirements: 44-48 credits

Literature Concentration (44-48 credits):
A. Three Required Courses 12 credits
ENL 290 Introduction to Literary Studies 4 credits
ENL 300 British and American Literary Traditions 4 credits
ENL 310 World Literature in Contexts 4 credits
B. Required Literary Coverage Areas  20 credits
Students must take one ENL course in each of the following literary coverage areas, and no course may satisfy more than one coverage area.
NOTE: At least one of the courses must be pre-1800.
1. British literature (including period, movement, or major figure).
2. American literature (including period, movement, or major figure).
3. Literature in translation (including period, movement, or major figure).
4. Literature written by women, American minorities, or writers in Asia (including the Middle East), Africa, Latin America, and the Caribbean (including period, movement, or major figure).
5. Genre or theme. ENL 323 (Coming of Age Narratives), which falls under this category, is strongly recommended for English majors in the Adolescence Education Sequence.
C. Remaining Courses*  12 credits
These twelve credits may be Linguistics (LING 201/LING 300-level or higher), Literature (ENL), Dramatic Literature (ENL), or Writing (ENL).
D. Foreign Language Requirements  0-4 credits
Demonstration of proficiency in a foreign language through the intermediate level, 213 or above.

Writing Concentration (44-48 credits):
A. Three Required Courses  12 credits
ENL 290 Introduction to Literary Studies  4 credits
ENL 300 British and American Literary Traditions 1  4 credits
ENL 310 World Literature in Contexts  4 credits
B. Twenty credits in ENL Writing  20 credits
NOTE: Twelve credits must be taken at the 300- or 400-level.
C. Remaining Courses*  12 credits
These twelve credits may be Linguistics (LING 201/LING 300-level or higher), Literature (ENL), Dramatic Literature (ENL), or Writing (ENL).

Linguistics Concentration (44-48 credits):
A. Three Required Courses  12 credits
LING 301 Introduction to Linguistics  4 credits
LING 302 Phonetics  4 credits
LING 304 English Sentence Structure  4 credits
B. Five additional Linguistics courses (chosen from LING 201/LING 300 level or higher)  20 credits
C. Remaining Courses*  12 credits
These twelve credits may be Linguistics (LING 201/LING 300-level or higher), Literature (ENL), Dramatic Literature (ENL), or Writing (ENL).

Dramatic Literature Concentration (44-48 credits):
A. Three Required Courses  12 credits
ENL 290 Introduction to Literary Studies  4 credits
ENL 300 British and American Literary Traditions 1  4 credits
ENL 310 World Literature in Contexts  4 credits
B. Twelve credits in Dramatic Literature courses. NOTE: One pre-1800 course is required and one post-1800 course is required
ENL 361 The Early Shakespeare  4 credits
ENL 362 The Later Shakespeare  4 credits
ENL 354 English Drama to 1800  4 credits
ENL 355 Modern European Drama  4 credits
ENL 356 American Drama  4 credits
ENL 357 World Drama to 1800  4 credits
ENL 358 World Drama since 1800  4 credits
ENL 359 Contemporary Drama  4 credits
FRN 426 Classical French Drama  3 credits
SPN 345 Spanish Theater  3 credits
SPN 425 The Golden Age of Spanish Drama  3 credits
ENL 272 Playwriting I  3 credits
ENL 373 Craft of Playwriting  3 credits
C. Eight credits of Drama Courses  8 credits
DRA 110 Acting I  3 credits
DRA 141 Theater Production  3 credits
DRA 142 Theater Production Lab  1 credit
DRA 210 Acting II  3 credits
DRA 213 Movement for the Theater  3 credits
DRA 217 Voice/Diction for Performance and Communication  3 credits
DRA 221 Topics on Productions  4 credits
DRA 230 Set Design for the Theater  3 credits
DRA 272 Performance Histories (Ancient to Early Modern)  4 credits
D. Remaining Courses*  12 credits
These twelve credits may be Linguistics (LING 201/LING 300-level or higher), Literature (ENL), Dramatic Literature (ENL), or Writing (ENL).
E. Foreign Language Requirement  0-4 credits
*English majors in the Adolescence Education sequence are required to take ENL 323 and either LING 201 or LING 301. Students in the Literature, Writing, or Linguistics options planning to complete the Adolescence Education sequence may count the required education courses as electives.
Demonstration of proficiency in a foreign language through the intermediate level, 213 or above.

**Electives:** 10-34 credits

**Total Credits Required:** 120

**Honors**

Graduating English majors may apply for graduation with honors in English. Candidates must have a grade point average of 3.5 or higher and must take an independent study with a full-time faculty member, in order to write an honors-quality paper, which will be submitted to the Honors Committee on the dates described below.

The paper submitted need not be a new work; it may be a revision or extension of a paper previously submitted in a course. Research papers, critical papers, and original works of prose or poetry are acceptable. Candidates should ask an English Department faculty member of their choosing to supervise the preparation of the paper; papers submitted to the Honors Committee must have the signature of this faculty member on the title page.

Honors projects should demonstrate superior originality, depth, and research, and critical or creative intelligence. Papers must be technically correct and research papers must have accurate MLA citations.

Students planning to apply for graduation with honors in English are strongly urged to begin preparation of their Honors projects before the semester of their graduation. Papers for majors graduating in January must be submitted to the English Department Office (Building 2S, Room 218) by November 20; papers for majors graduating in June or August by April 1st.

**Department Policy for Independent Studies:**

In order to take an Independent Study, students must have completed a minimum of 24 credits in the major with a minimum GPA of 3.0. Students may take no more than 8 credits of Independent Studies in the major. Applications for Independent Studies must be completed and submitted to the department chair by 5:00 pm on Friday at the end of the first full week of the semester in which the student is to complete the study. No Independent Studies may be offered during the winter and summer sessions.

**Adolescence Education Sequence: 24 Credits**

Students wishing to be recommended by the College for certification must successfully complete the Adolescence Education sequence courses, as well as their academic major. The sequence may be begun in the sophomore year. To complete the sequence in two years it must be begun by the beginning of the junior year. For admission and continuation in the adolescence education sequence and all adolescence education courses students must have a minimum cumulative GPA of 3.0. Please refer to the Education/Adolescence Education section of the Catalog for the Adolescence Education sequence course listing.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EDS 201</td>
<td>Social Foundations of Secondary Education</td>
<td>4 credits</td>
</tr>
<tr>
<td>EDS 316</td>
<td>Psychological Foundations of Education</td>
<td>4 credits</td>
</tr>
<tr>
<td>EDS 301</td>
<td>The Pedagogy of Secondary Language Test</td>
<td>4 credits</td>
</tr>
<tr>
<td>EDS 316</td>
<td>The Secondary School Curriculum in English</td>
<td>4 credits</td>
</tr>
<tr>
<td>EDS 400</td>
<td>Student Teaching in Secondary Education</td>
<td>6 credits</td>
</tr>
<tr>
<td>EDS 401</td>
<td>Reflection and Analysis in Student Teaching in Secondary Education</td>
<td>2 credits</td>
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</table>

**Minor in Linguistics**

At least 12 credits in LING linguistics courses.

**Minor in Literature**

At least 12 credits in ENL literature courses (at least one of which in literature before 1800).

**Minor in Speech-Language Pathology**

Pre-minor requirements

<table>
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<tr>
<th>Course Code</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>LING 301</td>
<td>Introduction to Linguistics</td>
<td>4 credits</td>
</tr>
<tr>
<td>LING 302</td>
<td>Phonetics</td>
<td>4 credits</td>
</tr>
<tr>
<td>One of the following science sequences:</td>
<td></td>
<td>4 credits</td>
</tr>
<tr>
<td>BIO 106</td>
<td>Principles of Biology I</td>
<td>3 credits</td>
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<tr>
<td>BIO 107</td>
<td>Principles of Biology I Lab-</td>
<td>1 credits</td>
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<td>or</td>
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<tr>
<td>BIO 170</td>
<td>General Biology I</td>
<td>3 credits</td>
</tr>
<tr>
<td>BIO 171</td>
<td>General Biology I Laboratory</td>
<td>1 credits</td>
</tr>
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</table>

**Minor Requirements**

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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</tr>
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<tbody>
<tr>
<td>LING 402</td>
<td>Speech Science</td>
<td>4 credits</td>
</tr>
<tr>
<td>LING 420</td>
<td>Anatomy and Physiology for Speech Science</td>
<td>4 credits</td>
</tr>
<tr>
<td>LING 430</td>
<td>Phonetic and Phonological Disorders</td>
<td>4 credits</td>
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</tbody>
</table>

**Minor in Writing**

At least 12 credits in writing (ENL), at least one at or above the 300 level.

**English Courses**

**CUNY Assessment Test in Reading and CUNY Assessment Test in Writing**

Students who fail the CUNY Assessment Test in Reading on entrance are required to take the appropriate 0-level reading course in their first semester.

Students who score 6 on the CUNY Assessment Test in Writing on entrance are required to take the appropriate 0-level writing course within their first 12 equated credits.

Students who score 5 or below on the CUNY Assessment Test in Writing on entrance are required to take the appropriate 0-level writing course within their first eight equated credits.
Students needing remediation are expected to complete the remedial courses that qualify them to enter college-level writing courses in one year, which may include, in addition to two semesters, a pre-freshman and a post-freshman Summer Immersion course and a Winter Intersession. Students for whom English is a second language (ESL students) have two academic years to pass the assessment tests in reading and writing. The tests are administered at the end of most academic interventions that students complete (remedial courses, Summer Immersion, January Intersession, or tutorial workshops).

0-Level Courses in Reading and Writing for Native Speakers of English

0-Level Courses in Reading and Writing for Native Speakers of English
The following courses above are designed for native speakers of English who fail the CUNY Assessment Test in Reading and/or the CUNY Assessment Test in Writing.

ENG 001  Developmental Writing I
4 hours; 0 credit, 4 equated credits
Intensive work in writing with fluency and correctness in a variety of modes, both informal and formal.
Prerequisite: Failing the CUNY Assessment Test in Writing (CAT-W).

ENG 002  Basic Reading
4 hours; 0 credit, 4 equated credits
Intensive work on reading, both fiction and nonfiction. Emphasis on decoding, fluency, and accuracy. Frequent writing.
Prerequisites: Failing the Accuplacer and/or interview and placement by the English Department Developmental Coordinator or designer.

ENG 003  Developmental Writing II
4 hours; 0 credit, 4 equated credits
Intensive work in revising, proofreading, and editing.
Prerequisites: Failing the CUNY Assessment Test in Writing (CAT-W) and/or earning a passing grade in ENG 001.

ENG 004  Developmental Reading
4 hours; 0 credit, 4 equated credits
Introduction to college-level reading and techniques for improving comprehension. Frequent writing.
Prerequisites: Failing the Accuplacer and either earning a passing grade in ENG 002 or interview and placement by the English Department Developmental Coordinator or designer.

ENG 014  Reading for College
4 hours; 0 credit, 4 equated credits
Intensive work in college-level reading and techniques for improving comprehension. Frequent writing. An additional hour each week will be scheduled in the English Department Skills Center for instruction and practice in test taking.

Prerequisites: Failing the Accuplacer and either earning a passing grade in ENG 004 or interview and placement by the English Department Developmental Coordinator or designer.

0-Level Courses in Reading and Writing for Non-Native Speakers of English

0-Level Courses in Reading and Writing for Non-Native Speakers of English
The following courses are designed for those students who are not native speakers of English who fail the CUNY Assessment Test in Reading and/or the CUNY Assessment Test in Writing.

ENG 007  Developmental English for Non-Native Speakers of English
4 hours; 0 credit, 4 equated credits
Intensive work in oral and written expression.
Prerequisites: Failing the CUNY Assessment Test in Writing (CAT-W) and/or interview and placement by the English Department ESL Coordinator or designer.

ENG 008  Developmental Writing for Non-Native Speakers of English
4 hours; 0 credit, 4 equated credits
Intensive work in writing.
Prerequisites: Failing the CUNY Assessment Test in Writing (CAT-W) and/or interview and placement by the English Department ESL Coordinator or designer.

ENG 009  Basic Reading for Non-Native Speakers of English
4 hours; 0 credit, 4 equated credits
Intensive study of the sounds and spellings of English.
Prerequisites: Failing the Accuplacer or interview and/or placement by the English Department ESL Coordinator or designer.

ENG 010  Developmental Reading for Non-Native Speakers of English
4 hours; 0 credit, 4 equated credits
Introduction to college-level reading. Techniques for vocabulary expansion will be stressed.
Prerequisites: Failing the Accuplacer or interview and/or placement by the English Department ESL Coordinator or designer.

ENG 037  Writing for Non-Native Speakers of English
4 hours; 0 credit, 4 equated credits
Practice in writing the complete essay with review of necessary basic skills.
Prerequisites: Failing the CUNY Assessment Test in Writing (CAT-W) and/or interview and placement by the English Department ESL Coordinator or designer.

ENG 039  Reading for Non-Native Speakers of English
4 hours; 0 credit, 4 equated credits
Emphasis on comprehension of longer fictional and textbook material.
Prerequisites: Failing the Accuplacer or interview and/or placement by the English Department ESL Coordinator or designer.

General Education Writing Courses

All students in the College are required to complete ENG 111 Introduction to College Writing and ENG 151 College Writing.

ENG 111 Introduction to College Writing
4 hours; 3 credits
Introduction to and development of critical and analytic writing/reading/thinking skills through class discussion of student work and selected texts. Intensive instruction in techniques for the planning, drafting, revising, and editing of college-level expository essays. Introduction to using the various research options available at the CSI Library. (RECR)
Prerequisite: Successful completion of the CUNY Assessment Test in Reading and the CUNY Assessment Test in Writing

ENG 151 College Writing
4 hours; 3 credits
This course builds on the work of ENG 111. It emphasizes expository and analytic writing and longer papers. Attention to reading, library skills, and research methods. (RECR)
Prerequisites: ENG 111 and passing the CUNY Assessment Test in Reading

ENH Literature Courses

ENH 201 British Literature to 1800
4 hours; 4 credits
A study of British literature in its cultural context from the early periods through the 18th century. (literature) (TALA) NOTE: This course satisfies the College Option.
Prerequisites: ENG 151

ENH 202 British Literature since 1800
4 hours; 4 credits
A study of British literature in its cultural context since the early 19th century. Readings may include literature from Ireland, Scotland, and parts of the British Commonwealth in addition to literature from England. (literature) (TALA) NOTE: This course satisfies the College Option.
Prerequisites: ENG 151

ENH 203 Literary History of the United States to 1855
4 hours; 4 credits
American literary expression, ranging from the histories of the Puritans to the poetry of Walt Whitman, studied in the context of the developing American culture. (literature) (TALA) NOTE: This course satisfies the College Option.
Prerequisites: ENG 151

ENH 204 Literary History of the United States since 1855
4 hours; 4 credits
A history of American literary expression, ranging from the poetry of Dickinson to the novels of Hemingway and Faulkner. Special attention will be given to placing the works in the context of the developing American culture. (literature) (TALA) NOTE: This course satisfies the College Option.
Prerequisites: ENG 151

ENH 205 Classics of European Literature
4 hours; 4 credits
A study of the principal forms, themes, and values of older European literature from Greek times to the Renaissance. (literature) (TALA) NOTE: This course satisfies the College Option.
Prerequisites: ENG 151

ENH 206 Classics of Modern World Literature
4 hours; 4 credits
A study of major works and movements in modern and contemporary world literature. (literature) (TALA) NOTE: This course satisfies the College Option.
Prerequisites: ENG 151

ENH 207 Asian Literatures Before 1900
4 hours; 4 credits
A study of works from Asia before the 20th century organized according to specific themes and issues. (p&d) (TALA) NOTE: This course satisfies the College Option.
Prerequisites: ENG 151

ENH 208 Contemporary Literature
4 hours; 4 credits
An examination of important figures and trends in literature since World War II. (literature) (TALA) NOTE: This course satisfies the College Option.
Prerequisites: ENG 151

ENH 209 Literature and Global Cultures
4 hours; 4 credits
This course will investigate the traditions of cultural production that arose around the world during the last 100 years, focusing on artistic forms including fiction, nonfiction, theater, music, and film. (cont. wld.) (TALA) NOTE: This course satisfies the College Option.
Prerequisite: COR 100, ENG 151

ENH 210 Introduction to Fiction
4 hours; 4 credits
An examination of various types of fiction. Special attention to such elements as plot, character development, setting, theme, point of view, style. (literature) (TALA) NOTE: This course satisfies the College Option.
Prerequisites: ENG 151

ENH 211 Introduction to Poetry
4 hours; 4 credits
A critical study of the variety of poetry, focusing on such recurring themes as the artist, the hero, belief and alienation, self and society, fantasy and reality, and love. (literature) (TALA) NOTE: This course satisfies the College Option.
Prerequisites: ENG 151
ENH 212      Introduction to Drama
(Also DRA 215)
4 hours; 4 credits
An introduction to the variety of forms and themes of
dramatic literature. Major problems treated by dramatists
will be examined, as well as genres: tragedy, comedy,
farce, melodrama, tragicomedy, and the thesis play. (literature) (TALA)
Prerequisites: ENG 151

ENH 213      Introduction to Nonfiction
4 hours; 4 credits
An examination of great works of prose focusing on the
ways they have been used to illuminate the self and soci-
ety. Readings will be drawn from a variety of nonfiction
genres such as autobiography, biography, letters and
journals, journalism, essays, criticism, historical accounts
and analysis, manifestos, theoretical treatises. (literature) (TALA)
NOTE: This course satisfies the College Option.
Prerequisites: ENG 151

ENH 214      Trends in Literature and Film
4 hours; 4 credits
An investigation into the ways in which film has become a
literary genre and what seem to be the future relation-
ships between literature and film. (literature) (TALA)
NOTE: This course satisfies the College Option.
Prerequisites: ENG 151

ENH 215      Literature and Humanities
4 hours; 4 credits
The treatment of major humanistic concerns in literature.
The specific focus of each section will be announced in
the Schedule of Classes. (literature) (TALA) NOTE: This course satisfies the College Option.
Prerequisites: ENG 151

ENH 216      The Bible and Later Literature
4 hours; 4 credits
A study of the Bible as a literary work and its importance
as an influence on later literature. (literature) (TALA)
NOTE: This course satisfies the College Option.
Prerequisites: ENG 151

ENH 217      Introduction to Shakespeare
4 hours; 4 credits
Representative works from across the spectrum of
Shakespeare's career. The course is designed to intro-
duce students to Shakespeare's language, interests, vi-
sions, and styles and to give them a sense of his histori-
cal context. (literature) (TALA) NOTE: This course satisfies the College Option.
Prerequisites: ENG 151

ENH 219      Introduction to Popular Literature
4 hours; 4 credits
A study of popular literary modes such as detective fic-
tion, fantasy, graphic novels, horror, romance, and sci-
ence fiction; this course will introduce students to the
conventions, histories, and theories of one or more gen-
eses of popular literature.
Prerequisites: ENG 151

ENH 221      African American Literature
(Also AAD 221)
4 hours; 4 credits
A sociological examination of African American literature
as it has developed from the dynamic interaction between
Black and White communities and movements within the
Black community. Works by African American authors will
be analyzed with respect to the dominant social forces of
their times and the ideas about the historically persistent
policies of assimilation, separation, or cultural pluralism,
and relevance for Americans of African descent in
their struggle for equality. (literature) (p&d) (TALA)
NOTE: This course satisfies the College Option.
Prerequisites: ENG 151

ENH 222      Women and Literature
(Also WGS 222)
4 hours; 4 credits
A study of works by and about women drawn from a vari-
ety of periods and genres. (literature) (p&d) (TALA)
NOTE: This course satisfies the College Option.
Prerequisites: ENG 151

ENH 224      U.S. Literature: Multicultural Perspectives
4 hours; 4 credits
Literature by and about members of ethnic, racial, reli-
gious, sexual, and other minorities in the U.S. (literature)
(p&d) (TALA) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111, ENG 151

200 Level ENL Writing Courses

ENL 265      Journal I
4 hours; 4 credits
During the semester, each student keeps a journal, in-
cluding fragments of responses to whatever moments and
situations (personal, domestic, social, cultural) about
which he/she wishes to write. Students will be encour-
gaged to develop these fragments and their connections
as an understanding of them deepens. For English ma-
jors and minors, this is designated as a writing course.
Prerequisite: ENG 151

ENL 267      Craft of Creative Writing
4 hours; 4 credits
Craft of Creative Writing introduces students to the liter-
ary conventions of creative nonfiction, fiction, poetry, and
playwriting. The course will explore the elements that set
the genres apart, the elements they share, and the rela-
tionship between reading and writing. Texts will be taken
from the four major genres and used as models for stu-
dents’ creative writing. For English majors and minors,
this is designated as a writing course.
Prerequisite: ENG 151

ENL 272      Playwriting I
4 hours; 4 credits
A course that will start with the writing of short dramatic
scenes and will culminate in the writing of a one-act play
or a single act of a larger play. Attendance at productions
and reading from dramatic literature will be encouraged.
For English majors and minors, this is designated as a writing and dramatic literature course.
Prerequisite: ENG 151

**ENL 274 Introduction to Screen Writing**
(Also CIN 274)
4 hours; 4 credits
Writing for television and film. Class discussions of students' work and the problems of creating in this field. Selected readings. For English majors and minors, this is designated as a writing course.
Prerequisite: ENG 151

**ENL 277 Introduction to Journalism**
(Also COM 277)
4 hours; 4 credits
A general introduction to the principles of journalism. Work on reporting, editing, and layout, and an examination of distribution/feedback systems. For English majors and minors, this is designated as a writing course.
Prerequisite: ENG 151

**ENL 280 Introduction to Women's Written Expression**
(Also WGS 280)
4 hours; 4 credits
A course to develop skill in both imaginative and critical writing based primarily on the students' personal experiences, with some analysis of poetry and short stories written by selected women authors. For English majors and minors, this is designated as a writing course.
Prerequisite: ENG 151

**ENL 281 Writing and Peer Tutoring**
4 class hours, 2 laboratory hours; 4 credits
Provides an in-depth knowledge of the skills of exposition and advanced prose style through the writing and criticism of expository essays. The student will work with students in need of help in the College's English Learning Center for two hours per week in addition to the four hours of classroom work. For English majors and minors, this is designated as a writing course.
Prerequisites: ENG 151, letter of recommendation from the student's ENG 151 instructor

**ENL 290 Introduction to Literary Studies**
4 hours; 4 credits
An introduction to the study of literature and specifically to the ways that people think, talk, and write about literature. It addresses the basic questions of literary study and its vocabulary: What is literature? What are the main kinds of literature? What are the main approaches to the study of literature? The course includes reading and writing about a selection of major works that represent a variety of periods and movements. It offers the rudiments of the knowledge necessary for further study in the field. This course is required for all English majors.
Prerequisite: ENG 151
Pre or corequisite: Any 200 level ENH course

**ENL Literature Courses**

**ENL 300 British and American Literary Traditions 1**
4 hours; 4 credits
A one-semester survey of British and American literature from the Medieval through the Romantic periods. It will include important works from many genres and modes, placing those works in their aesthetic and cultural contexts. This course is required for all English majors. Not open to students who took ENL 376.
Prerequisite or Corequisite: ENG 290

**ENL 301 British and American Literary Traditions 2**
4 hours; 4 credits
A one-semester survey of British and American literature from the early nineteenth century through the twentieth century, including representative texts from at least three modern movements (such as Romanticism, Realism, and Modernism). This course begins where ENL 300 leaves off and includes works from many genres and modes, placing those works in their aesthetic and cultural contexts. For English majors and minors, this is designated as a literature course.
Pre or Corequisite: An ENH 200 level course or ENL 290

**ENL 302 Oral Interpretation of Literature**
4 hours; 4 credits
The oral interpretation of poetry, drama, fiction, and historical speeches. Students will prepare for oral performance by reading aloud, raising questions of meaning, doing library research, writing paraphrases, comparing other interpretations, and consulting an author's other works.
Pre- or corequisite: An ENH 200-level course or ENL 290

**ENL 303 U.S. Fiction, Early National Period to Late Nineteenth Century**
(Also AMS 303)
4 hours; 4 credits
A study of U.S. fiction from the early national period to the late nineteenth century. Works will be examined in relation to literary and other cultural-historical contexts. Topics covered may include the idea of "Americanness," slavery, nationhood, U.S. expansion, gender issues, and industrialism. For English majors and minors this is designated as a literature, American literature, and genre course.
Prerequisite: An ENH 200-level course or ENL 290

**ENL 304 U.S. Fiction, Early North American Literature**
(Also AMS 304/LNG 304)
4 hours; 4 credits
A study of North American literature to 1830 across a variety of genres, authors, and cultural traditions. For English majors and minors this is designated as a literature, American literature, and genre course.
Prerequisite: An ENH 200-level course or ENL 290
ENL 305 Critical Approaches to Children’s Literature
4 hours; 4 credits
An introduction to histories, theories, and criticism of children’s literature. It focuses on the ways the genre conceptualizes childhood, especially in relation to other social categories such as race, ethnicity, class, gender, and/or sexuality. Primary texts that will be examined include picture books, early readers, middle-grade novels, and poetry. For English majors and minors, this is designated as a literature and genre course.
Prerequisite: An ENH 200-level course or ENL 290

ENL 306 Disabilities in Literature and Culture
4 hours; 4 credits
An examination of representations of disability in a variety of genres. Fiction and non-fiction, poetry, aural and visual materials may be used. There may be focus on a particular disability or on a variety of disabilities. The role of ableism in the wider culture, and the intersections of disability with other kinds of minority identities, will be considered.
Prerequisite: ENG 151
Pre or corequisite: An ENH 200-level course or ENL 290

ENL 307 African Literature
4 hours; 4 credits
An introduction to sub-Saharan African literature exploring a variety of regions, authors, genres, and literary traditions. Texts will be discussed in relation to their aesthetic, cultural, historical, and philosophical context, and may include indigenous, anglophone, francophone, and lusophone literatures. Texts not originally in English will be read in English translation. Topics may include: influence of precolonial oral traditions; effect of colonialism and anticolonial struggles; gender and sexuality; social and cultural movements in the twentieth century, e.g. négritude and Pan-Africanism. For English majors and minors, this is designated as a literature, women, American minorities, writers in Asia (including the Middle East), Africa, Latin America, and the Caribbean, world literature, and genre course.
Prerequisite: An ENH 200-level course or ENL 290

ENL 308 Theories of Composition
4 hours; 4 credits
Explore the principal issues and debates in writing pedagogy and scholarship. Students will come to understand rhetoric and composition as a discipline of study, along with the field’s key scholars and areas of study. Additionally, students will learn about major themes in the field of writing studies, such as personal writing, multicultural learners, multimodal composing, and many others. The course will also focus on students’ own writing processes through peer workshops and multiple assignment drafts.
Prerequisite: ENG 151

ENL 309 U.S. Literature in Comparative Contexts
4 hours; 4 credits
This course examines U.S. literature in a comparative, transnational frame by considering U.S. writing with relation to what lies outside national borders and emphasizing the role of international cultures, literatures, and politics in the development of U.S. writing. The course will cover, variously, hemispheric studies, transatlantic studies (beyond U.S.-British), transpacific studies, and African-U.S. studies.
Prerequisite: An ENH 200-level course

ENL 310 World Literature in Contexts
4 hours, 4 credits
An exploration of the literatures of several cultures amid specific historical contexts, as well as a study of cultural differences and similarities and cross-cultural influences. This course examines the literature of polities in at least three disparate geographical regions, during at least two historical periods. It engages students in a practice of literary criticism that sets the texts within particular historical formations, even as students pursue cross-cultural study. This course is requirement for all English majors. Not open to students who have completed ENL 365.
Pre- or corequisite: ENL 290

ENL 312 Theories of Mass Media
4 hours; 4 credits
A survey of contemporary communications theory defining the language, structure, systems, effects, and rhetoric of the mass media. Practical examples in journalism, advertising, publishing, radio, television, and film will be analyzed.
Prerequisite: ENG 151
Pre- or corequisite: An ENH 200-level course or ENL 290

ENL 314 Literature of Ancient Greece and Rome
4 hours; 4 credits
A study of the literature of ancient Greece and Rome. Readings may include texts such as the epic poetry of Homer and Virgil, the drama of Aeschylus and Sophocles, and the lyrics of Sappho and Catullus. Texts will be read in translation. For English majors or minors concentrating in literature, this course fulfills the requirements for literature in translation and literature before 1800. For linguistics, writing, and dramatic literature concentrators, it counts as an elective in the major.
Prerequisite: An ENH 200-level course or ENL 290

ENL 315 Early Celtic Literature
4 hours; 4 credits
Examines older literature of the Celtic languages of the British Isles and northwest Europe. Mythological, heroic, romance, and historical works may be considered. All works will be read in translation. For English majors and minors, this is designated as a literature, literature in translation, and pre-1800 course.
Prerequisite: An ENH 200-level course or ENL 290

ENL 316 Literature of Medieval Europe
4 hours; 4 credits
A study of the literature of the medieval period in Europe. Readings may include texts such as Dante’s Divine Comedy, Boccaccio’s Decameron, the romances of
of Age Narratives

A study of South Asian literatures in English and in English translation. Texts will be discussed in relation to their aesthetic, cultural, historical, economic, and/ or philosophical context and may cover various genres, traditions, and historical periods. For English majors and minors, this is designated as a literature, literature in translation, and women, American minorities, writers in Asia (including the Middle East), Africa, Latin America, and the Caribbean, and world literature course
Prerequisite: An ENH 200-level course or ENL 290

ENL 322 18th-Century English Literature
4 hours; 4 credits
A study of the literature of eighteenth-century England. Readings may include texts such as the novels of Richardson, Burney, and Fielding; the satires of Pope and Swift; and the essays of Addison and Steele. For English majors or minors concentrating in literature, this course fulfills the requirements for British Literature and literature before 1800. For linguistics, writing, and dramatic literature concentrators, it counts as an elective in the major.
Prerequisite: An ENH 200-level course or ENL 290

ENL 323 Coming of Age Narratives
4 hours, 4 credits
This course explores representations of adolescent experiences in a variety of historical and cultural contexts. This course is required for all English majors in the adolescence education sequence. For English majors and minors, this is designated as a literature and genre course.
Pre- or corequisite: An ENH 200-level course or ENL 290

ENL 324 Readings in English Romanticism
4 hours; 4 credits
A study of selected texts by Blake, Wordsworth, Coleridge, Shelley, Byron, Keats, and others. For English majors and minors, this is designated as a literature and British literature course.
Prerequisite: An ENH 200-level course or ENL 290

ENL 325 Readings in Victorian Literature
4 hours; 4 credits
A study of important works of poetry, fiction, and nonfiction of the period by such authors as Tennyson, Hopkins, Dickens, G. Eliot, Arnold, Mill, Hardy. For English majors and minors, this is designated as a literature and British literature course.
Prerequisite: An ENH 200-level course or ENL 290

ENL 326 European Literature of the Romantic Period
4 hours; 4 credits
Readings in European literature and related intellectual texts of the Romantic period with a view toward tracing the emergence of a modern consciousness. Authors may include: Rousseau, Goethe, Schiller, Hölderlin, Hugo, Leopardi, Byron, Wollstonecraft, Pushkin, and Madame de Stael. For English majors or minors concentrating in literature, this course fulfills the requirements for literature

Authors may include Sir Thomas Wyatt, Sir Philip Sidney, Elizabeth I, Emilia Lanier, Christopher Marlowe, Edmund Spenser, and Thomas Nashe. For English majors or minors concentrating in literature, this course fulfills the requirements for British literature and literature before 1800. For linguistics, writing, and dramatic literature concentrators, it counts as an elective in the major.
Prerequisite: An ENH 200-level course or ENL 290

ENL 318 16th-Century English Literature
4 hours; 4 credits
A study of the literature of sixteenth-century England, including works by women and writers inside and outside courtly circles, with an emphasis on non-dramatic texts. Authors may include: Sir Thomas Wyatt, Sir Philip Sidney, Elizabeth I, Emilia Lanier, Christopher Marlowe, Edmund Spenser, and Thomas Nashe. For English majors or minors concentrating in literature, this course fulfills the requirements for British literature and literature before 1800. For linguistics, writing, and dramatic literature concentrators, it counts as an elective in the major.
Prerequisite: An ENH 200-level course or ENL 290

ENL 319 European Literature of the Renaissance and 17th Century
4 hours; 4 credits
Readings in translation of the major works of European literature from the late 14th century through the 17th century. For English majors and minors, this is designated as a literature, literature in translation, and pre-1800 course.
Prerequisite: An ENH 200-level course or ENL 290

ENL 320 17th-Century English Literature
4 hours; 4 credits
A study of the literature of seventeenth-century England. Readings may include works such as Milton’s Paradise Lost, Behn’s Oroonoko, and the poetry of Donne, Herbert, Wroth, Herrick, Cavendish, Marvell, and Dryden. For English majors or minors concentrating in literature, this course fulfills the requirements for British Literature and literature before 1800. For linguistics, writing, and dramatic literature concentrators, it counts as an elective in the major.
Prerequisite: An ENH 200-level course or ENL 290

ENL 321 South Asian Literature
4 hours; 4 credits
A study of South Asian literatures in English and in English translation. Texts in English will be read in translation. For English majors or minors concentrating in literature, this course fulfills the requirements for literature in translation and literature before 1800. For linguistics, writing, and dramatic literature concentrators, it counts as an elective in the major.
Prerequisite: An ENH 200-level course or ENL 290
in translation. For linguistics, writing, and dramatic literature concentrators, it counts as an elective in the major. Prerequisite: An ENH 200-level course or ENL 290

ENL 327 20th-Century American Poetry
4 hours; 4 credits
A survey of twentieth-century American poetry, ranging from early Modernism through the turn of the century. Poets may include such modernist figures as Frost, Eliot, Pound, Moore, W.C. Williams, Stevens, Hughes, and Hart Crane; such mid-century figures as Elizabeth Bishop, Robert Lowell, Gwendolyn Brooks, and Sylvia Plath; and such later figures as Adrienne Rich, James Merrill, John Ashbery, Louise Glück, and Rita Dove. For English majors concentrating in literature, this course fulfills the requirements for American Literature or genre/theme. For linguistics, writing, and dramatic literature concentrators, it counts as an elective in the major. Prerequisite: An ENH 200-level course or ENL 290

ENL 328 Victorian Poetry
4 hours; 4 credits
A survey of British poetry of the Victorian period (from the mid-nineteenth century to the early twentieth century). Poets may include Tennyson, Barrett-Browning, Browning, Christina Rosetti, Hopkins, Arnold, Wilde, Hardy, and W.B. Yeats. For English majors or minors concentrating in literature, this course fulfills the requirements for British Literature or Genre/Theme. For linguistics, writing, and dramatic literature concentrators, it counts as an elective in the major. Prerequisite: An ENH 200-level course or ENL 290

ENL 329 Migration and Diasporas in Literature and Culture
4 hours; 4 credits
This course examines literatures and cultures born of international and national migrations. Students explore ideas relating to immigration, exile, diasporization, globalization, multilingualism, and nationalism through literary, cinematic, and cultural creativity. Examples from world literature and culture are taught with an emphasis on cross-cultural contact and conflict within and beyond national contexts. For English majors and minors, this course is designated as literature, literature in translation, genre/theme, and women, American minorities, writers in Asia (including the Middle East), Africa, Latin America, and the Caribbean. (p&d) (TALA) NOTE: This course satisfies the College Option. Prerequisites: ENG 151 Pre- or corequisite: An ENH 200-level course or ENL 290

ENL 330 The American Renaissance
4 hours; 4 credits
A study of literature of the United States from the 1830’s through the 1860’s across a variety of authors, genres, and cultural traditions. The course will engage in literary questions about changing critical views of “The American Renaissance.” Readings will include texts from genres such as romance, sentimental writing, the slave narrative, the essay, and poetry. For literature concentrators this course fulfills the major requirement for American literature. It counts as an elective in all concentrations in the major. Prerequisite: An ENH 200-level course or ENL 290

ENL 331 The Modernists I
4 hours; 4 credits
A study of the development of the modernist sensibility from the symbolists through World War I. For English majors and minors, this is designated as a literature course and a literature in translation course. Prerequisite: An ENH 200-level course or ENL 290

ENL 332 The Modernists II
4 hours; 4 credits
A study of the modernist sensibility from the 1920s through the Existentialists. For English majors and minors, this is designated as a literature and a literature in translation course. Prerequisite: An ENH 200-level course or ENL 290

ENL 333 Modern Irish Writers
4 hours; 4 credits
A study of Anglo-Irish literature since the Renaissance, with emphasis on Yeats and Joyce. Includes readings from Synge, O’Casey, Behan, O’Flaherty, and John Montague. For English majors and minors, this is designated as a literature and British literature course. Prerequisite: An ENH 200-level course or ENL 290

ENL 334 Modern Russian Literature
4 hours; 4 credits
A study of Russian literature of the 19th and 20th centuries. For English majors and minors, this is designated as a literature and literature in translation course. Prerequisite: An ENH 200-level course or ENL 290

ENL 335 Modern East Asian Literature
4 hours; 4 credits
A study of Literatures of East Asia from the 20th and 21st centuries. Works of major modern writing major modern writings of China, Japan, Korean, Taiwan, and others will be studied across a variety of genres. For English majors and minors, this is designated as a literature, literature in translation, and women, American minorities, writers in Asia (including the Middle East), Africa, Latin America, and the Caribbean, and world literature course. (p&d) (TALA) NOTE: This course satisfies the College Option. Prerequisite: An ENH 200-level course or ENL 290

ENL 336 Postmodern American Literature
4 hours; 4 credits
An introduction to the concept of postmodernism as portrayed in contemporary American culture and literature. The instructors may choose various themes and genres within this rubric. For English majors and minors, this is designated as a literature and American literature course. Prerequisite: An ENH 200-level course or ENL 290

ENL 337 The Comic Vision
4 hours; 4 credits
An examination of comedy as a literary genre. Works will range from classical to modern and will cover the forms of comedy from farce to tragicomedy. For English majors and minors, this is designated as a literature and genre course.
Prerequisite: An ENH 200-level course or ENL 290

**ENL 338**  
Epic and Romance  
4 hours; 4 credits  
Study of these genres, their similarities and dissimilarities, from classical and medieval times to the present. For English majors and minors, this is designated as a literature, literature in translation, genre, and pre-1800 course.  
Prerequisite: An ENH 200-level course or ENL 290

**ENL 339**  
The Tragic Vision  
4 hours; 4 credits  
Themes and images evident in the Western tragic tradition, in all literary genres, will be examined. Relevant criticism will be studied to develop a framework for evaluation. For English majors and minors, this is designated as a literature and genre course.  
Prerequisite: An ENH 200-level course or ENL 290

**ENL 340**  
Autobiography and Biography  
4 hours; 4 credits  
An analysis of the autobiographical genre with attention to its evolution from the Middle Ages to the present. Biography will be discussed in contrast: the form of each, the structure of truth and illusion, the role of memory and imagination, the interaction of past and present, and the relation of the individual to society. For English majors and minors, this is designated as a literature and genre course.  
Prerequisite: An ENH 200-level course or ENL 290

**ENL 341**  
Studies in 18th-Century Fiction  
4 hours; 4 credits  
A study of selected novels by Defoe, Richardson, Fielding, Smollett, Swift, Sterne, Prevost, Voltaire, Diderot, Laclos, Wieland, Goethe, and others who contributed to the development of prose fiction. For English majors and minors, this is designated as a literature, literature in translation, genre and pre-1800 course.  
Prerequisite: An ENH 200-level course or ENL 290

**ENL 342**  
Studies in 19th-Century English Fiction  
4 hours; 4 credits  
A study of major English novelists from Jane Austen through George Gissing. For English majors and minors, this is designated as a literature, British literature and genre course.  
Prerequisite: An ENH 200-level course or ENL 290

**ENL 343**  
Studies in 19th-Century European Fiction  
4 hours; 4 credits  
Readings in European fiction, including Hugo, Balzac, Stendhal, Zola, Turgenev, Dostoyevsky, and Tolstoy. For English majors and minors, this is designated as a literature, literature in translation and genre course.  
Prerequisite: An ENH 200-level course or ENL 290

**ENL 344**  
American Fiction from 1885 until World War II  
4 hours; 4 credits  
An examination of major figures and movements in American fiction from the Civil War until World War II. For English majors and minors, this is designated as a literature, American literature, and genre course.  
Prerequisite: An ENH 200-level course or ENL 290

**ENL 345**  
American Fiction since World War II  
4 hours; 4 credits  
An examination of significant short fiction and novels since World War II together with a consideration of major movements and trends. For English majors and minors, this is designated as a literature, American literature, and genre course.  
Prerequisite: An ENH 200-level course or ENL 290

**ENL 346**  
Modern English Fiction through World War II  
4 hours; 4 credits  
A study of the development of the English novel since 1900 with special attention to such figures as Conrad, Lawrence, Joyce, Woolf, and Graham Greene. For English majors and minors, this is designated as a literature, British literature, and genre course.  
Prerequisite: An ENH 200-level course or ENL 290

**ENL 347**  
Major 20th-Century Novelists  
4 hours; 4 credits  
A study of major modern works of fiction from Europe, Latin America, Asia, and Africa. For English majors and minors, this is designated as a literature, literature in translation, and genre course.  
Prerequisite: An ENH 200-level course or ENL 290

**ENL 348**  
Women Novelists  
(Also WGS 348)  
4 hours; 4 credits  
Significant novels by such women authors as Jane Austen, George Eliot, Elizabeth Gaskell, Willa Cather, Virginia Woolf, Doris Lessing, Jean Rhys. For English majors and minors, this is designated as a literature, genre, and Literature written by women, American minorities, writers in Asia (including the Middle East), Africa, Latin America, and the Caribbean. (p&d) (TALA) NOTE: This course satisfies the College Option.  
Prerequisite: An ENH 200-level course or ENL 290

**ENL 349**  
English and Commonwealth Fiction since World War II  
4 hours; 4 credits
An examination of major figures and trends in English fiction since World War II. Readings will be drawn from such authors as Kingsley Amis, Margaret Atwood, Margaret Drabble, Graham Greene, Doris Lessing, V.S. Naipaul, and Salman Rushdie. For English majors and minors, this is designated as a literature, British literature and genre course.
Prerequisite: An ENH 200-level course or ENL 290

ENL 350  American Poetry through the 19th-Century
4 hours; 4 credits
A survey of American poetry from its origins through the nineteenth century. Poets may include such early figures as the English-born seventeenth-century poet Anne Bradstreet and the African-born eighteenth-century poet Phillis Wheatley, and such nineteenth-century figures as Whitman, Dickinson, Melville, Emerson, Longfellow, Lazarus, E.A. Robinson, and Dunbar. For English majors or minors concentrating in literature, this course fulfills the requirements for American Literature or genre/theme. For linguistics, writing, and dramatic literature concentrators, it counts as an elective in the major.
Prerequisite: An ENH 200-level course or ENL 290

ENL 351  20th-Century British and Irish Poetry
4 hours; 4 credits
A survey of British and Irish poetry of the twentieth century. Poets may include Yeats, Housman, Owen, Auden, Dylan Thomas, Larkin, Stevie Smith, Hill, Gunn, Hughes, Heaney, Mahon, Boland, and Muldoon. For English majors or minors concentrating in literature, this course fulfills the requirements for British Literature or Genre/Theme. For linguistics, writing, and dramatic literature concentrators, it counts as an elective in the major.
Prerequisite: An ENH 200-level course or ENL 290

ENL 352  Major 20th-Century Poets
4 hours; 4 credits
Important 20th-century poets (some in translation) such as Rilke, Lorca, Mistral, Neruda, Ungaretti, Williams, Thomas, and Pasternak. For English majors and minors, this is designated as a post-1800 and genre course.
Prerequisite: An ENH 200-level course or ENL 290

ENL 353  Contemporary Poetry
4 hours; 4 credits
An intensive study of several of the most prominent poets living and writing in America and England today. For English majors and minors, this is designated as a pre-1800 and genre course.
Prerequisite: An ENH 200-level course or ENL 290

ENL 354  English Drama to 1800
(Also DRA 354)
4 hours; 4 credits
Selected works with emphasis on Elizabethan and Jacobean drama (exclusive of Shakespeare), and Restoration and 18th-century drama. For English majors and minors, this is designated as a literature, British literature, genre, pre-1800, and dramatic literature course.
Prerequisite: An ENH 200-level course or ENL 290

ENL 355  Modern European Drama
(Also DRA 355)
4 hours; 4 credits
A study of the major dramatists of the modern European theater, with an emphasis placed upon the development of dramatic styles and themes, as well as the theatrical context in which the plays were produced. For English majors and minors, this is designated as a literature, literature in translation, genre, and dramatic literature course.
Prerequisite: An ENH 200-level course or ENL 290

ENL 356  American Drama
(Also DRA 356)
4 hours; 4 credits
Readings of plays by O'Neill, Williams, Miller, and others who have dramatized the conflicts and predicaments of 20th-century Americans. For English majors and minors, this is designated as a literature, American literature, genre, and dramatic literature course.
Prerequisite: An ENH 200-level course or ENL 290

ENL 357  World Drama to 1800
(Also DRA 357)
4 hours; 4 credits
Selected plays from the Greeks to 1800. For English majors and minors, this is designated as a literature, literature in translation, genre, and dramatic literature course.
Prerequisite: An ENH 200-level course or ENL 290

ENL 358  World Drama since 1800
(Also DRA 358)
4 hours; 4 credits
Selected plays from 1800 to the present. For English majors and minors, this is designated as a literature, literature in translation, genre, and dramatic literature course.
Prerequisite: An ENH 200-level course or ENL 290

ENL 359  Contemporary Drama
(Also DRA 359)
4 hours; 4 credits
Major figures, works, and movements in dramatic literature since World War II, with special emphasis on the last two decades. For English majors and minors, this is designated as a literature, genre, and dramatic literature course.
Prerequisite: An ENH 200-level course or ENL 290

ENL 360  Chaucer
4 hours; 4 credits
An intensive study of Chaucer's dream visions, Troilus and Cressida, and The Canterbury Tales. Works to be read in Middle English. For English majors and minors, this is designated as a literature, British literature, and pre-1800 course.
Prerequisite: An ENH 200-level course
ENL 361 The Early Shakespeare
(Also DRA 361)
4 hours; 4 credits
A selection of Shakespeare's work written before 1600: early and middle comedies, the major histories, the earlier tragedies, and the poems. For English majors and minors, this is designated as a literature, British literature, pre-1800, and dramatic literature course.
Prerequisite: An ENH 200-level course or ENL 290

ENL 362 The Later Shakespeare
(Also DRA 362)
4 hours; 4 credits
A selection of Shakespeare's work written after 1600: the major tragedies, the problem plays, the late comedies and romances. For English majors and minors, this is designated as a literature, British literature, pre-1800, and dramatic literature course.
Prerequisite: An ENH 200-level course or ENL 290

ENL 363 John Milton
4 hours; 4 credits
An intensive study of the major works. For English majors and minors, this is designated as a literature, British literature, and pre-1800 course.
Prerequisite: An ENH 200-level course or ENL 290

ENL 364 Anglophone Arab Literature
(Also LNG 364)
4 hours; 4 credits
A study of Arab literature written in English from the nineteenth century to the present. Works will be examined in relation to literary and other cultural-historical contexts. Topics covered may include: nationalism, colonialism and post-colonialism, cultural hybridity and cosmopolitanism, gender issues, diasporic identities, immigration, and ties to the old and new countries. For English majors or minors concentrating in literature, this course fulfills the requirements for Literature written by women, American minorities, or writers in Asia (including the Middle East), Africa, Latin America, and the Caribbean. For linguistics, writing, and dramatic literature concentrators, it counts as an elective in the major.
Prerequisite: An ENH 200-level course or ENL 290

ENL 365 Arab Literature in Translation
(Also LNG 367)
4 hours; 4 credits
A study of Arabic literature in translation covering a variety of genres, authors, cultural traditions, and historical periods. Works will be examined in relation to literary and other cultural-historical contexts. Topics covered may include: the rise of nationalism, colonialism and post-colonialism, hybrid identities, gender issues, national traumas, and dystopias. For English majors or minors concentrating in literature, this course fulfills the requirements for literature in translation. For linguistics, writing, and dramatic literature concentrators, it counts as an elective in the major.
Prerequisite: An ENH 200-level course or ENL 290

ENL 366 Queer Studies
(Also WGS 368)
4 hours; 4 credits
An introduction to the field of lesbian/gay/bisexual/transgender and queer studies. Readings will be drawn from a variety of literary and critical works that explore sexual identity categories and their meaning in culture. For English majors and minors, this is designated as a literature, genre, and Literature written by women, American minorities, world literature, writers in Asia (including the Middle East), Africa, Latin America, and the Caribbean. (p&d) (TALA) NOTE: This course satisfies the College Option.
Prerequisite: ENG 151
Pre- or corequisite: An ENH 200-level course or ENL 290

ENL 367 The African-American Literary Tradition
(Also AAD 377/AMS 377)
4 hours; 4 credits
A study of the African-American literary tradition engaging such issues as the struggle for human rights and dignity, the definition and representation of African-American culture and identity, and double consciousness. Readings may include works by Frederick
Douglass, Harriet Jacobs, W.E.B. DuBois, Langston Hughes, Zora Neale Hurston, Richard Wright, Ralph Ellison, Gwendolyn Brooks, James Baldwin, and Toni Morrison. For English majors or minors concentrating in literature, this course fulfills the requirements for Literature written by women, American minorities, or writers in Asia (including the Middle East), Africa, Latin America and the Caribbean. For linguistics, writing, and dramatic literature concentrators, it counts as an elective in the major.

Prequisite: An ENL 200-level course or ENL 290

ENL 378 Major English Author I
4 hours; 4 credits
Intensive study of the works of a major English author. For English majors and minors, this is designated as a literature and British literature course.

Prequisite: An ENL 200-level course or ENL 290

ENL 379 Major English Author II
4 hours; 4 credits
Intensive study of the works of a major English author. For English majors and minors, this is designated as a literature, and British literature course.

Prequisite: An ENL 200-level course or ENL 290

ENL 380 Major English Author III
4 hours; 4 credits
Intensive study of the works of a major English author. For English majors and minors, this is designated as a literature and American literature course.

Prequisite: An ENL 200-level course or ENL 290

ENL 381 Major American Author I
4 hours; 4 credits
Intensive study of the works of a major American author. For English majors and minors, this is designated as a literature and American literature course.

Prequisite: An ENL 200-level course or ENL 290

ENL 382 Major American Author II
4 hours; 4 credits
Intensive study of the works of a major American author. For English majors and minors, this is designated as a literature and American literature course.

Prequisite: An ENL 200-level course or ENL 290

ENL 383 Major American Author III
4 hours; 4 credits
Intensive study of the works of a major American author. For English majors and minors, this is designated as a literature and American literature course.

Prequisite: An ENL 200-level course or ENL 290

ENL 384 Major Woman Author I
(Also WGS 384)
4 hours; 4 credits
Intensive study of the works of a major woman author. For English majors and minors, this is designated as a literature and Literature written by women, American minorities, or writers in Asia (including the Middle East), Africa, Latin America and the Caribbean. (p&d) (TALA)

NOTE: This course satisfies the College Option.

ENL 385 Major Woman Author II
(Also WGS 385)
4 hours; 4 credits
Intensive study of the works of a major woman author. For English majors and minors, this is designated as a literature and Literature written by women, American minorities, or writers in Asia (including the Middle East), Africa, Latin America and the Caribbean. (p&d) (TALA)

NOTE: This course satisfies the College Option.

ENL 386 Major Woman Author III
(Also WGS 387)
4 hours; 4 credits
Intensive study of the works of a major woman author. For English majors and minors, this is designated as a literature and Literature written by women, American minorities, or writers in Asia (including the Middle East), Africa, Latin America and the Caribbean. (p&d) (TALA)

NOTE: This course satisfies the College Option.

ENL 387 Major World Author I
(Also LNG 387)
4 hours; 4 credits
Intensive study of the works of a major world author in English translation. For English majors and minors, this is designated as a literature and literature in translation course.

Prequisite: An ENL 200-level course or ENL 290

ENL 388 Major World Author II
(Also LNG 388)
4 hours; 4 credits
Intensive study of the works of a major world author in English translation. For English majors and minors, this is designated as a literature and literature in translation course.

Prequisite: An ENL 200-level course or ENL 290

ENL 389 Major World Author III
(Also LNG 389)
4 hours; 4 credits
Intensive study of the works of a major world author in English translation. For English majors and minors, this is designated as a literature and literature in translation course.

Prequisite: An ENL 200-level course or ENL 290

ENL 390 Studies in Women in Literature and the Arts
(Also WGS 390)
4 hours; 4 credits
This course examines women's literature, art, and film as shaped by national culture, historical circumstances,
class, and age. For English majors and minors, this is designated as a literature, Literature in Translation, Genre, and Literature written by women, American minorities, or writers in Asia (including the Middle East), Africa, Latin America and the Caribbean. (p&d) (TALA) NOTE: This course satisfies the College Option. Prerequisite: An ENH 200-level course or ENL 290

ENL 391 Woman as Hero
(Also WGS 391)
4 hours; 4 credits
Selected readings from Greek drama through current literature, revealing the position and experience of women as heroines. For English majors and minors, this is designated as a literature and Women, American minorities, or writers in Asia (including the Middle East), Africa, Latin America, and the Caribbean and world literature course. (p&d) (TALA) NOTE: This course satisfies the College Option. Prerequisite: An ENH 200-level course or ENL 290

ENL 392 Literature of the African Diaspora
(Also AAD 323)
4 hours; 4 credits
A study of literature by writers of African descent residing outside of Africa that engages such issues of identity formation, cultural hybridity and the legacy of colonialism and/or slavery. For English majors or minors concentrating in literature, this course fulfills the requirement for literature written by women, American minorities, or writers in Asia (including the Middle East), Africa, Latin America and the Caribbean. For linguistics, writing, and dramatic literature concentrators, it counts as an elective in the major. For African and African Diaspora Studies majors or minors, this course provides additional upper-level course offerings in literature. (literature) (p&d) (TALA) NOTE: This course satisfies the College Option. Prerequisite: An ENH 200-level course or ENL 290

ENL 394 Studies in Science Fiction
4 hours; 4 credits
An intensive study of literature that both employs the latest discoveries of technology and medicine and introduces new concepts to the worlds of technology and medicine. Prerequisite: An ENH 200-level course or ENL 290

ENL 395 Mythic Concepts and Archetypes in Literature
4 hours; 4 credits
The presence and influence of Jungian and folkloric concepts in past and current literature. For English majors and minors, this is designated as a literature and genre course. (TALA) (p&d) NOTE: This course satisfies the College Option. Prerequisite: An ENH 200-level course or ENL 290

ENL 396 Studies in Global Literature I
(Also LNG 396)
4 hours; 4 credits
Focus on literature from outside the U.S. and Europe. For English majors and minors, this is designated as a literature, Literature in Translation, and Literature written by women, American minorities, or writers in Asia (including the Middle East), Africa, Latin America and the Caribbean. (p&d) (TALA) NOTE: This course satisfies the College Option. Prerequisite: An ENH 200-level course or ENL 290

ENL 397 Studies in Global Literature II
(Also LNG 397)
4 hours; 4 credits
Focus on literature from outside the U.S. and Europe. For English majors and minors, this is designated as a literature, Literature in Translation, and Literature written by women, American minorities, or writers in Asia (including the Middle East), Africa, Latin America and the Caribbean. (p&d) (TALA) NOTE: This course satisfies the College Option. Prerequisite: An ENH 200-level course or ENL 290

ENL 398 Cultural Variety in the Literature of the United States
4 hours; 4 credits
An examination of literature offering perspectives on the diversity that comprises our American experience: ethnic backgrounds, races, religions, genders, sexual orientations, age groups, etc. Focus of the course varies from semester to semester. For English majors and minors, this is designated as a literature, American literature, and Literature written by women, American minorities, or writers in Asia (including the Middle East), Africa, Latin America and the Caribbean. (p&d) (TALA) NOTE: This course satisfies the College Option. Prerequisite: An ENH 200-level course or ENL 290

ENL 399 Themes in Literature
4 hours; 4 credits
A study of selected themes in literary works. For English majors and minors, this is designated as a literature and genre course. This course may be taken more than once for credit. Prerequisite: An ENH 200-level course or ENL 290

ENL 405 Literature and Music
(Also MUS 405)
4 hours; 4 credits
This course places two art forms, literature and music, in dialogue with each other. The specific focus will be advertised each time the course is taught. Examples include: musical theater and Shakespeare; jazz and Langston Hughes; Early Modern poetry and Bob Dylan. The general aims of the course are to enlarge students’ understanding and appreciation of different but related art forms, and to engage students in a cross-disciplinary dialogue about them. Prerequisites: Any 200-level ENH course or ENL 290 or Music Majors with junior or senior standing

ENL 470 Senior Seminar in Literature
4 hours; 4 credits
Various topics in literature, differing from semester to semester. For English majors and minors, this is designated as a literature course.
Prerequisites: Senior standing and permission of the instructor
Pre- or corequisite: An ENH 200-level course or ENL 290

300 and 400 Level ENL Writing Courses

ENL 370 Craft of Creative Nonfiction
4 hours; 4 credits
This course introduces students to the genre and focuses on literary aspects of nonfiction writing. The course explores elements that are specific to nonfiction as well as aspects that it shares with other literary genres. Texts may cover autobiography, memoir, journals, narrative journalism, and literary essays. Class discussions of students’ work and selected readings. For English majors and minors, this is designated as a writing course. Prerequisite: ENL 265 or ENL 267

ENL 371 Craft of Fiction
4 hours; 4 credits
The course explores the literary conventions that distinguish fiction as a genre. By considering models for their own creative writing, students will learn how to employ basic narrative techniques in creating their own short fiction, the focus of which may include but not be limited to: image, voice, character, setting, and plot. For English majors and minors, this is designated as a writing course. Prerequisite: ENL 267 or ENL 268

ENL 372 Craft of Poetry
4 hours; 4 credits
Students will explore the use of fundamental poetic devices through their own creative writing. The particular undertaking of employing concrete language to create image will be addressed throughout the course. Students will use assigned texts as models for the creation of original poems. Classroom critique of students’ poetry. For English majors and minors, this is designated as a writing course. Prerequisite: ENL 267 or ENL 270

ENL 373 Craft of Playwriting
4 hours; 4 credits
This course provides students an introduction to the various elements of playwriting, including plot and character development, staging, and dialogue creation, as well as an opportunity to explore these elements through their own writing and the writing of others. For English majors and minors, this is designated as a writing and dramatic literature course. Prerequisite: ENL 267 or ENL 272

ENL 412 Broadcast Journalism
(Also COM 412)
4 hours; 4 credits
An introduction to the theory, history, and practice of modern newscasting. The class will also focus on the way that traditional broadcast is converging with digital video production and distribution in the creation of news. Special emphasis will be placed on preparing material for broadcast on radio, television, and online. Readings will explore the economic realities of broadcasting, legal sanctions, and social impact. Students will monitor newscasts, analyze them, and write copy suitable for broadcast. For students wishing to register for the course COM 100 is recommended. Prerequisite: COM/ENL 277 and COM 204

ENL 429 Autobiographical Writing
4 hours; 4 credits
A writing and discussion course for students who, working in various literary genres, will be exploring autobiography as the basis for content. Conferences and group sessions on the student-author’s work. For English majors and minors, this is designated as a writing course. Prerequisite: ENG 151

ENL 430 Creative Writing
4 hours; 4 credits
A series of experiments in the writing of poetry and prose fiction, designed to develop writing skills through extensive practice. Production and publication of selected projects. Class meetings and individual conferences. For English majors and minors, this is designated as a writing course. Prerequisite: ENL 267

ENL 431 Fiction Workshop
4 hours; 4 credits
An advanced workshop, ENL 431 concerns aspects of formal technique in the writing of fiction. Students’ work may be directed toward narrative sequencing, pacing, character development, dialogue, shifts in point-of view and tense, metfiction, and the many structures to which short and long works of fiction adhere and reinvent. For English majors and minors, this is designated as a writing course. Prerequisite or Corequisite: ENL 267 or ENL 371

ENL 432 Poetry Workshop
4 hours; 4 credits
An advanced workshop, this course directs students with a particular emphasis on aspects of form. Students may write poems in free-verse and traditional forms, which may include the sonnet, the sestina, and the villanelle. Students will use assigned texts as models for the creation of original poems. The course will involve classroom critique of students’ poetry. For English majors and minors, this is designated as a writing course. Prerequisite or Corequisite: ENL 267 or ENL 372

ENL 433 Nonfiction Writing
4 hours; 4 credits
A course intended to develop the student’s skill in expository and critical writing. Attention will be given to the problems of structure and style with a view to writing with more persuasiveness. For English majors and minors, this is designated as a writing course. Prerequisite: ENG 151
ENL 434  Creative Nonfiction Workshop
4 hours; 4 credits
An advanced workshop in creative nonfiction. The class may focus on the outline and structure of nonfiction stories; on reporting techniques; choosing a narrative voice and strategy; and on crafting leads, overtures, and transitions. The workshop will also require substantial readings of nonfiction pieces. Texts may cover: autobiography, memoir, journals, narrative journalism, and literary essays. Class discussion of students' work. For English majors and minors, this is designated as a writing course.
Prerequisite: ENL 267 or ENL 370

ENL 435  Playwriting Workshop
4 hours; 4 credits
An advanced workshop in playwriting. Skills developed in this course include the creation of more complex plots, dialogue, and characters, as well as greater expertise to critique the works of others with more depth and attention to detail. For English majors and minors, this is designated as a writing course.
Prerequisite or Corequisite: ENL 267 or ENL 373

ENL 436  Screen Writing
(Also CIN 436)
4 hours; 4 credits
Study of the craft of constructing the screenplay, treatment, synopsis, and shooting script. The student will work on the problems of creating the original film script as well as adapting a piece of existing material for the screen. For English majors and minors, this is designated as a writing course.
Prerequisite: CIN/ENL 274

ENL 437  Writing in the Business World
4 hours; 4 credits
Communications, reports, descriptive statements, promotional writing, etc., which form the basis for written work in business, advertising, and industry. For English majors and minors, this is designated as a writing course.
Prerequisite: ENG 151

ENL 438  Newspaper Reporting
(Also COM 438)
4 hours; 4 credits
An introduction to the theory, history, and practice of modern reportorial journalism. The class will focus on the way that traditional newswriting is converging with other media forms online, yet remains a skill of its own with specific needs, ethics, and best practices. For students wishing to register for the course COM 100 is recommended. For English majors and minors, this is designated as a writing course.
Prerequisite: COM/ENL 277 and COM 204

ENL 440  Magazine Writing
4 hours; 4 credits
A writing and discussion course for students who want to break into the magazine publishing world. Writing for popular, specialized, little, and broad-circulation magazines will be covered, as well as the broader aspects of the publishing market. Conferences and group sessions on the student-author’s work. For English majors and minors, this is designated as a writing course.
Prerequisite: ENG 151

ENL 441  Writing about Media
4 hours; 4 credits
A writing and discussion course for students who are interested in producing articles and books concerning films, records, and television. Conferences and group sessions on the student-author’s work. For English majors and minors, this is designated as a writing course.
Prerequisite: ENG 151

ENL 442  Women’s Written Expression
(Also WGS 442)
4 hours; 4 credits
A seminar to develop skills in both imaginative and critical writing, incorporating an analysis and comparison of the stylistic developments of women authors. For English majors and minors, this is designated as a writing course.
Prerequisite: ENG 151

ENL 445  Journalism and Society
(Also COM 445)
4 hours; 4 credits
Learning to "read" and write the news. Analysis of the ways in which news stories define our understanding of society. The course will consider both the effect of print and broadcast journalism on politics, values, and social norms and the pressures on the press, which define its values. Topics vary from term to term. For English majors and minors, this is designated as a writing course.
Prerequisite: (COM/ENL 277 and COM 204) and (COM 412/ENL 412 or ENL 438/COM 438 or COM 446)

ENL 465  Writing for the Media
(Also COM 465)
4 hours; 4 credits
Developing skills in writing for traditional electronic media (such as radio and television) as well as new media (such as the Internet). This writing-intensive course emphasizes the translation of ideas into written text or spoken dialogue appropriate to the medium, genre, and target audience, as well as treatments, proposals, and other forms of pre-production writing. For English majors and minors, this is designated as a writing course.
Prerequisites: A 200-level COM course and ENG 151

ENL 470  Senior Seminar in Literature
4 hours; 4 credits
Various topics in literature, differing from semester to semester. For English majors and minors, this is designated as a literature course.
Prerequisites: Senior standing and permission of the instructor
Pre- or corequisite: An ENH 200-level course or ENL 290

ENL 475  Writing for Advertising and Public Relations
(Also COM 475)
4 hours; 4 credits
An introduction to the techniques of developing concepts and writing copy for advertising in print and broadcast media, and public relations material such as press releases, newsletters, brochures, and publicity material. The course analyzes advertising, public relations, and other corporate communications tactics in terms of their target audience, message, and effectiveness, as well as the channels of communication. Students will be assigned a number of writing projects including copywriting, concept development proposals, press releases, and newsletter articles. For English majors and minors, this is designated as a writing course.
Prerequisites: COM 332

ENL 480      Studies in Advanced Journalism
(Also COM 480)
4 hours; 4 credits
Analysis of the techniques required for good feature writing, magazine writing, personal journalism, investigative reporting, interviewing, etc. Overview of the changing journalism environment and the techniques and skills necessary to build a successful journalism organization. Overview of the job and skills of a news editor. Emphasis amongst these different options varies from term to term. For English majors and minors, this is designated as a writing course.
Prerequisite: COM/ENL 277, COM 204 and (COM/ENL 412 or COM/ENL 438 or COM 466)

LING Linguistics Courses
See Linguistics section of the catalog.

LING 101      Linguistic Diversity
3 hours; 3 credits
An overview of linguistic diversity in the world today, and the factors that influence it. Questions asked include: How do languages originate? How are different languages related? How do social, cultural, and biological factors both contribute to and limit linguistic diversity? Major themes in this course will be language endangerment (the likely disappearance of 90% of human languages in the next 100 years) and the parallels between linguistic diversity and biodiversity.
Prerequisites: ENG 111

LING 201      Introduction to Language
4 hours; 4 credits
This course is an introduction to the study of language. It explores the following relationships: language and society; language and culture; language and thought; language and biology. (literature) (TALA)
Prerequisite: ENG 151

LING 301      Introduction to Linguistics
4 hours; 4 credits
The scientific study of language: sounds, grammar, words, animal communication, language families, etc. Special consideration is given to the dialect of New York City. For English majors and minors, this is designated as a linguistics course.
Prerequisite: ENG 151

LING 302      Phonetics
4 hours; 4 credits
An introduction to the articulation and basic acoustics of speech sounds used in the world's languages, including English in comparison with other languages. This course includes extensive practice in speech-sound perception, phonetic transcription using the International Phonetic Alphabet (IPA), and a basic introduction to phonemic analysis.
Pre- or corequisite: LING 301

LING 303      Phonology I
4 hours; 4 credits
An introduction to phonology, the analysis of linguistic sound systems, applied primarily to varieties of English and closely related languages. Emphasis is on learning how to examine sound patterns in terms of rules, features, and underlying forms. For English majors and minors, this is designated as a linguistics course. NOTE: It is recommended that students complete LING 302 prior to enrolling for this course.
Prerequisite: LING 301

LING 304      Syntax I
4 hours; 4 credits
This course is an introduction to syntax, the study of phrase structure in human language. Through examination primarily of English varieties, students will develop various skills in scientific analysis, such as: the identification of evidence to support hypotheses; the ability to deduce the nature of lexical and syntactic categories (such as noun, verb, noun phrase, subject, object); and the ability to recognize the abstract properties, elements, and operations which give rise to e.g. syntactic ambiguity, recursion, and the variety of surface forms we recognize as distinct “constructions,” such as active vs. passive, interrogatives, and relative clauses.
Prerequisite: LING 301

LING 305      Second Language Learning
(Also LING 426)
4 hours; 4 credits
Introduction to the study of second language learning, with focus on understanding the nature of the underlying grammatical processes involved, and the ways in which second language learning by adults differs from first language acquisition by children.
Prerequisites: LING 301

LING 350      The Structure of Words
4 hours; 4 credits
An introduction to linguistic morphology, the study of word structure and word formation in languages of the world. This course will explore how words can be analyzed into smaller units of meaning and sound, the semantic properties of words, the origin of English words, and how word structure interacts with sound and sentence structure. For English majors and minors, this is designated as a linguistics course.
Prerequisite: ENG 151

LING 360      Word and Sentence Prosody
4 hours; 4 credits
An introduction to the prosodic structure of human languages. The course will provide an overview of stress, tone, and pitch accent systems (at the word-level), as well as rhythmic and melodic organization (at the sentence-level) from the perspective of Intonational Phonology. Note: LING 302 is recommended prior to enrolling in this course.
Prerequisite: LING 201 or LING 301

LING 370 Language Change
4 hours; 4 credits
How languages change and why, using the English language and the Indo-European family as examples. For English majors and minors, this is designated as a linguistics course.
Pre- or corequisite: LING 301

LING 380 Sociology of Language
(Also SOC 427)
4 hours; 4 credits
Areas of discussion include language and class, language and sex, language and race, and language and ethnicity. For English majors and minors, this is designated as a linguistics course.
Prerequisite: ENG 151

LING 390 History of English
4 hours; 4 credits
How the sounds, grammar, spelling, and words of English came to be the way they are. For English majors and minors, this is designated as a linguistics course.
Prerequisite: ENG 151

LING 402 Speech Science
4 hours; 4 credits
An introduction to the experimental methods used to study speech production and perception. Using the facilities of the CSI Speech Laboratory, students will learn to analyze speech acoustically and physiologically. This course will also involve research design and the writing of research papers. For English majors and minors, this is designated as a linguistics course. Note: It is recommended that students complete LING 302 prior to enrolling in this course.
Prerequisite: LING 301

LING 404 Syntax II
4 hours; 4 credits
An introduction to modern syntactic theory. Through the study of a variety of grammatical phenomena and processes across different languages, students will gain an understanding of one of the central enterprises in linguistics, namely the development of a general theory of the rules governing the syntactic structures of particular languages, and of the general syntactic principles governing all natural languages. Students will learn to engage in scientific analysis, and will become proficient in syntactic argumentation.
Prerequisite: LING 304

LING 405 Semantics and Pragmatics
4 hours; 4 credits
An introduction to linguistic meaning, exploring how sentences obtain their meanings from both structure and from context. Other topics addressed include lexical (word) meaning, discourse meaning, and intonational meaning.
Prerequisite: LING 304

LING 410 First Language Acquisition
4 hours; 4 credits
An examination of how typically-developing children naturally acquire their first language, surveying what is known about grammatical development at the levels of phonetics, phonology, morphology, and syntax. Both theory and data on child language acquisition are discussed, with special emphasis on developmental universals.
Prerequisite: LING 302 and LING 304

LING 411 Psycholinguistics
4 hours; 4 credits
An introduction to issues in language comprehension and production, with emphasis on how linguistic theory guides experimental investigation. Topics include speech perception, word segmentation, word recognition, lexical processing, and syntactic parsing. This course incorporates both lab work and quantitative methodology.
Prerequisite: (LING 302 or LING 303) and LING 304

LING 412 Sign Language Linguistics
4 hours; 4 credits
A cross-linguistic survey of the structure of sign languages. Major emphases include the exploration of (a) how various areas of linguistic theory (e.g., phonetics, phonology, morphology, syntax) apply to sign languages, and (b) structural aspects that are specific to the world’s sign languages. The course will also include discussion of the acquisition of sign languages, as well as their sociolinguistic and psycholinguistic aspects. Knowledge of a sign language (e.g., Nicaraguan Sign Language, Swedish Sign Language, American Sign Language, etc.) is not required for this course.
Prerequisite: (LING 302 or LING 303) and LING 304

LING 420 Anatomy and Physiology for Speech Science
4 hours; 4 credits
An introduction to the typically-developed anatomy and physiology of the structures involved in the production of human speech and in hearing. Topics include the mechanisms of respiration, phonation, articulation, and audition.
Prerequisite: LING 302; (BIO 106 and BIO 107) or (BIO 170 and BIO 171)

LING 430 Phonetic and Phonological Disorders
4 hours; 4 credits
An introduction to major disorders of linguistic speech sounds, both phonetic (articulatory) and phonological (cognitive) in nature. The course highlights theories of description and assessment, and linguistic approaches to intervention.
Prerequisite: LING 302
Environmental Science
Department of Engineering Science and Physics
Building 1N, Room 226
Chairperson and Professor Neophytos (Neo) Antoniades

ESC 110 Meteorology and Climatology
3 credits; 3 hours
Atmospheric composition and structure related to weather events and their impact on humans and ecosystems. Explore basic physical laws of energy and motion to explain temperature, precipitation, atmospheric circulation and storms. Earth’s climate system and atmospheric energy balance. (FSWR) (STEM)
Prerequisite: MTH 123 or an appropriate score on the CUNY Mathematics Test
Corequisite: ESC 111

ESC 111 Meteorology and Climatology Laboratory
2 hours; 1 credit
Exercises in weather monitoring, climate zones and interpretation of storms and other meteorological events. Interpretation of models and data sets relating to anthropogenic changes to atmospheric chemistry and climate. (STEM)
Corequisite: ESC 110

ESC 302 Hydrology
3 hours; 3 credits
The hydrologic Cycle, precipitation, evapotranspiration, infiltration and soil water processes, runoff and stream processes, hydrologic data analysis, uniform open channel flow, human impacts on the hydrologic cycle, practical exercises on conducting and reporting hydrologic studies.
Prerequisite: GEO 115, GEO 116, (MTH 230 or MTH 231)

ESC 402 The Science of Global Warming
3 hours; 3 credits
Fundamental principles of the climate system, structure and circulation of the atmosphere and oceans, radiation balance, the greenhouse effect, anthropogenic climate forcings, role of the sun/volcanoes/greenhouse gases/aerosols/land use, climate sensitivity, climate variability, the carbon cycle, global temperature change from instrumental records, climate reconstructions of the past 1000 years, climate from glaciers/boreholes/tree-rings, climate modeling, future predictions, sea level change, the Intergovernmental Panel on Climate Change.
Prerequisite: ESC 110, ESC 111, GEO 310

French

French Minor
Minor Requirements:
At least 12 credits of courses in French at the 200 level or above.

French Courses
All students with prior training in French must take a proficiency examination to determine placement at an appropriate level.

FRN 101 French Conversation I
2 hours; 2 credits
Practical French for business, community relations, travel, and simple technical application. For beginners with no previous knowledge of the language. Regular attendance in the World Languages and Literatures Media Center is required.
Prerequisite: FRN 101 or equivalent

FRN 102 French Conversation II
2 hours; 2 credits
A continuation of FRN 101. Regular attendance in the World Languages and Literatures Media Center is required. Not open to students who have completed FRN 112.
Prerequisite: FRN 101 or equivalent

FRN 112 Basic French I
3 hours; 3 credits
A beginning course in the fundamentals of expression and communication for those who have had no previous work in the language. Regular attendance in the Modern Languages Media Center is required. Not open to students who have completed FRN 112.
Prerequisite: Passing the CUNY Assessment Test in Reading and Writing

FRN 113 Basic French II
4 hours; 4 credits
A continuation of FRN 112 or FRN 113. Regular attendance in the World Languages and Literatures Media Center is required. (foreign lang.). Not open to students who have completed FRN 112.
Prerequisite: Passing the CUNY Assessment Test in Reading and passing the CUNY Assessment Test in Writing

FRN 114 Basic French II
4 hours; 4 credits
A continuation of FRN 112 or FRN 113. Regular attendance in the World Languages and Literatures Media Center is required. (foreign lang.) NOTE: This course satisfies the College Option.
Prerequisites: FRN 112 or FRN 113 or equivalent; passing the CUNY Assessment Test in Reading and passing the CUNY Assessment Test in Writing

FRN 208 French for Native Speakers
4 hours; 4 credits
For students with fluency in spoken French but lacking experience in writing and reading the language.
FRN 213  Continuing French I  
4 hours; 4 credits  
Grammar review and more intensive training in the fundamentals of expression and communication. Regular attendance in the World Languages and Literatures Media Center is required. (foreign lang.)  
Prerequisite: FRN 114 or equivalent

FRN 215  Continuing French II  
4 hours; 4 credits  
A continuation of FRN 213 with stress on written and oral composition and on selected cultural and literary readings of intermediate difficulty. Regular attendance in the World Languages and Literatures Media Center is required. (foreign lang.)  
Prerequisite: FRN 213 or equivalent

FRN 313  Advanced Communication Skills  
4 hours; 4 credits  
Refinement of written and oral expression through composition, translation, oral reports, and critical study of the French grammar based on the analysis of selected literary readings of advanced difficulty. Regular attendance in the World Languages and Literatures Media Center is required. (literature) NOTE: This course satisfies the College Option.  
Prerequisite: FRN 215 or equivalent

FRN 325  French Civilization  
4 hours; 4 credits  
The art, literature, history, and political and social systems of the French-speaking world. A panoramic approach designed to provide a basic knowledge of French civilization.  
Prerequisite: FRN 313 or equivalent

FRN 340  An Introduction to the Literature of France  
4 hours; 4 credits  
A chronological survey of the literature of France from the Middle Ages to the present. (literature) (TALA) NOTE: This course satisfies the College Option.  
Prerequisite: FRN 313 or equivalent

FRN 350  The Feminist Challenge in French Literature  
(Also WGS 353)  
4 hours; 4 credits  
A study of the most important women writers in French literature, focusing primarily on selected works of Christine de Pisan, Marguerite de Navarre, Madame de Staël, George Sand, Colette, Simone de Beauvoir, Françoise Sagan, Nathalie Sarraute. Taught in French. (literature) (TALA) NOTE: This course satisfies the College Option.  
Prerequisite: FRN 313 or equivalent

FRN 426  Classical French Drama  
(Also DRA 426)  
4 hours; 4 credits  
Plays of Corneille, Racine, Molière, with special emphasis on the continuing role of Molière in the world’s theater. (literature) (TALA) NOTE: This course satisfies the College Option.  
Prerequisite: FRN 313 or equivalent for those doing readings and assignments in French; ENG 151 or equivalent for those doing readings and assignments in English

FRN 450  Contemporary French Literature  
4 hours; 4 credits  
An analysis of representative masterpieces of 20th-century French literature from Proust, Gide, and Malraux to Sartre, Camus, and Robbe-Grillet. (literature) (TALA) NOTE: This course satisfies the College Option.  
Prerequisite: FRN 313 or equivalent

FRN 465  French Existentialist Literature  
4 hours; 4 credits  
A study of French existentialist literature through the works of Sartre, Simone de Beauvoir, Proust, and Camus. (literature) (TALA) NOTE: This course satisfies the College Option.  
Prerequisite: FRN 313 or equivalent

Geography  
(Bachelor of Arts, Minor)  
Department of Political Science and Global Affairs  
Chairperson and Professor Richard Flanagan  
Co-Coordiators: Associate Professor Peter Kabachnik and Associate Professor Cary Karacas, Marchi Hall (2N), Room 230

Geography (BA)  
This program offers students a study of the complex forces that interact to shape the world allowing them to develop an understanding and appreciation of the diversity of the earth’s physical and cultural environments, as well as the mutually reinforcing interrelationships between people and places on a variety of scales. For continuation and graduation from the Bachelor of Arts degree program in Geography, students must maintain a minimum cumulative GPA of 2.5.

Geography Major Requirements: 42-46 credits

Pre-Major Requirements: 3 credits

GEG 100  Introduction to Geography  3 credits

or

GEG 101  World Regional Geography  3 credits

Major Requirements: 39-43 credits

A minimum of 16 credits of geography must be taken at the 300 level or above.

A.  
GEG 102  People and Their Environment  3 credits

GEG 212  Introduction to Geographic Information Systems (GIS)  4 credits

GEG 400  Geographical Imaginations  4 credits

At least two geography courses designated as topics courses.  
At least one geography course designated as a regional course.  
At least one geography course designated as an environmental course.
B. An additional 12 credits of geography courses at the 300 level or higher. Geography Internship or Geography Independent Study at the 500-level may be used to satisfy this requirement. Two courses (8 credits) may be taken outside the Geography major with the permission of the Geography advisor.

C. Foreign Language Requirement 0-4 credits Demonstration of proficiency in a foreign language through the intermediate level, 213 or above.

**Total Credits Required: 120**

NOTE: Geography Independent Study (GEG 591-594) and Geography Internship (GEO 598-99) may be applied toward the major with the permission of a faculty advisor.

**Honors**

To graduate with honors in Geography a student must have a 3.5 grade point average in geography courses and must complete a thesis or research project determined by the student under the direction of a faculty advisor.

**Geography Minor**

Minor Requirements: 15 credits

One of the following courses: 3 credits

- GEG 100 Introduction to Geography
- GEG 101 World Regional Geography
- GEG 102 People and Their Environment

At least 12 credits at or above the 200 level 12 credits

**Geography Courses**

**GEG 100 Introduction to Geography**

3 hours; 3 credits

An overview to the field of geography. It approaches the central issues of the discipline through a systematic fashion, exploring the basics of such themes as: physical geography, climate change, political geography, cultural geography, urban geography, economic geography, agriculture, globalization, and resources and development. (social science) (FWGR)

**GEG 101 World Regional Geography**

3 hours; 3 credits

Introduction to the major world geographic regions and countries with emphasis on population, place, location, environment, and economic development. (social science) (FWGR)

**GEG 102 People and Their Environment**

3 hours; 3 credits

An introduction to the Earth as home to human beings. Course first surveys physical geography in order to understand various natural processes (weather and climate, formations of soils and biological systems, hydrologic cycle) that allowed for emergence of human civilization.

The second part examines the advent of the Holocene, the current epoch in which human beings are transforming the planet. Required for Geography majors, open to all students.

**GEG 212 Introduction to Geographic Information Systems (GIS)**

4 hours; 4 credits

An introduction to the Geographic Information Systems (GIS) production process from data modeling and acquisition to editing, analysis, and cartographic output. It is divided between lectures that introduce the theory and implications of GIS and lab exercises to familiarize students with the many applications of the software. Required for Geography majors, open to all students. (social science) NOTE: This course satisfies the College Option. Prerequisites: ENG 111

**GEG 215 The Geography of Latin America and the Caribbean**

4 hours; 4 credits

Provides an introduction to the physical and human geography of Latin America and the Caribbean. After a focus on climatic and geomorphological features, biogeography, and distribution of natural resources, the course will cover human geographic features including cultural landscapes, historical geographies, demography, industrialization, urbanization, and globalization. For geography majors, this is designated as a regional course. Prerequisites: ENG 151 and COR 100

**GEG 216 Geography of Africa**

(Also AAD 216)

4 hours; 4 credits

Provides an introduction to the physical and human geography of Africa. After a focus on climatic and geomorphological features, biogeography, and distribution of natural resources, the course will cover human geographic features including cultural landscapes, historical geographies, demography, industrialization, urbanization, and globalization. For geography majors, this is designated as a regional course. Prerequisites: ENG 151 and COR 100

**GEG 220 Geography of Western Europe**

4 hours; 4 credits

Demographic, economic, and political effects on the nations of Western Europe in the intraregional variations in such fundamental geographic factors as geomorphic position, climate, soils, minerals, and elevation. Emphasis on selected nations in the context of 20th-century industrial development. For Geography majors this is designated as a regional course. Prerequisite: ENG 111 and COR 100

**GEG 221 Geography of East Asia**

4 hours; 4 credits

An introduction to the physical and human geography of China, Japan, and Korea. After a focus on climatic and geomorphological features, biogeography, and distribution of natural resources, the course will cover human geographic features including cultural landscapes, demography, industrialization, urbanization, and globalization. For Geography majors, this is designated as a re-
GEG 222  Geography of the United States  
(Also AMS 220)  
4 hours; 4 credits  
This course explores the geographic variety of the United States. The country’s physical characteristics are regionally diverse and provide an array of resources. Different populations have put them to use in various ways. The course traces who lives where, why, what they have found there, what have they done with it. Emphasis is placed on the contrasting threads of regional variation and national homogenization. For Geography majors this is designated as a regional course. (social science)  
NOTE: This course satisfies the College Option.  
Prerequisite: ENG 111 or COR 100

GEG 223  American Landscapes  
(Also HST 223)  
4 hours; 4 credits  
A study of American landscapes through historical geography and history. This course examines the making of American landscapes, including not only the “natural” processes but also the social, cultural, and ideological forces that have shaped them. For Geography majors this is designated as a regional course. (social science)  
NOTE: This course satisfies the College Option.  
Prerequisites: ENG 111, COR 100, or any college-level history course.

GEG 225  Cultural Geography  
4 hours; 4 credits  
This course will provide a global context to explore various cultural issues while highlighting the role of human impact on places, landscapes, and the planet. Students will develop an understanding of the basic concepts of cultural geography, including those related to population, migration, religion, ethnicity, urbanization, agriculture, nature and environment, resource use, and territoriality. For Geography majors this is designated as a topics course. (social science) (cont. wld.)  
NOTE: This course satisfies the College Option.  
Prerequisites: ENG 115 and COR 100

GEG 227  The Geography of Drugs  
(Also AMS 227)  
4 hours; 4 credits  
This course combines cultural and economic geography to examine the illicit drug trade. Students will develop an understanding of the global nature of the commodity chains associated with specific major drugs, the ecological and social impact on producing regions, and the operation of drug-trafficking organizations and drug markets here in the U.S. For Geography majors this is designated as a topics course.  
Prerequisite: ENG 151 and COR 100

GEG 250  Conservation and Humanity  
4 hours; 4 credits  
Analysis of the nature and extent of pollution and depletion of essential resources of humankind, with emphasis on food, water, and oxygen. Study will include inquiry into economic, legal, and political problems of control, detection, and prevention of pollution and depletion of resources. For Geography majors, this is designated as an environmental course. (social science) (cont. wld.)  
NOTE: This course satisfies the College Option.  
Prerequisites: ENG 151, COR 100

GEG 252  Economic Geography  
(Also ECO 252)  
4 hours; 4 credits  
Examination of how geographic factors influencing economic activity, and culture, technology, resources, location, and labor intersect to produce different economic environments, and how globalization and local conditions interact. For Geography majors this is designated as a topics course. (social science)  
NOTE: This course satisfies the College Option.  
Prerequisites: ENG 151, COR 100

GEG 260  Urban Geography  
4 hours; 4 credits  
A study of urbanization, urban growth, and urban form, both within the metropolitan area and as part of a system. The course examines how societies shape space to employ their human and physical resources to develop their urban landscapes and how old patterns are replaced by new ones as a result of economic, political, and social transformations. The course will cover urban geography in several societies. For Geography majors this is designated as a topics course. (social science)  
NOTE: This course satisfies the College Option.  
Prerequisite: ENG 151 and COR 100

GEG 264  Political Geography  
(Also POL 264)  
4 hours; 4 credits  
All politics are embedded in geographical space. This course examines the ways in which people have territorially arranged the Earth’s surface, internal and external relationships of politically organized areas, the effects of political actions on social and economic conditions, and the significance of geographical factors behind political situations, problems, and conflicts within and between different territories. For Geography majors this is designated as a topics course. (social science) (cont. wld.)  
NOTE: This course satisfies the College Option.  
Prerequisites: ENG 151, COR 100

GEG 266  Environmental Ethics  
(Also PHL 266)  
4 hours; 4 credits  
This course provides a critical forum to examine the roots and results of our attitudes toward the environment. How should we view the apparent connections between pollution, economic development, and poverty; what (if anything) do we owe future generations; how should we consider non-human animals in the environment; is there justice or injustice in environmental civil disobedience? The course will draw on issues related to philosophy, geography, biology, economics, geology, and political science; and will challenge the exercise of global consciousness in “real-world” terms. For Geography majors, this is designated as an environmental course.
Prerequisites: A 100-level course in philosophy or sophomore standing; ENG 151, COR 100

GEG 275  Place, Race, and Racism
(Also AAD 275)
4 hours; 4 credits
This course explores how race is socially constructed and the role that place plays in the construction of racial and ethnic identities. From the formation of racialized places such as ghettos and Chinatowns to media coverage of school shootings in suburbs, we will examine the how, why, and where of racism and discrimination. The focus will be on racial issues in the United States, coupled with case studies from other regions for comparative purposes. For Geography majors this is designated as a topics course. (social science) (p&d) NOTE: This course satisfies the College Option.
Prerequisites: ENG 151 and COR 100

GEG 301  Special Topics in Geography
4 hours; 4 credits
Contemporary global issues examined from a geographical perspective. Examination of contemporary global issues examined from a geographical perspective. Examination of major environmental, social, political, and economic trends that involve the restructuring of society and space at a variety of scales. Themes vary from semester to semester. Specific topics will be announced at time of registration. (cont. wrld.)
Prerequisites: ENG 151 and COR 100

GEG 302  Special Topics in Geography
4 hours; 4 credits
Contemporary global issues examined from a geographical perspective. Examination of contemporary global issues examined from a geographical perspective. Examination of major environmental, social, political, and economic trends that involve the restructuring of society and space at a variety of scales. Themes vary from semester to semester. Specific topics will be announced at time of registration. (cont. wrld.)
Prerequisites: ENG 151 and COR 100

GEG 304  Special Topics in Geography
4 hours; 4 credits
Contemporary global issues examined from a geographical perspective. Examination of contemporary global issues examined from a geographical perspective. Examination of major environmental, social, political, and economic trends that involve the restructuring of society and space at a variety of scales. Themes vary from semester to semester. Specific topics will be announced at time of registration. (cont. wrld.)
Prerequisites: ENG 151 and COR 100

GEG 312  Food, Self, and Society
(Also ANT 312/WGS 312/SOC 312)
4 hours; 4 credits
A sociological, anthropological, and geographical examination of the ways in which the production and consumption of food shape and are shaped by the self and the social world. A major theme of the course will be the gendering of food through topics such as women's traditional roles as home cooks, women laborers in global food production, and female body image. Particular attention will be given to the meaning of practices of eating, preparing, and sharing food for the individual, family, community, and nation, and how these practices are influenced by larger forces such as social inequality and globalization. Students are expected to conduct primary research. For Geography majors, this is designated as an environmental course.
Prerequisites: ENG 151, ANT 201 or SOC 201

GEG 316  Food, Self, and Society
(Also ANT 312/WGS 312/SOC 312)
4 hours; 4 credits
A sociological, anthropological, and geographical examination of the ways in which the production and consumption of food shape and are shaped by the self and the social world. A major theme of the course will be the gendering of food through topics such as women's traditional roles as home cooks, women laborers in global food production, and female body image. Particular attention will be given to the meaning of practices of eating, preparing, and sharing food for the individual, family, community, and nation, and how these practices are influenced by larger forces such as social inequality and globalization. Students are expected to conduct primary research. For Geography majors, this is designated as an environmental course.
Prerequisites: ENG 151, ANT 201 or SOC 201

GEG 324  Special Topics in Geography
(Also HST 324)
4 hours; 4 credits
An examination of the field of environmental history throughout the world, which is broadly defined as the study of humanity's relationships with the rest of nature over time. The course takes a global approach to the important problems, questions, and topics addressed by environmental historians, including landscape change, property regimes, deforestation, pollution, colonialism, disease, urbanization, resource conflict, climate change, natural disasters, conservation, preservation, sustainability, environmentalism, and environmental justice. For History majors and minors, this is designated as a world history course. For Geography majors, this is designated as an environmental course.
Prerequisites: Any 200-level history course and ENG 151

GEG 324  Environmental History
(Also HST 324)
4 hours; 4 credits
An examination of the field of environmental history throughout the world, which is broadly defined as the study of humanity's relationships with the rest of nature over time. The course takes a global approach to the important problems, questions, and topics addressed by environmental historians, including landscape change, property regimes, deforestation, pollution, colonialism, disease, urbanization, resource conflict, climate change, natural disasters, conservation, preservation, sustainability, environmentalism, and environmental justice. For History majors and minors, this is designated as a world history course. For Geography majors, this is designated as an environmental course.
Prerequisites: Any 200-level history course and ENG 151

GEG 364  Geopolitics of the United States
4 hours; 4 credits
This course will analyze geopolitical concepts and strategies. Analysis of America's geopolitical discourses and practices around the world. The course will offer a critical overview and analysis of US foreign interventions, the debates and justifications regarding them, and their implications. For Geography majors this is designated as a topics course. (cont. wrld.)
Prerequisite: ENG 151 and COR 100

GEG 365  The City of East Asia
4 hours; 4 credits
A survey of the cities and processes of urbanization in the region of East Asia. Following development of an understanding of general features of urbanization and different analytical approaches to explaining urban phenomena, this course will examine urbanization in both Imperial China and Tokugawa Japan. It will then examine how colonialism, industrialization, war, and economic globalization continued to shape cities from the nineteenth to the early twenty-first century. For Geography majors this is designated as a topics course.
Prerequisite: ENG 151 and COR 100

GEG 400  Geographical Imaginations
4 hours; 4 credits
Analysis and history of trends and themes in the discipline of geography. Explores major geographical traditions in research and pedagogy. Training in various geographic research methods and skills. Required for Geography majors, open to all students.
Prerequisite: Geography major or minor and Senior Standing

GEG 490  Senior Seminar in Political Science, Economics, Philosophy, and Geography
(Also ECO 490/PHL 490/POL 490)
4 hours; 4 credits
Selected topics in which ideas and approaches from economics, political science, philosophy, and geography either mesh or collide will be explored. Required of all students expecting to graduate with honors in Political
Science, Economics, Philosophy, or Geography, but not limited to these students.
Prerequisites: Senior standing and completion of at least 16 credits in intermediate and advanced social science courses and permission of the instructor

Geology

(Minor)
Department of Engineering Science and Physics. Building 1N, Room 226
Chairperson and Professor Neophytos (Neo) Antoniades

Geology Minor

Minor Requirements: 23-24
GEO 102 Earth Systems History 3 credits
GEO 103 Earth Systems History Laboratory 1 credit
GEO 210 Earth Materials 4 credits
GEO 212 Sedimentology and Stratigraphy 1 credit
AND
One Physical Geology Lecture/Laboratory 4 credits
GEO 100 Planet Earth 3 credits
GEO 101 Planet Earth Laboratory 1 credit
or
GEO 115 Fundamentals of Physical Geology 3 credits
GEO 116 Fundamentals of Physical Geology Laboratory 1 credit
AND
One Environmental Lecture/Laboratory 4 credits
ESC 110 Meteorology and Climate 3 credits
ESC 111 Meteorology and Climate Laboratory 1 credit
or
GEO 106 Earth Resources 3 credits
GEO 107 Earth Resources Laboratory 1 credit
or
GEO 111 Geologic Hazards and Natural Disasters 3 credits
GEO 112 Geologic Hazards and Natural Disasters Laboratory 1 credit
or
GEO 113 Pollution and Waste Disposal 3 credits
GEO 114 Pollution and Waste Disposal Laboratory 1 credit
AND
An additional ESC or GEO courses at the 200-level or above. 3-4 credits

Geology Courses

GEO 100 Planet Earth
3 hours; 3 credits
An introduction to the physical characteristics of the planet Earth. The focus is on processes and interactions of the four components of the Earth system: atmosphere, hydrosphere, lithosphere, and biosphere. An understanding of the human impact on Earth systems is also developed and maintained in perspective. Satellite information, aerial photography, maps, charts, and other Geographic Information Systems technologies are used to study planet Earth in this course. A full day fieldtrip and a report on the fieldtrip are required. (science) (RLPR) (STEM) NOTE: This course has a material fee.
Prerequisite: MTH 020 or higher or an appropriate score on the CUNY Mathematics Assessment Test
Corequisite: GEO 101

GEO 101 Planet Earth Laboratory
2 hours; 1 credit
The study of planet earth; identification and methods of classifying earth materials: using Satellite information, aerial photography, topographic maps, charts and Geographic Information Systems to study the surface of the earth. (scientific analysis) (STEM) NOTE: This course has a material fee.
Prerequisite: MTH 020 or higher or an appropriate score on the CUNY Mathematics Assessment Test
Corequisite: GEO 100

GEO 102 Earth Systems History
3 hours; 3 credits
Geologic history of the Earth. Develop an understanding of Earth systems and how they have functioned throughout geologic time to create the planet of today. Application of fundamental principles of stratigraphy to the reconstruction of paleogeographic, ancient sedimentary, and tectonic relationships. The evolution of life is traced from the fossil record. Participation in scheduled field trips is required. NOTE: This course has a material fee.
Prerequisite: ENG 111; (GEO 115 and GEO 116 or GEO 100 and GEO 101); MTH 123
Corequisite: GEO 103

GEO 103 Earth Systems History Laboratory
2 laboratory hours; 1 credit
Classification and identification of major fossil groups. Interpretation of rock record with emphasis on stratigraphic correlation. Major geological features of the United States. (science) NOTE: This course has a material fee.
Corequisite: GEO 102

GEO 105 Environmental Geology
3 class hours, 2 laboratory hours; 4 credits
Application of the principles of the Earth sciences to problems associated with urban and regional development. Water, minerals, and fuel resources, waste disposal, subsurface storage, hazards of nature (earthquakes, fire, flood, landslides, extreme climate, and weather variations). Physical properties of rocks and soil. Case histories. Participation in scheduled fieldtrips is required. (science) NOTE: This course has a material fee.
Prerequisite: MTH 020 or an appropriate score on the CUNY Mathematics Assessment Test

GEO 106 Earth Resources
3 hours, 3 credits
An introduction to Earth resources, including energy, mineral resources, water supply, and soils. The class will explore how these resources are produced by geologic processes and how we find them. It will also investigate
how human population growth and changing lifestyles put pressure on these resources, and the environmental impacts associated with their use. A full day fieldtrip is required.

**GEO 107  Earth Resources Laboratory**
2 hours, 1 credit
Laboratory class introducing Earth resources, their formation, use and environmental impact. Hands on exercises using maps, photographs, online data sets and lab measurements to interpret the geologic processes forming these resources, understand our use of these resources, and analyze the environmental impact of using these resources. NOTE: This course has a material fee.
Prerequisite: MTH 020 or an appropriate score on the CUNY Mathematics Assessment Test
Corequisite: GEO 106

**GEO 110  Field and Environmental Geology of Hawaii**
45 lecture hours (minimum); 30 laboratory and field application hours (minimum)
A total of 75 hours.
4 credits – 3 credits lecture and 1 credit laboratory
A supervised geologic study of the island of Hawaii, stressing the field and environmental geology of active volcanoes within a framework of plate tectonics and hot-spot geology. Fundamental igneous, sedimentary, and metamorphic processes will be emphasized. Students will be introduced to geologic mapping techniques, including the use of aerial photographs, topographic maps, and the Brunton compass in the construction of geologic maps and cross-sections. (scientific analysis)
NOTE: This course has a material fee.
Prerequisite: GEO 100 or equivalent course with the approval of the instructor

**GEO 111  Geological Hazards and Natural Disasters**
3 hours, 3 credits
An introduction to geologic hazards, their causes, and the natural disasters that result. Processes at the surface of the Earth and in the atmosphere and hydrosphere. Geologic hazards that occur due to surface processes, including slope failure, stream and coastal flooding, severe weather events, wildfires, climate change, and impacts. The Theory of Plate Tectonics, and the earthquakes, tsunamis and volcanoes produced as a result of tectonic processes. A full day fieldtrip is required.
Prerequisite: MTH 020 or an appropriate score on the CUNY Mathematics Assessment Test
Corequisite: GEO 112

**GEO 112  Geological Hazards and Natural Disasters Laboratory**
2 hours, 1 credit
Laboratory class introducing geologic hazards, their causes, and the natural disasters that result. Hands on exercises using maps, online data sets, and lab measurements to interpret geologic hazards that occur due to surface processes and plate tectonics. NOTE: This course has a material fee.
Prerequisite: MTH 020 or an appropriate score on the CUNY Mathematics Assessment Test
Corequisite: GEO 111

**GEO 113  Pollution and Waste Disposal**
3 hours, 3 credits
An introduction to pollution and waste disposal from a geologic perspective. The class will provide an overview of pollution sources and their impact on the atmosphere and water supply, including global warming, ozone destruction, and the drinking water supply. It will also explore the sources of waste and how different types of waste are disposed of. A full day fieldtrip is required.
Prerequisite: MTH 020 or an appropriate score on the CUNY Mathematics Assessment Test
Corequisite: GEO 114

**GEO 114  Pollution and Waste Disposal Laboratory**
2 hours, 1 credit
Laboratory class introducing Earth resources, their formation, use, and environmental impact. Hands on exercises using maps, photographs, online data sets, and lab measurements to interpret the geologic processes forming these resources, understand our use of these resources, and analyze the environmental impact of using these resources.
Prerequisite: MTH 020 or an appropriate score on the CUNY Mathematics Assessment Test
Corequisite: GEO 113

**GEO 115  Fundamentals of Physical Geology**
3 hours, 3 credits
An introduction to rocks and minerals, geologic time, global tectonics and other earth processes. Field simulations and exercises provide students with the framework for rock and mineral identification, mapping, model interpretations, and process visualization.
Pre or corequisite: MTH 123
Corequisite: GEO 116

**GEO 116  Fundamentals of Physical Geology Laboratory**
2 hours, 1 credit
Mineral and Rock identification, exercises working with topographic and geologic maps, plate tectonics, and earthquakes.
Corequisite: GEO 115

**GEO 210  Earth Materials**
3 lecture, 3 laboratory; 4 credits
Structure, classification and chemistry of rock forming minerals. The description, analysis, and interpretation of Earth materials. Methods used to identify the mineralogy and texture of volcanic, plutonic, and metamorphic rocks, their classification and interpretation, and formation of major igneous and metamorphic rock associations in relation to plate tectonics.
Prerequisite: (GEO 115 and GEO 116 or a minimum grade of B in GEO 100 and GEO 101)and (CHM 142 and CHM 127)
GEO 212  Sedimentology and Stratigraphy  
3 lecture, 3 laboratory; 4 credits  
Sediment origin, transportation and deposition. Diagenesis and lithification of sedimentary rocks. Correlation of stratigraphic units and interpretation of sedimentary environments. Lab work on the mineralogy, texture and other properties of sediments and sedimentary rocks and stratigraphic correlation. Participation in field trips is required.  
Prerequisite: GEO 102 and GEO 103

GEO 220  General Geophysics  
3 hours; 3 credits  
Physical properties of the Earth, including gravitational, magnetic and electrical properties of the geosphere and atmosphere. Interpretation of seismic waves. The use of geophysical data to interpret properties of the Earth's interior, geodesy, and techniques of geophysical exploration.  
Prerequisites: (GEO 115 or GEO 100) and PHY 120

GEO 230  Planetary Geology  
(Also AST 230)  
3 lecture, 3 laboratory; 4 credits  
The study of the geology of the celestial bodies such as the planets and their moons, asteroids, comets, and meteorites. Specific topics covered are: determining the internal structure of the terrestrial planets, planetary volcanism, impact craters, fluvial and aeolian processes, structures of the giant planets and their moons, make-up of the minor bodies of the solar system, such as asteroids, the Kuiper Belt, and comets, and Exoplanets (The nature of planets found beyond our Solar System). A Term paper, Field trips and/or day and evening astronomical observation sessions will be required.  
Prerequisite: (GEO 115 and GEO 116 or GEO 100 and GEO 101) and MTH 123

GEO 310  Geochemistry  
3 lecture, 2 laboratory; 4 credits  
Chemical composition and properties of the Earth. Chemical interactions between the geosphere and the hydrosphere, biosphere and atmosphere. Includes topics of atomic theory, chemical bonding, crystal chemistry and chemical equilibria. Labs include chemical analysis and calculations.  
Prerequisite: GEO 115, GEO 116, GEO 210, (MTH 230 or MTH 231)

GEO 315  Residential Field Course  
5 hours; 4 credits  
Exploration of the geology of a region outside the greater New York area. This course will allow students to put their field techniques into practice and interpret the data using knowledge from the core courses in Earth and Environmental Science. Location will vary.  
Prerequisites: GEO 210 and GEO 212

GEO 320  Invertebrate Paleontology  
3 class hours, 3 laboratory hours; 4 credits  
Classification, morphology, evolution, stratigraphic distribution and paleoecology of invertebrate fossils. The use of fossils in paleogeographic and paleoenvironmental reconstructions. Techniques of fossil collection and identification. Required field trip.  
Prerequisites: GEO 212 and BIO 180

GEO 322  Structural Geology  
3 class hours, 3 laboratory hours; 4 credits  
Analysis and interpretation of rock deformation, including folds, faults, joints, igneous, sedimentary, and metamorphic structures, and their relation to plate tectonic and other geologic processes. Lab and field based exercises using geologic maps, cross sections and stereographic projections, including interpretation of data collected in the field.  
Prerequisites: GEO 212

GEO 325  Marine Geology  
2 lecture hours, 2 laboratory hours; 3 credits  
Geology of the world's oceans. Formation of the ocean basins, processes at spreading centers, sedimentation in ocean basins, continental margins and ocean mineral and fuel resources. Field trips are required.  
Prerequisites: GEO 212 and BIO 230

GEO 410  Geospatial Data Analysis  
5 hours; 4 credits  
Tools such as Geographical Information Systems (GIS) and Google Earth are utilized to interpret geologic and environmental data. This course introduces earth and environmental science students to applications of geographic information systems, emphasizing hands-on field experience in collecting spatial location data and in mapping geologic and environmental data using GIS software. Topics include: geodesy; spherical and plane coordinate systems; spatial data concepts, including error, accuracy, and precision; location measurement technologies including GPS: vector and raster GIS data structures and file types, basic GIS operations, including georeferencing of raster files and editing of vector files; assembly of field data over a base map; analysis of spatial relationships using GIS tools; symbology and methods of map presentation.  
Prerequisite: GEO 212, GEO 310

GEO 450  Internship  
4 credits  
Approved internship working or conducting research in Earth and/or Environmental Science, with a minimum of 120 hours.  
Prerequisite: GEO 210 and GEO 212

GEO 460  Capstone Research Seminar and Thesis  
4 credits  
Establishment of an independent research project and presentation of results. Students will become familiar with current topics in Earth and Environmental Science through reading recent research papers and interpreting the results. They will then conduct a research project with a faculty mentor and present the results in a thesis.  
Prerequisite: GEO 210, GEO 212, GEO 310

Health Education  
Department of Nursing, Marcus Hall (5S), Room 213
Chairperson: Associate Professor Arlene Farren

The course in health education is offered as a non-liberal arts and sciences elective. It may not be used to satisfy the College Physical Education Requirement.

HED 111 First Aid and Safety
2 hours, 2 laboratory hours; 3 credits
Theory and practice of first aid to the injured. Safety procedures when emergency first aid is needed and medical assistance is delayed. Includes cardio-pulmonary resuscitation (CPR), care and prevention of accidental injuries, and sudden illness. NOTE: This course has a material fee.

History

(Bachelor of Arts, Minor; Master of Arts, see Graduate Catalog)
Department of History, Marchi Hall (2N), Room 215
Chairperson and Associate Professor Eric Ivison

History (BA)

History Four-Year Plan

History (7-12) Four Year Plan

Major Requirements: 36-40 credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>HST 200</td>
<td>Historical Method</td>
<td>4</td>
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<tr>
<td>HST 300</td>
<td>Historiography</td>
<td>4</td>
</tr>
<tr>
<td>HST 401</td>
<td>Seminar in Advanced History</td>
<td>4</td>
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Twenty-four credits of history courses at the 200 level or higher, of which at least three courses must be at the 300 level including:

At least one history course designated as pre-1700 history
At least one history course designated as modern European history
At least one history course designated as United States history
At least one history course from a geographical area other than Europe or the United States, designated as World history
At least one history course from a geographical area other than Europe or the United States, designated as World history

Note: A 200-level geography course may be used to satisfy this requirement. At most, one independent study course may be used to satisfy this requirement. The cumulative grade point average in history courses must be 2.0 or higher for graduation.

Foreign Language Requirement:
Demonstration of proficiency in a language 0-4 through the intermediate level, 213 or above. credits

Electives: 4-38

Total Credits Required: 120

Adolescence Education Sequence: 24 Credits

Students wishing to be recommended by the College for certification must successfully complete the Adolescence Education sequence courses, as well as their academic major. Students planning to teach social studies major in History and they complete at least 50 credits in the social sciences, including at least four credits in geography, at least four credits in U.S. history, and at least four credits in non-U.S. history. The sequence may be begun in the sophomore year. To complete the sequence in two years it must be begun by the beginning of the junior year. For admission and continuation in the adolescence education sequence and all adolescence education courses, students must have a minimum cumulative GPA of 3.0.

EDS 201 Social Foundations of Secondary Education 4 credits
EDS 202 Psychological Foundations of Secondary Education 4 credits
EDS 301 The Pedagogy of Secondary School in Social Studies 4 credits
EDS 315 The Secondary School Curriculum in the Social Studies 4 credits
EDS 400 Student Teaching in Secondary Education 6 credits
EDS 401 Reflection and Analysis in Student Teaching in Secondary Education 2 credits

Honors

To graduate with honors in the History major, a student must have a minimum of a 3.5 grade point average in courses in the major and a 3.0 cumulative grade point average. In addition, a student must complete either an HSSH 594 Independent Study Honors in History or a Divisional Honors Seminar. Finally, a student must complete an honors thesis under the supervision of a History faculty member who will oversee and approve each step of the thesis process. The research paper submitted as the thesis need not be a new work; it may be a substantial revision or extension of a paper previously submitted in a course at CSI. Students must submit a one-to two-page thesis proposal to their advisor and the coordinator of honors in History (Professor Catherine Lavender) stating the scope of research or revisions, as well as questions and new source materials to be addressed before registering for HSSH 594 or a Divisional Honors Seminar. The 20-30 page thesis should demonstrate a superior command of the historical topic and evidence of rigorous critical thinking. The thesis must be approved by the faculty advisor and a second reader appointed by the coordinator of honors in History.

History Minor

Minor
At least 12 credits of courses in history at or above the 200-level including courses from at least two of the following categories: pre-1700 history; modern European history; United States history; World history.

History Courses

HST 100 Past and Present 3 hours; 3 credits
An interdisciplinary approach to historical experience since the Renaissance, with particular emphasis on sig-
significant themes and events and on concepts such as freedom, power, social roles, bureaucracy, and historical cycles. (social science) (FISR)

HST 105  
Contemporary African Issues
(Also AAD 105)
3 hours; 3 credits
An examination of post-colonial African issues, including the colonial legacy/neocolonialism; conflict and human rights; development, poverty and the debt problem; healthcare and infrastructure; globalization, democracy and multiparty politics; and, how these relate to the world at large. Not open to students who have completed HST 267 or AFA 266. (social science) (FWGR)

HST 106  
Africa Encounters Europe
3 hours; 3 credits
A study of the interactions between Africans and Europeans since the 15th century. This course examines African societies just prior to the Atlantic slave trade; its consequences for African, European, and American societies; colonialism and nationalism; and problems facing African societies in the postcolonial and post-Cold war periods.(FWGR) (social science) Not open to students who have completed HST 290.
Pre or corequisite: ENG 111

HST 110  
Individual and Society in Ancient Greece
3 hours; 3 credits
A course examining social relations in the ancient Greek world through a variety of sources, which could include literature, history, and archaeology. Themes and topics may include the soldier and the citizen, the aristocrat and the commoner, women and children both in their respective roles and in their mutual relations within the society in which they live. (social science) (FISR)
Pre or corequisite: ENG 111

HST 115  
Comparative Ancient Religion
3 hours; 3 credits
Close reading and comparison among a range of religious texts coming from different regions of the ancient world. The texts are interpreted against their culture and historical backgrounds.(social science) (FWGR)
Prerequisite or corequisite: ENG 111

HST 116  
Freshman Seminar in History
3 hours; 3 credits
An interdisciplinary approach to historical experience since the Renaissance with selected emphasis on significant themes and events, and on concepts such as freedom, power, social roles, bureaucracy, and historical cycles. The seminar is designed to give students special instruction in communications skills. It is offered in conjunction with a designated section of ENG 001. Students must register for both the seminar and the designated English course. Students can receive credit for only one freshman seminar. (social science) NOTE: This course satisfies the College Option.
Prerequisite: Successful completion of CUNY Assessment Test in Reading. Students who successfully complete the Freshman Seminar in History may not register for any additional 100-level courses in history without permission of the department chairperson.

HST 160  
African American History: 1619 to the Present
(Also AAD 160)
3 hours; 3 credits
From the forced migration of the first Africans in the 17th century to the contemporary struggles for equality, emphasis on such topics as slavery, abolition, Reconstruction, the origins of Jim Crow, urban migrations, the struggle for civil rights, nonviolence, and the new militancy. (social science) (FUSR)

HST 182  
Women's History and Feminist Theory
(Also WGS 100)
3 hours; 3 credits
This course explores both the history of women's experience and feminist interpretations of their historical condition. Emphasis is on the development of analytic and writing skills. (social science) NOTE: This course satisfies the College Option.

HST 200  
Historical Method
4 hours; 4 credits
An introduction to the basic skills of historical reasoning, research, and writing. Students receive training in the interpretation of primary sources and the evaluation of historical data, and are acquainted with the notion of historiography. Particular emphasis is placed on the preparation of research papers and book reviews; the use of library, electronic, and archival resources; and the critical evaluation of secondary monographic works. Required for History majors, open to all students.
Prerequisites: ENG 111 and any college-level history course

HST 201  
History of Western Civilization: Antiquity to 1500
4 hours; 4 credits
The historical development of Western civilization in ancient, medieval, and Renaissance times, with emphasis on the individuals, issues, ideas, institutions, and events that highlight its evolution. For History majors and minors, this is designated as a pre-1700 history course. (social science) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111 and COR 100 or any college-level history course

HST 202  
History of Western Civilization since 1500
4 hours; 4 credits
The historical development of Western civilization from the 16th century to the present. The focus is on Europe, but developments in other areas of the world are considered in relation to Western ideas. (social science) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111 and COR 100 or any college-level history course

HST 203  
The World Since 1900
4 hours; 4 credits
A survey of the major political, economic, social, and cultural developments in world history from the beginning of the 20th century to the present day. The course will focus on the processes of imperialism, decolonization and modernization around the globe. Topics include imperialism, world revolution, the world economic depression, the world wars, decolonization and globalization. (social science) (cont. wld.) NOTE: This course satisfies the College Option.
Prerequisites: ENG 151 and COR 100 or any college-level history course

HST 204 Introduction to Asian Civilization
4 hours; 4 credits
An introductory course on the nature of Asian civilization and culture. The first part will deal with an analysis of the historical role of Buddhism, Confucianism, and Taoism; the second, with different paths to modernization emphasizing China, India, and Japan. For History majors and minors, this is designated as a world history course. (social science) (p&d) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111 and COR 100 or any college-level history course

HST 206 Modern China
4 hours; 4 credits
A survey of China from the 19th century to the present. The course will analyze the character of early Western involvement and Chinese responses, the rise of Chinese communism, and China’s struggle to modernize. For History majors and minors, this is designated as a world history course. (social science) (cont. wld.) (p&d) NOTE: This course satisfies the College Option.
Prerequisites: ENG 151 and COR 100 or any college-level history course

HST 207 History of Africa
(Also AAD 260)
4 hours; 4 credits
Nineteenth-century African history, the story of European imperialism, and the emergence of modern, independent Africa and its problems. For History majors and minors, this is designated as a world history course. (social science) (p&d) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111 and COR 100 or any college-level history course

HST 208 History of Modern Latin America
4 hours; 4 credits
A survey of the social, economic, political, and cultural development of Latin America since independence. The course will focus on the prevailing colonial influences on modern institutions; Cuba, Venezuela, and Brazil as developmental models; and on United States-Latin American relations. For History majors and minors, this is designated as a world history course. (social science) (p&d) (cont. wld.) NOTE: This course satisfies the College Option.
Prerequisites: ENG 151 and COR 100 or any college-level history course

HST 209 Modern Japan
4 hours; 4 credits
An exploration of themes in Japanese history, such as the indigenous roots of the late 19th-century transformation, the debate on the origins of military rule of the 1930s, the reasons for the economic success story of the post-war period, and the human and ecological cost of the great changes over the 19th and 20th centuries. For History majors and minors, this is designated as a world history course. (social science) (cont. wld.) (p&d) NOTE: This course satisfies the College Option.
Prerequisites: ENG 151 and COR 100 or any college-level history course

HST 210 History of Modern India
4 hours; 4 credits
A survey of the history of India from the end of the Mogul period to the present. Emphasis will be placed on the nature of British imperialism, the Independence movement, and India’s attempts to modernize. For History majors and minors, this is designated as a world history course. (social science) (p&d) (cont. wld.) NOTE: This course satisfies the College Option.
Prerequisites: ENG 151 and COR 100 or any college-level history course

HST 211 Japanese Civilization
4 hours, 4 credits
A survey of Japanese history from the beginning of the historical period through the 18th century. The course will examine major themes such as the early Japanese traditions, China’s influence, the Japanese adaptation of Chinese ideas and institutions, the changing nature of elite status, relations with outsiders, and Japanese religious and philosophical traditions. For History majors and minors, this is designated as a world history course. (social science) (p&d) NOTE: This course satisfies the College Option.
Prerequisite: ENG 111 and COR 100 or any college-level history course

HST 212 History of the Ancient Near East
4 hours; 4 credits
An interdisciplinary approach to ancient Near Eastern civilizations of the pre-Christian era. Attention will be given to the literature, history, mythology, philosophy, religions, art, and architecture of Egypt, Mesopotamia, Persia, and ancient Palestine. For History majors and minors, this is designated as a pre-1700 history course. (social science) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111 and COR 100 or any college-level history course

HST 213 Chinese Civilization
4 hours; 4 credits
A survey of Chinese history from the beginning of the historical period through the 18th century. The course will examine major themes such as the imperial state, philosophical and religious traditions, the changing nature of elite status, relations with Inner Asia, and the agrarian-based society and the emergence of the commercial economy. For History majors and minors, this is designated as either a pre-1700 history course or a world his-
HST 214  Greece and the Hellenistic World
4 hours; 4 credits
Introduction to the social, economic, political, and intellectual history of Greece from ca. 2000 BCE to the Hellenistic world of ca. 250 BCE. Integration of background with various aspects of Greek and Hellenistic culture, for example, philosophy, political thought, and religion. Emphasis on the interpretation of primary and secondary sources in historical study. For History majors and minors, this is designated as a pre-1700 history course. (social science) NOTE: This course satisfies the College Option. Prerequisites: ENG 111 and COR 100 or any college-level history course

HST 215  The Origins of Western Europe:
400-1000 CE
4 hours; 4 credits
A survey of the history and culture of Western Europe from the dissolution of the Western Roman Empire to the year 1000. This period of change and transformation saw the settlement of migrating peoples in the former provinces of the Western Roman Empire and the emergence of new states and new societies. This course aims to introduce students to the political, social, cultural, and demographic changes that laid the foundations of modern Europe. For History majors and minors, this is designated a pre-1700 course. (social science) NOTE: This course satisfies the College Option. Prerequisites: ENG 111 and COR 100 or any college-level history course

HST 216  Byzantine Thought and Civilization
4 hours; 4 credits
A survey of various aspects of the culture of the East Roman or Byzantine Empire (ca. 600-1200 CE). Special emphasis is placed on the church, state, and social classes in the creation of a distinctive Byzantine civilization, identity, and world-view. This course also examines achievements in the arts, philosophy, literature, and spirituality. This course is interdisciplinary in approach and includes readings in historical documents and slide lectures. For History majors and minors, this is designated a pre-1700 course. (social science) NOTE: This course satisfies the College Option. Prerequisites: ENG 111 and COR 100 or any college-level history course

HST 217  Introduction to Women's History
(Also WGS 217)
4 hours, 4 credits
An overview of the history of women and the role of gender in history, focusing especially on the period since the 1700s. The course will examine key texts regarding women and their status in world history and address the development of the discipline of women's history within the larger field of women's studies. For History majors and minors, this is designated as a world history course. (social science) (p&d) NOTE: This course satisfies the College Option. Prerequisite: ENG 111 and COR 100

HST 218  The Roman World
4 hours; 4 credits
Aspects of Roman history in relation to the historical background, for example, the growth of the Roman constitution in the age of the republic, Rome's expansion in the Mediterranean world, the Roman revolution, the princepate, the problems of primary and secondary sources in historical study. For History majors and minors, this is designated as a pre-1700 history course. (social science) NOTE: This course satisfies the College Option. Prerequisites: ENG 111 and COR 100 or any college-level history course

HST 219  Greek and Roman Mythology
4 hours, 4 credits
An overview of mythology as a cultural expression of the Ancient Greek and Roman civilizations taught against a historical background. The course covers a period between 1200 BCE through 200 CE across the Mediterranean basin. For History majors and minors this is designated as a pre-1700 history course. (social science) NOTE: This course satisfies the College Option. Prerequisites: ENG 111 and COR 100 or any college level history course.

HST 220  Medieval Thought and Civilization
4 hours; 4 credits
Various aspects of the culture of the Middle Ages from the creation of the Carolingian empire (ca. 800-1300 CE) in relation to the historical background; special emphasis is placed on the interaction of the church, state, and medieval social classes in the creation of a distinctive medieval civilization. The course is interdisciplinary in approach and includes readings in literature and slide lectures. For History majors and minors, this is designated a pre-1700 history course. (social science) NOTE: This course satisfies the College Option. Prerequisites: ENG 111 and COR 100 or any college-level history course

HST 221  The American Dream
(Also AMS 221)
4 hours; 4 credits
The hopes, the frustrations, and, particularly, the dreams of American society as observed by foreign and native commentators in the past and present. This course will attempt to assess not only the idealization of the American dream but also disillusionment with it as expressed by such writers as Franklin, Tocqueville, Emerson, Whitman, Henry Adams, and Norman Mailer. For History majors and minors, this is designated a United States history course. (social science) NOTE: This course satisfies the College Option. Prerequisites: ENG 111 and COR 100 or any American studies or history course

HST 222  Islam: Religion and Culture
4 hours, 4 credits
A survey course on Islam as a system of belief embodied in practice. Students will be introduced to a variety of in-
terpretations of Islam from both Western and Islamic perspectives, from the medieval to the modern. Topics will include: the Qur'an, the Hadith, Islamic Law (Shari'a), philosophy, theology (Kalam), and the various intellectual tendencies (Sufi, Shi'a, Sunni) within the Islamic tradition. For History majors and minors, this is designated as a world history course. (social science) (p&d) NOTE: This course satisfies the College Option.

Prerequisites: ENG 111 and COR 100 or any college-level history course

HST 223 American Landscapes
(Also GEG 223)
4 hours; 4 credits
A study of American landscapes through historical geography and history. This course examines the making of American landscapes, including not only the “natural” processes but also the social, cultural, and ideological forces that have shaped them. For History majors and minors, this is designated as a United States history course. (social science) NOTE: This course satisfies the College Option.

Prerequisites: ENG 111 and COR 100 or any college-level history course

HST 224 Jewish History
4 hours; 4 credits
The history of the Jewish people including their culture, religion, education, and economic conditions from the Babylonian exile (586 BCE) through the present day; domination by Persia, Greece, and Rome; Jewish life in Babylonia and neighboring Eastern lands; Jews in the Western world from medieval to modern times; the development of Jewish communities and the distinctive features of life in Italy, Spain, France, Germany, England, Russia, Poland, and the United States; the world wars and the Jews; the State of Israel. (social science) NOTE: This course satisfies the College Option.

Prerequisites: ENG 111 and COR 100 or any college-level history course

HST 225 History of Christianity
4 hours; 4 credits
A cultural approach to early Christianity, featuring an examination of the New Testament; a study of the history of the medieval church and the emergence of Protestantism in the modern world. Examples of church art, architecture, and music in the Christian tradition. (social science) NOTE: This course satisfies the College Option.

Prerequisites: ENG 111 and COR 100 or any college-level history course

HST 228 Renaissance and Reformation Europe
4 hours; 4 credits
A study of the interaction of the socioeconomic, intellectual, cultural, and religious trends of Europe from the close of the Middle Ages to the end of the 16th century. For History majors and minors, this is designated as a pre-1700 history course. (social science) NOTE: This course satisfies the College Option.

Prerequisites: ENG 111 and COR 100 or any college-level history course

HST 229 History of Religion from Antiquity to Our Times
4 hours, 4 credits
A historical introduction to world religions from the Ancient Near East to modern times. The origin and history of monotheistic religions (Judaism, Christianity, Islam), of religious philosophies (Buddhism, Taoism, Confucianism), and of polytheisms, both ancient (Greek, Roman) and modern (Hinduism) will be the subject of this course. (social science) NOTE: This course satisfies the College Option.

Prerequisites: ENG 111 and COR 100 or any college-level history course

HST 230 Early Modern England
4 hours; 4 credits
English history from the Reformation to the end of the 17th century. The emphasis is on political history and the underlying social and economic forces. Topics generally include Protestantism and the rise of capitalism, origins of the English Revolution, and the background to American colonial and constitutional history. For History majors and minors, this is designated as a pre-1700 history course. (social science) NOTE: This course satisfies the College Option.

Prerequisites: ENG 111 and COR 100 or any college-level history course

HST 231 Reacting to the Past
4 hours; 4 credits
A course that immerses students in three historic periods, widely separated in time and place, assigning them roles as actors in the events they are studying. Arguments come from works containing speeches and actions that the historical characters used in their times. The instructor functions as game master while the students play the game themselves. (social science) NOTE: This course satisfies the College Option.

Prerequisites: ENG 111 and COR 100

HST 234 Asian Tigers since 1945
4 hours; 4 credits
Focus is on the “Asian Tigers” (Hong Kong, Singapore, South Korea, and Taiwan), and exploration of themes such as post-1945 development and its connection to the common cultural heritage shared by these places; the British (Hong Kong and Singapore) and Japanese (South Korea and Taiwan) colonial histories; and the post-1945 economy. The course will also examine the relationship of these places to their respective hinterlands and the sense of identity of the respective populations in relation to the mainland and the world at large. Overall, this class will examine the proposition that there is an East Asian developmental model. For History majors and minors, this is designated as a world history course. (social science) (p&d) NOTE: This course satisfies the College Option.

Prerequisites: ENG 111 and COR 100 or any college-level history course

HST 235 The Modern Middle East
4 hours; 4 credits
A survey of the main political, social, economic, and intellectual currents of the 19th and 20th centuries. Em-
phasis on historical background and development of current problems in the region. Topics of study include imperialism, religion, culture, women, class formation, oil, and the Arab-Israeli conflict. For History majors and minors, this is designated as a world history course. (social science) (p&d) NOTE: This course satisfies the College Option.
Prerequisites: ENG 151 and COR 100 or any college-level history course

HST 236  Asian American History
4 hours; 4 credits
An introductory survey of the major Asian groups in the U.S. from their earliest migration to the present. The course will examine the immigration history, experiences, and major problems encountered by each group. For History majors and minors, this is designated as a United States history course. (social science) (p&d) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111 and COR 100 or any college-level history course

HST 238  World Civilization I
(Also SLS 240)
4 hours; 4 credits
A comparative study of the growth and development of the major global civilizations from earliest times to the onset of modernity. An overview of the development of civilizations, examining their structure and organization, characteristic ideas and institutions, and the processes of cultural diffusion and conflict within and between them. For History majors and minors, this is designated as a pre-1700 history course. (social science) (p&d) NOTE: This course satisfies the College Option.
Prerequisites: A minimum GPA of 3.0; ENG 111 and ENG 151

HST 239  World Civilization II
(Also SLS 241)
4 hours; 4 credits
The growth and development of the major civilizations around the globe from the onset of modernity to present times, with particular attention to the changing relationships among global communities. For History majors and minors, this is designated as a world history course. (social science) (p&d) NOTE: This course satisfies the College Option.
Prerequisites: A minimum GPA of 3.0; ENG 111 and ENG 151

HST 240  American Ideas
(also AMS 251)
4 hours; 4 credits
A major idea in American intellectual history will be examined from the perspective of two or more disciplines. This course will demonstrate the interdisciplinary method and philosophy of American Studies. Puritanism, transcendentalism, the idea of freedom, social Darwinism, Freudianism, and socialism are possible topics. (social science) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111, and COR 100 or AMS 101 or any history course

HST 244  United States History: 1607-1865
4 hours; 4 credits
An examination of the U.S. from the English colonization of Virginia to the Civil War. Attention will focus on the major political, economic, social, and intellectual developments of the period. For History majors and minors, this is designated as a United States history course. (social science) (p&d) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111 and COR 100 or any college-level history course

HST 245  United States History: 1865-Present
4 hours; 4 credits
A historical survey of the U.S. from the abolition of slavery to the present. Some of the topics to be examined are: Reconstruction, the development of industrial America, the Progressive movement, World War I, the Depression, World War II, the McCarthy Era, the Civil Rights movement, the Feminist movement, and the Vietnam War. For History majors and minors, this is designated as a United States history course. (social science) (p&d) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111 and COR 100 or any college-level history course

HST 246  Religion in America
(Also AMS 224)
4 hours; 4 credits
Addresses the development of religion—Protestant, Catholic, Jewish, and others—in the context of American social, cultural, and intellectual history. For History majors and minors, this is designated as a United States history course. (social science) (p&d) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111 and COR 100 or any college-level history course

HST 248  New York City: History and Problems
4 hours; 4 credits
The history of neighborhoods and communities of New York City. Each student will study a community in detail by tracing its history, interviewing inhabitants, and creating plans for its future. Special emphasis on the culture, life, and governmental services of Staten Island and Brooklyn. For History majors and minors, this is designated as a United States history course. (social science) (p&d) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111 and COR 100 or any college-level history course

HST 249  Italian American History
4 hours; 4 credits
A survey of the history of Italian Americans from their earliest migration to the present. Attention will focus on the generational problems of acculturation and the present position of Italian Americans in the community. For History majors and minors, this is designated as a United States history course. (social science) (p&d) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111 and COR 100 or any college-level history course
HST 251  History of the U.S. City  
4 hours; 4 credits  
An urban studies course with special emphasis on the impact of industrialization and immigration on the development of the U.S. city and urban culture. For History majors and minors, this is designated as a United States history course. (social science) (p&d) NOTE: This course satisfies the College Option.  
Prerequisites: ENG 111 and COR 100 or any college-level history course

HST 252  History of Education in the United States  
(Also EDD 252)  
4 hours; 4 credits  
The history and social foundation of American education. Topics include: the historical development of American public schools, the schools and race, the social function of compulsory schooling, the expansion of higher education in the post-World War II period, and the conceptual differentiation between schooling as socialization and education for personal growth. (social science) (p&d) NOTE: This course satisfies the College Option.  
Prerequisites: ENG 111 and COR 100 or any college-level history course

HST 253  United States Economic History  
(Also ECO 253)  
4 hours; 4 credits  
A survey of the development of the U.S. economy and the factors influencing the pace of long-run economic growth. Key changes in technology, business organization, financial markets, and legal and government policy that have influenced the course of U.S. economic development are examined. For History majors and minors, this is designated as a United States history course.  
Prerequisites: ENG 111, COR 100 and (ECO 101 or ECO 111 or ECO 112) any college-level history course

HST 254  History of Staten Island  
4 hours; 4 credits  
A study of the architectural, industrial, environmental, political, and ethnic history of the borough from colonial times through today. For History majors and minors, this is designated as a United States history course.  
Prerequisites: ENG 111 and COR 100 or any college-level history course

HST 257  The History of American Immigration  
4 hours; 4 credits  
This course will examine the pushes and pulls leading to the immigration and/or restriction of northwestern European, southeastern European, Caribbean, Asian, Mexican, and other groups. Such theories as the "White Anglo-Saxon Protestant Ideal," the melting pot, and cultural pluralism are to be studied. Implications for neighborhood structures, educational policy, and politics will be discussed. For History majors and minors, this is designated as a United States history course. (social science) (p&d) NOTE: This course satisfies the College Option.  
Prerequisites: ENG 111 and COR 100 or any college-level history course

HST 258  Vietnam and America: 1945-1975  
(Also AMS 258)  
4 hours; 4 credits  
An examination of the history of American involvement in Vietnam, the experience of Americans and Vietnamese who fought the second Indochina war. For History majors and minors, this is designated as a United States history course. (social science) NOTE: This course satisfies the College Option.  
Prerequisites: ENG 111 and COR 100 or any college-level history course

HST 260  U.S. History: First Encounters to the Present  
4 hours; 4 credits  
A one semester survey of United States History. While designed to contribute to the liberal arts general education of CSI students and to the training of history majors, the course will be especially valuable to students intending careers as elementary and middle school social studies teachers, since it is based on the content and skills required of elementary and middle school social studies teachers in New York City and State. Students will collect primary and secondary materials in each of the time periods covered in the elementary school curriculum, including time-lines and maps, and New York State, City, and Staten Island historical materials, thus assembling a portfolio to be used in their social studies classrooms. Emphasis will be on the skills students will foster in their own work as elementary school teachers: thinking, research and writing, interpersonal and group relations, sequencing and chronology, map and globe, and graph and image analytic skills. For History majors and minors, this is designated as a United States History course. (social science) NOTE: This course satisfies the College Option. Students majoring in SLS must take this course in order to satisfy the social science 200 level requirement.  
Prerequisites: ENG 111 and COR 100 or any college-level history course

HST 262  African American History: 1619-1865  
(Also AAD 262)  
4 hours; 4 credits  
A study of the African American experience in the Western hemisphere. Emphasis on the slave trade, slave life, slave revolts, and the struggle for freedom. For History majors and minors, this is designated as a United States history course. (social science) (p&d) NOTE: This course satisfies the College Option.  
Prerequisites: ENG 111 and COR 100 or any college-level history course

HST 263  African American History: 1865 to the Present  
(Also AAD 263)  
4 hours; 4 credits  
The continuing role of African Americans in the building of their own nation. Emphasis on freedom movements as shown in literature, in civil rights movements, in nationalist and other political organizations. For History majors and minors, this is designated as a United States history course. (social science) (p&d) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111 and COR 100 or any college-level history course

HST 264 The African Diaspora
(Also AAD 264)
4 hours; 4 credits
A survey of the historical connections of the African diaspora from pre-transatlantic slave trade to post-colonial movements. This course examines the political and socio-economic institutions and interactions between Africans before and during the transatlantic slave trade, the reasons why Africans were enslaved, the inland and middle passages, the impact of the trade on African societies, African communities in the Diaspora, the end of the trade and the beginning of European colonial rule in Africa, as well as the legacies of both the transatlantic slave trade and colonialism in post-colonial Africa. For History majors and minors, this is designated as a world history course. (social science) (p&d) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111, COR 100 or any college history course

HST 265 History of the Caribbean
(Also AAD 265)
4 hours; 4 credits
Pre-colonial and colonial history of the Caribbean; an examination of the policies of the metropolitan powers, and the emergence of anticolonialist movements. For History majors and minors, this is designated as a world history course. (social science) (p&d) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111 and COR 100 or any college-level history course

HST 266 Peoples and Cultures of Africa
(Also AAD 247)
4 hours; 4 credits
A descriptive survey of the peoples and cultures of the African continent. Emphasis is on those features and/or qualities of the African pattern of life that are common to the African people as a whole. For History majors and minors, this is designated as a world history course. (social science) (p&d) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111 and COR 100 or any college-level history course

HST 267 Contemporary African Issues
(Also AAD 266)
4 hours; 4 credits
An examination of post-colonial African issues, including the colonial legacy/neocolonialism; conflict and human rights; development, poverty and the debt problems; healthcare and infrastructure; globalization; democracy, and multiparty politics; and, how these relate to the world at large. For History majors and minors, this is designated as a world history course. (p&d) (cont. wld.) (social science) NOTE: This course satisfies the College Option.
Prerequisites: ENG 151, COR 100, and any college-level History course or African American Studies course

HST 269 Blacks in Urban America: 1900-2000
(Also AAD 269)
4 hours; 4 credits
An examination of various aspects of Black life in major American cities. Particular emphasis will be placed on the causes of the migration; ecological development of Black communities; urban violence; Blacks’ participation in conventional and radical politics; Blacks in the labor force; and the impact of urbanization on the Black family. For History majors and minors, this is designated as a United States history course. (social science) (p&d) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111 and COR 100 or any college-level history course

HST 270 Modern British History: 1700-1900
4 hours; 4 credits
A study of selected problems of British social and political history in the 18th and 19th centuries. The origins and immediate impact of industrialization in Britain and the rise of the British Empire. For History majors and minors, this is designated as a modern European history course. (social science) (cont. wld.) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111 and COR 100 or any college-level history course

HST 271 Modern British History: 1900 to the Present
4 hours; 4 credits
A study of selected problems of British social and political history in the late 19th and 20th centuries. Topics generally include the decline of empire, the creation of the welfare state, and the British role in the world wars. For History majors and minors, this is designated as a modern European history course. (social science) (cont. wld.) NOTE: This course satisfies the College Option.
Prerequisites: ENG 151 and COR 100 or any college-level history course

HST 272 Modern Germany
4 hours; 4 credits
The history of 19th- and 20th-century Germany – cultural flowering, national unification, industrialization, world empire and war, Nazism, division into East and West Germany and reunification. Particular focus on the origins, nature, and consequences of Hitler and the Nazi state. For History majors and minors, this is designated as a modern European history course. (social science) (cont. wld.) NOTE: This course satisfies the College Option.
Prerequisites: ENG 151 and COR 100 or any college-level history course

HST 273 Medieval Russia
4 hours, 4 credits
A survey of Russian history from the tenth century to the reign of Peter the Great, with an emphasis on political, religious, social, and intellectual history. For History majors and minors, this is designated as a pre-1700 history course. (social science) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111 and COR 100 or any college-level history course
HST 274      History of Modern Russia
4 hours; 4 credits
A survey of Russian developments since the 18th century with special emphasis on the Russian Revolution and the history of the Soviet Union. For History majors and minors, this is designated as a modern European history course. (social science) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111 and COR 100 or any college-level history course

HST 275      Imperial Russia
4 hours; 4 credits
A survey of the history of Imperial Russia, from Peter the Great to the Russian Revolution of 1917. For History majors and minors, this is designated as a modern European history course. (social science) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111 and any college-level history course or COR 100

HST 276      History of Italy
4 hours; 4 credits
A survey of modern Italian history from the Risorgimento to the present. Topics include the legacy and heritage of the Renaissance and city-states, the creation of Italy as a nation, the question of the South, emigration, Italian imperialism, fascism and anti-fascism, the Mafia and the Berlusconi era. For History majors and minors, this is designated as a modern European history course. (social science) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111 and any college-level history course or COR 100

HST 277      History of Nineteenth-Century Europe
4 hours; 4 credits
A survey of Europe’s “long Nineteenth Century” from 1789 to the eve of World War One. Topics include the French Revolution, the Napoleonic era, the evolution of mature capitalism, the revolutions of 1848, the formation of the national bourgeoises and the working classes, the synthesis of national-liberalism at home and imperialism abroad; the challenge of emerging socialist forces on the left and new forms of conservatism on the right, and European culture from Romanticism to the fin-de-siècle. For History majors and minors, this is designated as a modern European history course. (social science) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111 and COR 100 or any college-level history course

HST 278      The History of Twentieth-Century Europe
4 hours; 4 credits
A survey of selected aspects of European civilization in the 20th century, from its pinnacle of world dominance in 1900 through its self-destruction in World War II and genocide of the crises of the present day. Topics include European imperialism, the origins and impact of World War I, the Russian Revolutions, Fascism and Nazism, the Great Depression, World War II and the Holocaust, the Cold War division of Europe, Decolonization, welfare state versus state socialism, the Revolutions of 1989-91 and problems of European integration. For History majors and minors, this is designated as a modern European history course. (social science) (cont. wld.) NOTE: This course satisfies the College Option.
Prerequisites: ENG 151 and COR 100 or any college-level history course

HST 279      History of the Balkans: 1453 to the Present
4 hours; 4 credits
Overview of the social, economic, political, and cultural history of Southeastern Europe, starting with the Ottoman conquest in the 15th century and ending with the post communist transitions after 1989. Course emphasizes the Ottoman millet system, village household structure, the practice of multiple religions, imperial influences, the rise of regional and Mediterranean trading networks, 19th century National revolutions, pre-World War I modernization without industrialization, the state socialist system, and the challenge of post socialist European integration. For History majors and minors, this is designated as a modern European history course. (social science) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111 and COR 100 or any college-level history course

HST 280      History of Science
4 hours; 4 credits
An examination of several major scientific world-views, such as Aristotelian and Newtonian physics, Darwinism, Freudianism, and relativitiy. For History majors and minors, this is designated as a modern European history course.
Prerequisites: ENG 111 and COR 100 or any college-level history course

HST 281      History of Work
4 hours; 4 credits
Work as a central experience in medieval, early industrial, and modern history. A study of employment choice, work satisfaction, the impact of technology, training, worker organizations, social consequences, the role of government, leisure, and the job milieu.
Prerequisites: ENG 111 and COR 100 or any college-level history course

HST 283      Psycho-History
4 hours; 4 credits
A study of the uses, methods, and styles of psychology in history writing. How mass behavior, as well as the personalities of heroes and geniuses, shape history. Special emphasis on psychobiography and on a mass movement, such as fascism.
Prerequisites: ENG 111 and COR 100 or any college-level history course

HST 284      The Soviet Union and Contemporary Russia
4 hours; 4 credits
A survey of the history of the Soviet Union and its successor states from 1917 to the present. For History majors and minors, this is designated as a modern European history course. (social science) (cont. wld.) NOTE: This course satisfies the College Option.
Prerequisites: ENG 151 and COR 100
HST 285 The World of the 21st Century
4 hours; 4 credits
This course uses history to examine the possible makeup of future society. Topics include the prospect of world government, limits of growth, and changes in morality and behavior, as well as questions about the validity of projecting the future from past experience.
Prerequisites: ENG 111 and COR 100 or any college-level history course

HST 286 History of American Women
(Also WGS 286)
4 hours; 4 credits
This course introduces students to broad themes in American Women's History from colonial times to the present and focuses on women as historical actors and on the historical forces shaping the construction of womanhood. The course will pay particular attention to differences among women with respect to race, class, ethnicity, and sexual orientation. For History majors and minors, this is designated as a United States history course. (social science) (p&d) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111 and COR 100 or any college-level history course

HST 290 The West and the World: Africa Encounters Europe
4 hours; 4 credits
A study of the interactions between Africans and Europeans since the 15th century. This course examines African societies just prior to the Atlantic slave trade; its consequences for African, European, and American societies; colonialism and nationalism; and problems facing African societies in the postcolonial and post-Cold War periods. For History majors and minors, this is designated as a world history course.
Prerequisites: ENG 111 and COR 100 or any college-level history course

HST 291 The Atlantic World
4 hours; 4 credits
A survey of the diverse historical experiences that resulted from contact in the Atlantic world among the indigenious populations of the Americas, Europeans, and Africans from the 15th through the 19th centuries. This course examines pre-Columbian historical development in the Americas, the European historical contexts of expansion, patterns of contact and settlement, the negotiation of indigenous peoples with European empires, the economic and social impact of slavery and emancipation, and the role of revolutions in the historical development of diverse social and political systems in the Western hemisphere. For History majors and minors, this is designated as a World history course. (social science) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111 and COR 100 or any college-level history course

HST 292 The West and the World: Cross-Cultural Encounters in the Medieval World
4 hours; 4 credits
A comparative and cross-cultural study of the consequences of encounters among pagans, Western and Eastern Christians, Jews, and Muslims in the Middle Ages. This course examines the diversity of the medieval world through patterns of exchange, interaction, and cultural fusion. The impact of conquest and settlement, cultural imperialism, and religious conversion will be discussed together with the nature of multicultural societies in the Middle Ages. For History majors and minors, this is designated as a world history course.
Prerequisites: ENG 111 and COR 100 or any college-level history course

HST 300 Historiography
4 hours; 4 credits
An introduction to key analytical concepts, schools of historiography, and great historians through the centuries, as well as major theories, methods, and historical interpretations. Required for History majors, open to all students.
Prerequisites: ENG 151, HST 200, and an additional 200-level history course

HST 305 Women in Latin America
(Also WGS 305)
4 hours; 4 credits
This course traces the history of women in Latin America from the late colonial era to the present. Women's lives in Latin America challenge many common assumptions about gender learned in the United States. Latin America is a region where patriarchal legal systems exist alongside economic enclaves owned and operated almost completely by women. Our goal will be to map out the differences between and commonalities among Latin American women's lives and understand how these lives changed over time. Our exploration of the question of change leads us to examine as well the major political, economic, and social trends in Latin American history, asking how women's choices contributed to them, as well as how women's lives were affected by them. For history majors and minors, this is designated a World History course.
Prerequisite: Any 200-level history course and ENG 151

HST 307 Medieval England
4 hours; 4 credits
An examination of various aspects of English history during the Middle Ages, with special emphasis on the period from the Norman conquest (11th century) to the 14th century. The course is interdisciplinary in approach and will draw upon a wide variety of reading materials, historical and literary, to be supplemented by slide lectures in medieval English art and architecture. For History majors and minors, this is designated as a pre-1700 history course.
Prerequisites: Any 200-level history course and ENG 151

HST 315 The European Discovery of America and the Encounter with the Native Peoples: 1492 to 1581
4 hours; 4 credits
A study of the European discovery of America and the conquest of the native peoples up to the establishment of an imperial system in 1581. Emphasis will be placed on
the issue of the “discovery” by Columbus in 1492; the impact of America on European thought; the character of the Spanish conquests of the Caribbean, Mexico, and Peru; the role of the Catholic church in Hispanicizing the culture of those regions; and the creation of an imperial system. For History majors and minors, this is designated as either a pre-1700 history course or a world history course.

Prerequisites: Any 200-level history course and ENG 151

HST 317 The Medieval Balkans and the Ottoman Turks: 1204-1481
4 hours; 4 credits
An examination of the history of the Balkans and Asia Minor (modern Turkey) between the years 1204-1481 CE. The decline of the Byzantine Empire, the ancient power in the region, set in motion a struggle for supremacy that ended with the emergence of the Ottoman Empire as a world power. This course discusses this historical process and the means by which competing states attempted to lay claim to concepts of world empire. For History majors and minors, this is designated as a pre-1700 course.

Prerequisites: Any 200-level history course and ENG 151

HST 318 Themes in Byzantine History
4 hours; 4 credits
This course examines themes in the history and culture of the medieval Eastern Roman or Byzantine Empire (Byzantium). It discusses important political, social, and cultural developments; analyzes the catalysts for change, both internal and external; discusses the interaction of Roman political ideology, Christianity, and ancient Greek culture; and assesses the impact of Byzantium on other cultures as well as on its own peoples. For History majors and minors, this is designated as a pre-1700 history course.

Prerequisites: Any 200-level history course and ENG 151

HST 319 Medieval Cities
4 hours; 4 credits
An examination of aspects of the history and culture of medieval cities between 300-1200 CE from a comparative perspective. Starting with the transformation of ancient urban culture under the Christian Roman Empire, this course compares and contrasts urban life in three areas of the medieval world: Western Europe, Byzantium, and the Islamic Middle East. Particular emphasis is placed on: concepts of “the city”; the state and the city; the impact of established religion; the urban economy; civic government and institutions; change and continuity; patterns of daily life; and causes of urban decline and revival. For History majors and minors, this is designated as a pre-1700 course.

Prerequisites: Any 200-level history course and ENG 151

HST 320 Topics in Ancient and Medieval History
4 hours; 4 credits
Europe after the fall of Rome to the rise of the nation-state. The emergence of feudal classes, the Catholic church and the state, the rise of medieval cities, East-West relations, Islam and the Byzantine Empire, political theory, and humanism. For History majors and minors, this is designated as a pre-1700 history course.

Prerequisites: Any 200-level history course and ENG 151

HST 321 Themes in Classical and Hellenistic History
4 hours; 4 credits
The history and culture of the Greek civilization and from its early times through its expansion in the Hellenistic period. This course discusses important issues in the development of classical Greece and its subsequent encounters with the history and culture of the Ancient Near East and Egypt after the conquest of Alexander the Great. For History majors and minors, this is designated as a pre-1700 history course.

Prerequisite: ENG 151 and any 200-level history course

HST 322 The Late Antique World
4 hours; 4 credits
This course addresses aspects of the history and culture of Late Antiquity (285-641 CE). It examines the historical watershed known as the “End of the Ancient World” and the “Birth of the Middle Ages” by analyzing the transformation of the Later Roman Empire into the medieval worlds of Germanic Europe, Byzantium, and Islam. Particular emphasis is placed on concepts of monotheism and universalism in an age of diversity and innovation; the synthesis of Christianity and Classical culture; imperial autocracy and the Christian church; social and intellectual changes; the nature of the economy and problems of imperial defense; and the collapse and transformation of the Roman State and emergence of its successors. For History majors and minors, this is designated as a pre-1700 history course.

Prerequisites: Any 200-level history course and ENG 151

HST 323 Themes in Roman Republican and Imperial History
4 hours; 4 credits
The history of Rome, from village to empire, through the discussion of political as well as social, economic, and cultural issues. For History majors and minors, this is designated as a pre-1700 course.

Prerequisites: ENG 151 and any 200-level history course

HST 324 Environmental History
(Also GEG 324)
4 hours; 4 credits
An examination of the field of environmental history throughout the world, which is broadly defined as the study of humanity's relationships with the rest of nature over time. The course takes a global approach to the important problems, questions, and topics addressed by environmental historians, including landscape change, property regimes, deforestation, pollution, colonialism, disease, urbanization, resource conflict, climate change, natural disasters, conservation, preservation, sustainability, environmentalism, and environmental justice. For History majors and minors, this is designated as a world history course.

Prerequisites: Any 200-level history course and ENG 151

HST 325 The Silk Road
4 hours; 4 credits
An exploration of the rise, flourishing, and fading of the Silk Road, the series of long-range trade routes which linked Eastern, Western, and Southern Asia with Europe and Africa, from the first to the fifteenth centuries C.E. Beyond facilitating the transfer of luxury goods, such as Chinese silk, Indian gems and spices, Roman glass, and Central Asian jade throughout the Eastern Hemisphere, the establishment of these trade routes led to technological, artistic, and religious exchanges which profoundly changed the Afro-Eurasian world. This course examines topics such as the relationship between nomadic peoples and sedentary empires, elite desires for exotic goods, the diffusion of Hellenistic art to South and Central Asia, and the spread of Buddhism and Islam. The experiences of individual Silk Road travelers, including women, merchants, warriors, monks, and slaves are also considered. Contemporary issues addressed may include the re-discovery of the Silk Road, the sometimes-controversial role played by early-twentieth century archeologists in unearthing Silk Road treasures, and current threats to Silk Road cultural heritage. For History majors and minors, this is designated as a world history or pre-1700 course.
Prerequisites: Any 200-level history course and ENG 151

HST 327  The World of Late Imperial China
4 hours; 4 credits
Cultural, social, economic, and political cultural life in China during the late Ming dynasty and early Qing dynasty (ca. 15th to 18th centuries). Its chief aim is to give students already familiar with Chinese history an appreciation of late Chinese imperial civilization beyond political events and the historical narrative. For History majors and minors, this is designated as a world history course.
Prerequisites: Any 200-level history course and ENG 151

HST 328  Early Modern Europe
4 hours; 4 credits
A study of the social and ideological forces that have created modern Europe from the collapse of feudal Europe to the end of the 18th century, including the Renaissance and Reformation, the rise of capitalism, the scientific revolution, and the Enlightenment. For History majors and minors, this is designated as a modern European history course.
Prerequisites: Any 200-level history course and ENG 151

HST 330  Nationalist Movements and the Process of Independence in Africa
4 hours; 4 credits
The objective of this course is to provide a broad view of important historical developments on the African continent: nationalist movements and the process of independence. These movements occurred between 1945, at the end of World War II, and 1990, when the entire African continent was decolonized. The course will be divided into two parts: the first will discuss the causes of nationalist movements and the second will focus on the process of independence. For History majors and minors, this is designated as a world history course.
Prerequisites: Any 200-level history course and ENG 151

HST 331  Black Intellectual Thought in the African Diaspora
4 hours; 4 credits
A seminar course that examines the foundations, implementations, and implications of intellectual thought(s) of the African diaspora from the period of slavery in the Americas through the present. For History majors and minors, this is designated as a world history course. (social science) (cont. wld.) (p&d) NOTE: This course satisfies the College Option.
Prerequisites: Any 200-level history course and ENG 151

HST 332  The Age of Revolutions: 1765-1820
4 hours; 4 credits
This course will begin by examining the Enlightenment in Europe and the social and economic changes that resulted from European worldwide colonization. It will focus on the uprisings and revolutions from 1765 to 1820 that broke out in the Old and New Worlds, emphasizing the Great Revolution in France. For History majors and minors, this is designated as a modern European history course.
Prerequisites: Any 200-level history course and ENG 151

HST 333  Colonialism and the African Experience
(Also AAD 333)
4 hours; 4 credits
An examination of the experience of Africans under colonial rule from the average person to traditional chiefs or the aristocratic class. This course analyzes the reactions of various classes of African society to colonial rule, focusing on the methods used by Africans to manipulate European colonial authorities, as well as the colonial response. For History majors and minors, this is designated as a world history course. (social science) (p&d) NOTE: This course satisfies the College Option.
Prerequisites: Any 200-level history course or 200-level African American Studies course and ENG 151

HST 335  Society and Culture in the United States
(Also AMS 335)
4 hours; 4 credits
Major artistic and intellectual developments in the U.S. from the 18th century to the present, and their relationship to changing social and political realities. For History majors and minors, this is designated as a United States history course.
Prerequisites: Any 200-level history course or any 200-level American Studies course and ENG 151

HST 336  Themes in United States History: 1607-1788
4 hours; 4 credits
Selected topics in U.S. history from the colonial period through the establishment of a national government under the Constitution. The course will examine significant political, social, economic, and intellectual developments. For History majors and minors, this is designated as a United States history course.
Prerequisites: Any 200-level history course and ENG 151
HST 337      Early American Republic: 1788-1850
4 hours; 4 credits
An exploration of major developments in the new nation, from the ratification of the Constitution to the Compromise of 1850. Topics will include political culture, the market revolution, westward expansion, the wars with Britain and Mexico, slavery, and reform. For History majors and minors, this is designated as a United States history course.
Prerequisites: Any 200-level history course and ENG 151

HST 338      Themes in United States History:
1877-1914
4 hours; 4 credits
Selected topics in U.S. history from the end of Reconstruction to the nation's emergence as an international power. The course will examine significant political, social, economic, and intellectual developments. For History majors and minors, this is designated as a United States history course.
Prerequisites: Any 200-level history course and ENG 151

HST 339      Themes in United States History:
1914-1945
4 hours; 4 credits
Selected topics in U.S. history from 1914-1945. The course will examine significant political, social, economic, and intellectual developments. For History majors and minors, this is designated as a United States history course.
Prerequisites: Any 200-level history course and ENG 151

HST 340      United States Foreign Policy in the
20th Century
4 hours; 4 credits
The development of U.S. foreign policy from isolationism to empire. The focus will be on the expanding role of the United States in world affairs and the impact of World Wars I and II on contemporary society. For History majors and minors, this is designated as a United States history course.
Prerequisites: Any 200-level history course and ENG 151

HST 344      War and Society in Modern America
4 hours; 4 credits
An examination of the impact of the Cold War and its resulting international tensions upon U.S. society. Among the topics are: the origins of the Cold War; the problem of defining loyalty in a democratic state; the role of the military in the nuclear age; secret intelligence operations and their influence upon a democratic society; and the quest for security in a divided world. All questions will be considered within the framework of an attempt to assess the United States' traditional values and define its national goals. For History majors and minors, this is designated as a United States history course.
Prerequisites: Any 200-level history course and ENG 151

HST 347      Your Parents' America
4 hours; 4 credits
The United States from World War II to the Vietnam War, using parents' reminiscences. A study of the effects of World War II and the Cold War, the growth of mass me-
of the movement, broadly defined. For history majors and minors, this is designated a world history course.
Prerequisites: Any 200-level history course and ENG 151

**HST 361 The Heritage of Marcus Garvey and W.E.B. DuBois**
(Also AAD 361)
4 hours; 4 credits
Marcus Garvey, the man and the idealist, his influence on African American consciousness; W.E.B. DuBois, the man and the thinker, his influence on African American consciousness and Pan-Africanism. For History majors and minors, this is designated as a United States history course. (social science) (p&d) NOTE: This course satisfies the College Option.
Prerequisites: Any 200-level history course and ENG 151

**HST 370 The Middle East and Europe**
4 hours; 4 credits
An introduction to the relations between Western Europe and the non-Western Middle East as they evolved historically. In order to examine the Middle Eastern historical experience, the course begins with Christian conceptions of Islam in the medieval and early modern periods and explores whether and how the Christian representatives of Islam influenced Western discourses on the Middle East in modern times. For History majors and minors, this is designated as a world history course.
Prerequisites: Any 200-level history course and ENG 151

**HST 371 The 1960s in Europe**
4 hours; 4 credits
An examination of the 1960s in Europe, the turbulent and transformative period between the era of decolonization in the 1950s and the descent into economic and political stagnation in the 1970s. In the course of a decade, the seemingly conformist and unchanging societies of the immediate post-Second World War period were shaken by social and political rebellion, leading to the brink of revolution in 1968 and far-reaching transformations in daily life. We will consider the impact of consumer society, sexual liberation, the student rebellions, the rise of feminism, the revolts of 1968 in both East and West, the failure of reform in the Communist Bloc, and the descent of political revolution into terrorism. For History majors and minors, this is designated as a modern European history course.
Prerequisites: Any 200-level history course and ENG 151

**HST 372 The World of Tokugawa Japan**
4 hours; 4 credits
An examination of the material, cultural, and social history of Tokugawa Japan (1603-1868). The course takes a global approach to Japanese history by examining many of the course topics in the light of global early modernity. For history majors and minors, this is designated a world history course.
Prerequisites: Any 200-level history course and ENG 151

**HST 375 Economic History of Soviet Russia**
4 hours; 4 credits
An examination of the creation and development of the Stalinist economic system in the USSR after 1928 and in the European part of the Soviet bloc after 1945. The economic structure and policy will be investigated as both cause and effect of internal policy and Soviet foreign policy, as well as its applicability as a model for development in the Third World. For History majors and minors, this is designated as a modern European history course.
Prerequisites: Any 200-level history course and ENG 151

**HST 376 Nazi Germany**
4 hours; 4 credits
The history of the rise of National Socialism and the Nazi regime in Germany. The course considers the position of Nazism in German History, the heritage of German colonialism and the First World War, the reasons for the failures of German democracy, and the nature of the Nazi dictatorship: the role of Hitler, Nazi state and society, persecution, consent and resistance. For History majors and minors, this is designated as a Modern European history course.
Prerequisites: Any 200-level history course and ENG 151

**HST 382 War and Society**
4 hours; 4 credits
An introduction to the study of war. The central focus of the course will examine why wars begin, how they are won and lost, and what kind of impact war has had on recent Western history.
Prerequisites: Any 200-level history course and ENG 151

**HST 384 Social and Political Ideologies in the Modern World**
4 hours; 4 credits
A survey of the major social and political ideologies and cultural movements that developed from the French Revolution to the present, analyzing their historical context and content. Topics include liberalism, conservatism, socialism, nationalism, imperialism, communism, fascism, feminism, and anti-colonialism. For History majors and minors, this is designated as a modern European history course.
Prerequisites: Any 200-level history course and ENG 151

**HST 386 The Recovery of Women’s Past**
(Also WGS 386)
4 hours; 4 credits
An examination of the history of women, beginning with ancient and classical notions of patriarchy in Mediterranean and Near Eastern cultures. Review of Jewish, Christian, and Islamic prescriptions about women as a basis for understanding the changes in modern Western history. Approximately half of the course will examine the past two centuries when women’s movements, feminisms, gender analysis, and sexual liberation evolved. For History majors and minors, this is designated as a modern European history course. (social science) (p&d) NOTE: This course satisfies the College Option.
Prerequisites: Any 200-level history course and ENG 151

**HST 388 Imperialism**
4 hours; 4 credits
The history and analysis of modern imperialism. Students will survey major theorists of imperialism from Hobson, Lenin, and their critics to the present. The range of theories of imperialism will be tested by applying them to the history of Western expansion, principally in the past cen-
tury. For History majors and minors, this is designated as a modern European history course.

Prerequisites: Any 200-level history course and ENG 151

**HST 389** Themes in American Women’s History
(Also WGS 389)
4 hours; 4 credits
An exploration of selected themes in American women’s history from the Colonial era to the present. This course, which is organized either around a chronological period, a thematic topic, or a geographical region, also examines women’s historical methodology and literature. For History majors and minors, this is designated as a United States history course. (social science) (p&d) NOTE: This course satisfies the College Option.
Prerequisites: Any 200-level history course and ENG 151

**HST 395** Foundations of Modern Society
4 hours; 4 credits
The rise of the modern state system, the origins of capitalism, the religious wars; the emergence of a secular society.
Prerequisites: Any 200-level history course and ENG 151

**HST 401** Seminar in Advanced Historical Study
4 hours; 4 credits
The research seminar for the History major, in which each student will produce an original paper that is based upon primary sources and situated in the relevant secondary literature. Students will build upon methods and content learned in prior courses. Topics for the seminar will vary according to the instructor’s interests and expertise.
Prerequisites: HST 200, HST 300, and any additional 300-level history course

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**Information Systems and Informatics (BS)**

(Bachelor of Science)

Interdisciplinary Program

Directors:

Professor Soon Chun, School of Business, Building 3N, Room 210
Associate Professor Zhanyang Zhang, Department of Computer Science, Building 1N, Room 206.

The program in Information Systems and Informatics, offered as an interdisciplinary collaboration between the Departments of Marketing and Computer Science, provides students with core business and technical competencies to traverse the boundary between management and computer information technology. Students learn to design, develop, and implement state-of-the-art information systems to support managerial decision making, statistical modeling, and advanced analytics. The program prepares students for careers as business and systems analysts, designers and developers; data administrators; information systems consultants; and managers in information technology.

The curriculum is based upon the guidelines provided by several professional associations including AACCSC

(The Association to Advance Collegiate Schools of Business), ABET (the Accreditation Board for Engineering and Technology), and ACM (American Computing Machinery).

A minimum GPA of 2.5 is required for admission to and continuation in the Information Systems major and for graduation. There is no minimum GPA requirement for students enrolling in individual courses.

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**Information Systems and Informatics (BS)**

**Pre-Major Requirements: 33-36 credits**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 114</td>
<td>Introduction to Accounting I</td>
<td>4</td>
</tr>
<tr>
<td>BUS 160</td>
<td>Business Law I</td>
<td>3</td>
</tr>
<tr>
<td>CSC 126</td>
<td>Introduction to Computer Science</td>
<td>4</td>
</tr>
<tr>
<td>BUS 215</td>
<td>Information Management</td>
<td>4</td>
</tr>
<tr>
<td>MGT 110</td>
<td>Information Structures for Business</td>
<td>3</td>
</tr>
<tr>
<td>ECO 111</td>
<td>Microeconomics</td>
<td>4</td>
</tr>
<tr>
<td>MGT 230</td>
<td>Organizational Theory and Management</td>
<td>3</td>
</tr>
<tr>
<td>ECO 230/</td>
<td>Introduction to Economic and</td>
<td>4</td>
</tr>
<tr>
<td>MGT 230</td>
<td>Managerial Statistics</td>
<td></td>
</tr>
</tbody>
</table>

In addition to the course taken to satisfy Mathematical and Quantitative Reasoning (RMQR), students must take an additional math course from the following list:

- MTH 221 Applied Finite Mathematics and Business Calculus 4 credits
- MTH 229 Calculus Computer Laboratory 1 credit
- MTH 230 Calculus I with Pre-Calculus 6 credits
- MTH 229 Calculus Computer Laboratory 1 credit
- MTH 231 Analytic Geometry and Calculus 3 credits
- MTH 232 Analytic Geometry and Calculus II 3 credits

Note: Students should take the highest-level mathematics course for which they qualify. Student may be required to take MTH 123 to fulfill the pre- or corequisites for CSC 126, MTH 221, or MTH 230; and/or MTH 130 for MTH 231.

**Major Requirements: 35 credits**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISI 205</td>
<td>Data Communications and IT Infrastructure</td>
<td>4</td>
</tr>
<tr>
<td>ISI 352</td>
<td>Introduction to Systems Analysis and Design</td>
<td>4</td>
</tr>
<tr>
<td>ISI 490</td>
<td>Capstone Project in Info Systems</td>
<td>4</td>
</tr>
<tr>
<td>CSC 226</td>
<td>Web Database Applications</td>
<td>3</td>
</tr>
<tr>
<td>CSC 315</td>
<td>Introduction to Database Management Systems</td>
<td>4</td>
</tr>
</tbody>
</table>

In addition to the major requirements each student chooses one area of concentration.

**Concentration One: 16 credits**

Choose three courses from the following and one course from Concentration Two.

- ISI 315 Information Security & Risk Management 4 credits
- ISI 334 Business Intelligence and Analytics 4 credits
- ISI 364 Enterprise Computing Strategies 4 credits
- ISI 374 Information Systems Project Management 4 credits
Concentration Two: 16 credits

CSC 421 Security
CSC 424 Database Management Systems
CSC 438 Mobile Application Development

And

One course chosen from the Concentration 4 credits

Total credits: 120 credits

Liberal Arts and Sciences Requirement
Since most business courses and computer science courses are non-liberal arts and sciences courses, students in this program should pay special attention to this requirement. At least 60 credits of the 120 credit total must be in this area.

Information Systems and Informatics Courses

ISI 205 Data Communications and IT Infrastructure
4 hours; 4 credits
This course covers topics related to both computer/systems architecture and communication networks, with an overall focus on IT infrastructure services and capabilities. Includes organizational computing infrastructure components and architecture such as hardware, operating systems, networking, data centers, cloud-based systems, Service Oriented Architecture, mobile infrastructure, and others. Also includes internet protocols and infrastructure standards, security and risk management. Not open to students who have completed BUS 205.
Prerequisite: MTH 123 or higher and BUS 215

ISI 300 Information Structures for Business
5 hours; 4 credits
This course covers basic data structures. Topics covered in this course include classes, exception handling, dynamic memory management, and fundamental data structures including vectors, linked lists, and queues. Standard library classes will be used to implement various data structures in order to solve various business problems. Algorithmic development and analysis will be illustrated using advanced sorting and searching algorithms. Not open to students who have completed CSC 326.
Prerequisites: CSC 126, BUS 215

ISI 315 Information Security and Risk Management
4 hours; 4 credits
This course is an introduction to the principles of information risk analysis, security controls, security planning and management. This course provides the foundation for understanding the key technical and managerial issues associated with cyber threats and risks to information assets, security and compliance requirements, faced by IT-intensive business environments. It covers methodologies for risk assessment, security planning, mechanisms for protection against risks and responses to security incidents, maintaining acceptable risks and compliance requirements and procedural ethics. Not open to students who have taken BUS 315.
Prerequisite: BUS 215

ISI 334 Business Intelligence and Analytics
4 hours; 4 credits
This course introduces the tools and techniques of data analytics for gaining business intelligence to support reliable decision making. It introduces data warehouse and data marts concepts and data mining techniques for analytical reporting, trend analysis, performance analysis, what-if analysis, and predictive analysis. Students will learn the different aspects of business data analytics, such as identifying data sources, extracting, combining, exploring, analyzing, modeling, visualizing, and interpreting data. Not open to students that have completed BUS 334.
Prerequisites: CSC 315 and ECO/MGT 230

ISI 352 Introduction to Systems Analysis and Design
4 hours; 4 credits
The course covers the concept of IS system development life cycle and introduces methodologies for addressing business needs, articulating business requirements for technology solutions, specifying alternative approaches to acquiring technology capabilities needed to address business requirements, and specifying the requirements for information systems solutions. Not open to students that have completed BUS 352.
Prerequisites: CSC 315 and ACC 114

ISI 364 Enterprise Computing Strategies
4 hours; 4 credits
This course explores the design, selection, implementation, and management of enterprise architecture solutions. The focus is on architecture and infrastructure alternatives that can fulfill the strategic vision of a business. Students learn current infrastructure solutions, such as Enterprise Systems, Service Oriented Architecture and Cloud infrastructures, and learn the technical and management challenges in distributed enterprise computing environments. The relevant data integration and migration strategies, mobile and social strategies, and application and service integration issues will be covered. Factors influencing the choice of enterprise IT solutions, such as total cost of ownership calculation, IT investment, security/privacy risks, and audit compliance will be discussed and analyzed.
Prerequisites: BUS 215

ISI 374 Information Systems Project Management
4 hours; 4 credits
This course discusses the processes, methods, techniques, and tools that organizations use to manage their information systems projects. The course covers a systematic methodology for initiating, planning, executing, controlling, and closing projects. Students will learn various types of technologies including project management software as well as software to support group collaboration, and how to propose, plan, acquire, and manage the required resources necessary for leading the IS projects.
Prerequisites: BUS 215

**ISI 490 Project in Information Systems and Informatics**
4 hours; 4 credits
A capstone project course in IS, including strategies in the development of IS applications. Students will develop a significant IS project including planning, analysis, design, and implementation. Students will investigate a real-life application, analyze business requirements, design systems architecture, and deliver a working system.
Prerequisites: ISI 352

**Integrated Science**
Department of Engineering Science and Physics, Building 1N, Room 226
Chairperson and Professor Neophytos (Neo) Antoniades
Department of Chemistry, Building 6S, Room 235
Chairperson and Professor Qiao-Sheng Hu

**INS 100 Integrated Physical Science I**
3 hours; 3 credits
For students whose major interests are not in science. Elements of astronomy, early and present-day theories of the solar system. Development of the laws and theories basic to the study of humankind’s physical world: force and motion, gravitation, energy, properties of matter, heat, electricity, and magnetism. Students may not receive credit for both INS 100 and AST 100 Contemporary Theories of the Solar System. (science)
Prerequisite: MTH 020 or an appropriate score on the CUNY Mathematics Assessment Test
Corequisite: INS 101

**INS 101 Integrated Physical Science I Laboratory**
2 laboratory hours; 1 credit
Laboratory experiments and demonstrations illustrative of subject matter of INS 100 and the scientific method. Experiments on motion of the Earth and moon; free fall; Newton’s laws; properties of matter, heat, electricity, and magnetism. (science) NOTE: This course has a material fee.
Pre- or corequisite: INS 100

**INS 110 Integrated Physical Science II**
3 hours; 3 credits
Structure of the atom; the periodic table; the chemistry of carbon, plastics, food, water, air, drugs, nuclear power; the study of the Earth, rocks, and minerals; volcanism, weathering, erosion, fossils, and Earth history. (science)
Prerequisite: MTH 020 or an appropriate score on the CUNY Mathematics Assessment Test

**INS 111 Integrated Physical Science II Laboratory**
2 laboratory hours; 1 credit
Preparation and study of simple chemicals, identification of rocks and minerals, elementary laboratory techniques. (science)
Pre- or corequisite: INS 110

**International Studies**
(Bachelor of Arts and Minor)
Interdisciplinary Program
Director: Associate Professor Jane Marcus-Delgado

The International Studies major is an interdisciplinary major with a predominantly social science emphasis—history, political science, economics—that allows for a measure of geopolitical specialization. Students choose courses from the categories of economics/geography, culture and society, and political science. They also select classes that focus on a geographical area: Africa/Middle East, Asia, Caribbean/Latin America, or Europe.

Study Abroad: International Studies majors are strongly urged to plan and schedule a semester of study abroad in their junior or senior year through the Center for International Service.

Internship: International Studies majors are urged to plan and schedule an internship with an international organization through the Division of Humanities and Social Sciences.

**International Studies (BA)**
For the major in International Studies, two and one-half years of college-level study of the same language (one semester beyond the 215-level course) or evidence of proficiency at that level is required. All languages qualify.

**Pre-Major Requirements: 12 credits**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INT 100</td>
<td>International Studies</td>
<td>3 credits</td>
</tr>
<tr>
<td>and three of the following courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANT 100</td>
<td>Understanding Our Worlds</td>
<td>3 credits</td>
</tr>
<tr>
<td>ECO 101</td>
<td>Introduction to Economics</td>
<td>3 credits</td>
</tr>
<tr>
<td>GEG 100</td>
<td>Introduction to Geography</td>
<td>3 credits</td>
</tr>
<tr>
<td>HST 100</td>
<td>Past and Present</td>
<td>3 credits</td>
</tr>
<tr>
<td>POL 103</td>
<td>Understanding the Political World: An Introduction to Political Science</td>
<td>3 credits</td>
</tr>
</tbody>
</table>

**Major Requirements: 36 credits**
Students will demonstrate fluency in a language other than English by successfully completing five semesters of study in a foreign language or by demonstrating proficiency through examination. Within the major requirements at least 12 credits must be at the 300 level or above.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INT 367</td>
<td>Globalization and the World System</td>
<td>4 credits</td>
</tr>
<tr>
<td>And</td>
<td>Five Courses chosen from the following two categories: 20 Credits</td>
<td></td>
</tr>
</tbody>
</table>

1. Economics, Politics, and Geography
BUS 200 Introduction to International Business
ECO 250 International Economics
GEG 225 Cultural Geography
GEG 250 Conservation and Humanity
ECO/GEG 252 Economic Geography

Department of Engineering Science and Physics, Building 1N, Room 226
Chairperson and Professor Neophytos (Neo) Antoniades
Department of Chemistry, Building 6S, Room 235
Chairperson and Professor Qiao-Sheng Hu
GEG 260  Urban Geography
ECO 256  Analysis of Underdeveloped Areas
ECO 291  Political Economy of War and Peace
ECO 370/  International Finance
FNC 300
POL 240  Comparative Government
ECO/POL  International Political Economy
251
POL 259  International Security
POL 260  International Politics: In Search of New World Order
POL 261  International Organizations
POL/GEG  Political Geography
264
POL 303  Recent Political Theory
POL 342  Comparative Politics of Developing Countries
POL 343  Democracy and Democratization
POL 349  Comparative Human Rights
POL 364  International Negotiations and Conflict Management
POL 365  Current American Foreign Policy
POL 375  International Law
POL 394  CUNY World Affairs Internship
HST 340  U.S. Foreign Policy in the 20th Century
SOC 260  Class, Status, and Power
SOC 280  Sociology and Politics
SOC 340  Ethnicity and Immigration
2. Culture and Society
AAD 225  Contemporary Third World Literature
ANT 201  Cultural Anthropology
ANT/COM  Multicultural Literacy
225
ANT 365  Political Anthropology
ANT 370  Urban Anthropology
ANT 460  Personality and Culture
COM 200  Media and Culture
COM/SOC  Mass Media in Modern Society
374
COM 420  Global Media
CIN 204/  Politics, Cinema, and Media
POL 219
CIN 240  Third World Cinema
CIN 408  Global Cinema
ENH 206  Classics of Modern World Literature
ENH 209  Literature and Global Cultures
ENL 329  Migration and Disporas in Literature and Cultures
ENL 396  Studies in Global Literature I
ENL 397  Studies in Global Literature II
HST 239/  World Civilization II
SLS 241
HST 285  The World of the 21st Century
HST 350  Comparative Urban History
HST 382  War and Society
HST 388  Imperialism
PHL 243  Comparative Religion
PSY 213  Cross-Cultural Psychology
SOC 200  Sociological Theory
SOC/ANT/  Food, Self, and Society
WGS 312
SOC 340  Ethnicity and Immigration
WGS/INT  Gender in the Contemporary World
203
And
Three courses chosen from one of the of the following geographical areas:
A. Three African/Middle East area courses that emphasize comparative or general issues chosen from the following:
AAD 223  Comparative Black Literature
AAD 247/  Peoples and Cultures of Africa
HST 266
AAD 253/  African Politics
POL 253
AAD 260/  History of Africa
HST 207
AAD 333/  Colonialism and the African Experience
HST 333
HST 222  Islam: Religion and Culture
HST 235  Modern Middle East
HST 264  The African Dispora
HST 330  Nationalist Movements and the Process of Independence in Africa
HST 370  The Middle East and Europe
POL 252  Middle East Politics
B. Three Asian area courses that emphasize comparative or general issues chosen from the following:
CIN 203  Chinese Cinema
CHN/LNG  Languages in Contrast: English and Chinese
ECO 257  The Japanese Economy
ENH 207  Classics of Asian Literature
ENL 335  Modern East Asian Literature
HST 204  Introduction to Asian Civilization
HST 206  Modern China
HST 209  Modern Japan
HST 210  History of Modern India
HST 211  Japanese Civilization
HST 213  Chinese Civilization
HST 234  Asian Tigers since 1945
HST/AMS  Vietnam and America: 1945-1975
258
PHL 344  Eastern Philosophy
POL 353  China: Politics and Foreign Relations
PSY 217  Psychology and Chinese Culture
C. Three Caribbean/Latin American area courses that emphasize comparative or general issues chosen from the following:
AAD 223  Comparative Black Literature
AMS/ART  Modern Latin American Art
205
HST 208  Modern Art in Latin America
HST 265/  History of the Caribbean
AAD 265
HST 291  The Atlantic World
HST 315  The European Discovery of America and the Encounter with Native Peoples: 1492-1581
INT 201  Latin American Perspectives
POL 250  Latin American Politics
SOC/ANT/  Power and Society in Latin America
consultation with the members of the International Studies Advisory Committee.

**International Studies Minor**

**Minor Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INT 100</td>
<td>International Studies</td>
<td>3</td>
</tr>
<tr>
<td>ECO 250</td>
<td>International Economics</td>
<td>4</td>
</tr>
<tr>
<td>POL 260</td>
<td>International Politics: In Search of a New World Order</td>
<td>4</td>
</tr>
<tr>
<td>HST 239/</td>
<td>World Civilization II</td>
<td>4</td>
</tr>
<tr>
<td>SLS 241</td>
<td>Students who minor in International Studies must take</td>
<td></td>
</tr>
<tr>
<td></td>
<td>INT 200 The World and the West: Contemporary Issues</td>
<td></td>
</tr>
</tbody>
</table>

Two years of college-level study of the same language (one semester beyond the 213-level course) or evidence of proficiency at that level. All languages satisfy the requirement.

**International Studies Courses**

**INT 100  International Studies**

3 hours; 3 credits

This course examines the impact and implications of today’s dynamic international context for nations and their citizens. To operate in this global context, citizens, corporations, and governments must know other cultures and political-economic systems and how global forces influence domestic activities, both public and private. Analyzing the social, cultural, economic, and current political characteristics of the international environment, students will learn how these characteristics may affect their lives and choices. (social science) NOTE: This course satisfies the College Option.

**INT 200  The World and the West: Contemporary Issues**

4 hours; 4 credits

This interdisciplinary course will analyze contemporary issues in the dynamic relationship between countries and cultures described as “the West” and the “non-West.” Social, cultural, historical, political, and economic factors affecting this relationship will be considered. This course provides students the opportunity, skill, and knowledge to acquire and interpret information necessary for comparing and analyzing alternative models of “the West” and the rest of the world, and the dynamic relationship between them. Students will examine news reports of current international issues involving such regions as Latin America, Africa, Eastern Europe, and Asia. (social science) (cont. wld.) (p&d) NOTE: This course satisfies the College Option.

Prerequisites: ENG 151 and COR 100

**INT 201  Latin American Perspectives**

4 hours; 4 credits

This course will analyze how Latin America has historically interacted with the West, and the West with Latin America. Emphasis will be placed on the historical legacies of the encounters between the West and Latin America, the geographical/social diversity of this area, an appreciation of the region’s artistic and literary contribu-
tions, as well as the technological challenges facing this part of the world today. (social science) (cont. wld.)
NOTE: This course satisfies the College Option.
Prerequisites: ENG 151 and COR 100

INT 203 Gender in the Contemporary World
(Also WGS 203)
4 hours; 4 credits
An introduction to issues of gender worldwide. This inter-
disciplinary course draws on literary, cultural, social sci-
entific, and historical approaches to explore the signifi-
cance of gender in societies in Africa, Asia, Latin Ameri-
can, and the Middle East, and to enable students to think
critically about gender issues. (social science) (cont. wld.)
(p&d) NOTE: This course satisfies the College Option.
Prerequisites: ENG 151 and COR 100

INT 230 Aspects of Contemporary China
(Also LNG 230)
4 hours; 4 credits
An introduction to various aspects of contemporary Chi-
na, such as political and economic systems, philosophy,
religion, music, drama, or medicine. It will be taught in
English. (cont. wld.) (TALA) (p&d) NOTE: This course
satisfies the College Option.
Prerequisites: ENG 151 and COR 100

INT 305 Power and Society in Latin America
(Also SOC 305/ANT 305)
4 hours; 4 credits
This course will offer students a general overview of the
political, economic, and cultural forces shaping Latin
American societies. It will focus particular attention on
social inequalities and the effects of contemporary global
changes on the region. Readings and class discussions
will address both specific countries and trends affecting
the region more broadly.
Prerequisite: SOC 200 or SOC 240 or SOC 260 or ANT
201

INT 307 Caribbean Societies
(Also ANT 307/SOC 307)
4 hours; 4 credits
An introduction to the sociological and anthropological
literature on Caribbean societies. The main objective is
to acquaint students with the most important economic,
political, and social aspects of the region. Using ethno-
graphies, the course will focus on the development of
plantation society, nation-state formation, race and eth-
nicity, gender, political economy, and transnationalism.
Class discussions will also address the issues of eco-
nomic development, human rights, globalization, and
U.S. foreign policies on the region. This is a reading and
writing intensive course in which students are expected to
conduct primary research.
Prerequisite: INT 200 or INT 203 or any ANT or SOC
200-level course

INT 332 Social Movements and Social Justice
Also AAD 332/SOC/ANT 332
4 hours; 4 credits
An introduction to key sociological theories and concepts
in the study of social movements. Addressing various
questions, including: how have powerless groups of peo-
ple organized social movements to try to improve their
lives and change the society in which they lived? What
did these movements accomplish in terms of improving
people's day-to-day lives? What role has policing and
police played in social movements? Prerequisites: ENG
151 and SOC/ANT 203 or SOC 212 or SOC 200

INT 367 Globalization and the World System
(Also SOC 367/ANT 367)
4 hours; 4 credits
This course explores major issues and current ap-
proaches in sociological thinking on globalization and the
world system. Globalization will be examined as a mul-
tifaceted phenomenon, encompassing changing eco-
nomic and political forces and the movement of people,
ideas, images, and technologies across national bounda-
ries. Particular attention will be given to how global
forces structure inequalities both across nations and
within them.
Prerequisites: SOC 200 or SOC 240 or SOC 260 or ANT
201

Italian Studies

(Bachelor's of Arts, Minor)
Department of World Languages and Literatures, Build-
ing 2S, Room 109
Chairperson and Associate Professor Gerry Milligan

Italian Studies (BA)

Italian Studies Four-Year Plan

Italian Studies (7-12) Four-Year Plan

1. Track One: Italian Studies:

Pre-Major Requirements: 16 credits
Four semesters of college-level language study (ITL
113, ITL 114, ITL 213, ITL 215) or the equivalent (ITL
120, ITL 220, ITL 215). Students who enter the Col-
lege with ability in Italian take a placement examination
to determine the level at which they should begin lan-
guage study. These courses may also be used to sat-
ify general education requirements.

Major Requirements: 36 credits
Students majoring in Italian Studies must complete the
following requirements:

ITL 313 Advanced Communication
Skills 4 credits

ITL 320 Italian Civilization and Culture
Course 4 credits

ITL 341 Literary Survey I: Medieval
Renaissance 4 credits

ITL 342 Literary Survey II: Modern
Italian Studies 4 credits

An additional 20 credits of Italian courses at the 300- or 400-level

One course may be taken outside of the department
with the permission of the Italian Studies advisor.
These courses may be offered in fields such as English,
History, Art History, or Political Science. When neces-
sary, one course may be completed as an independent

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study on an approved topic with a CSI faculty member. Certain courses currently offered that are strongly suggested for majors include HST 249 Italian American History, HST 276 History of Italy, ENL 399 Themes in Literature: Italian/American Experience in Literature, ART 300 Medieval and Renaissance Art.

2. Track Two: Preparation for Teaching Italian Studies (Grades 7-12):
In addition to the requirements for the Italian Studies major, students wishing to be recommended by the College for teacher certification must complete the Adolescence Education sequence. To complete the sequence in two years it must be begun by the beginning of the junior year. For admission and continuation in the Adolescence Education sequence and all adolescence education courses, students must have a minimum cumulative GPA of 3.0.

EDS 201 Social Foundations of Secondary Education 4 credits
EDS 202 Psychological Foundations of Secondary Education 4 credits
EDS 305 The Pedagogy of Secondary School in Foreign Language 4 credits
EDS 319 The Secondary School Curriculum in Foreign Language 4 credits
EDS 400 Student Teaching in Secondary Education 6 credits
EDS 401 Reflection and Analysis in Student Teaching in Secondary Education 2 credits

See also Education/Adolescence Education.

Electives: 2-26 credits
Total Credits Required: 120

Liberal Arts and Sciences Requirement
Most education courses are non-liberal arts and sciences.

Honors
To graduate with honors in Italian Studies a student must have a 3.5 grade point average in Italian courses and must complete a special project under the direction of a faculty member. A faculty committee will vote on the recommendation for honors.

Minor in Italian
At least 12 credits of courses in ITL courses at the 200 level or above.

Italian Courses
All students with prior training in Italian must take a proficiency examination to determine placement at an appropriate level.

ITAL 101 Italian Conversation I
2 hours; 2 credits
Practical Italian for business, community relations, travel, and simple technical application. For beginners with no previous knowledge of the language. Regular attendance in the World Languages and Literatures Media Center is required.

ITAL 102 Italian Conversation II
2 hours; 2 credits
A continuation of ITL 101. Regular attendance in the World Languages and Literatures Media Center is required.
Prerequisite: ITL 101 or equivalent

ITAL 112 Basic Italian I
3 hours; 3 credits
A beginning course in the fundamentals of expression and communication for those who have had no previous work in the language. Regular attendance in the Modern Languages and Literatures Media Center is required. Not open to students who have taken ITL 113 or ITL 120.
(Alloign lang.) (FWGR)
Prerequisite: Passing the CUNY Assessment Tests in Reading and Writing

ITAL 113 Basic Italian I
4 hours; 4 credits
A beginning course in the fundamentals of expression and communication for those who have had no previous work in the language. Regular attendance in the Modern Languages and Literatures Media Center is required. Not open to students who have completed ITL 112.
Prerequisite: Passing the CUNY Assessment Test in Reading and passing the CUNY Assessment Test in Writing

ITAL 114 Basic Italian II
4 hours; 4 credits
A continuation of ITL 112 or ITL 113. Regular attendance in the Modern Languages and Literatures Media Center is required. (Alloign lang.) NOTE: This course satisfies the College Option.
Prerequisite: ITL 112 or ITL 113 or equivalent, Passing the CUNY Assessment Test in Reading and passing the CUNY Assessment Test in Writing

ITAL 120 Intensive Italian I
6 hours; 6 credits
A beginning intensive course in the fundamentals of expression and communication for those who have had no previous work in the language and are interested in pursuing upper-division courses in Italian. By the end of the semester the student will have completed a program that provides a strong basis in the functional literacy in Italian. (Alloign lang.)
Prerequisites: Passing the CUNY Assessment Test in Writing and passing the CUNY Assessment Test in Reading

ITAL 208 Italian for Native Speakers
4 hours; 4 credits
For students fluent in spoken Italian but lacking experience in writing and reading the language.

ITAL 213 Continuing Italian I
4 hours; 4 credits
Grammar review and more intensive training in the fundamentals of expression and communication, both written and oral, based on selected cultural readings. Regular attendance in the World Languages and Literatures Media Center is required. (foreign lang.)

Prerequisite: ITL 114 or equivalent

**ITL 215  Continuing Italian II**  
4 hours; 4 credits  
A continuation of ITL 213 with stress on written and oral composition and on selected cultural and literary readings of intermediate difficulty. Regular attendance in the World Languages and Literatures Media Center is required. (foreign lang.)  
Prerequisite: ITL 213 or equivalent

**ITL 220  Intensive Italian II**  
6 hours; 6 credits  
A continuing intensive course in the fundamentals of expression and communication for those who have successfully completed ITL 120 and are interested in pursuing upper-division courses in Italian. Particular emphasis will be placed on written and oral communication based on selected cultural readings. (foreign lang.)  
Prerequisites: Passing the CUNY Assessment Test in Writing and passing the CUNY Assessment Test in Reading; ITL 120

**ITL 313  Advanced Communication Skills**  
4 hours; 4 credits  
Refinement of written and oral expression through composition, translation, oral reports, and critical study of the Italian grammar based on the analysis of selected literary readings of advanced difficulty. Regular attendance in the World Languages and Literatures Media Center is required. (literature) (TALA) NOTE: This course satisfies the College Option.  
Prerequisites: ITL 215 or equivalent

**ITL 320  Italian Civilization and Culture**  
4 hours; 4 credits  
A survey of major currents in Italian Civilization in the fields of art, literature, and science. (literature) (TALA) NOTE: This course satisfies the College Option.  
Prerequisite: ITL 313

**ITL 325  Italian Experience in the Americas**  
4 hours; 4 credits  
A survey of the major cultural and historical moments that defined Italian immigration into the United States and the Americas. Places specific emphasis on literature written both in English and Italian about the experience of emigration and immigration. (literature) (TALA) NOTE: This course satisfies the College Option.  
Prerequisite: ITL 313

**ITL 330  History of Italian Cinema**  
4 hours; 4 credits  
The purpose of this course is to introduce different periods and movements in Italian Cinema from the Silent era to Ne-Auteur cinema of the early 21st century and the basic elements of film analysis. Areas discussed will include Silent Cinema, Fascist Cinema, Neorealism, Auteur Cinema, Neo-Neorealism, and Neo-Auteur Cinema. Large attention will be dedicated to the films of renowned auteurs such as Rossellini, De Sica, Visconti, Fellini, and Pasolini. In-class screenings will provide a framework for students to produce cogent critical readings and analysis of cinematic text. The course will be offered in Italian.  
Prerequisite: ITL 313

**ITL 340  Introduction to Italian Literature**  
4 hours; 4 credits  
An introduction to major works of Italian literature from the Sicilian school to the contemporaries. (literature) (TALA) NOTE: This course satisfies the College Option.  
Prerequisite: ITL 313 or equivalent

**ITL 341  Literary Survey I: Medieval Renaissance**  
4 hours; 4 credits  
Focuses on the primary literary texts of the Italian Middle Ages and Renaissance, roughly 1250-1600. Authors include Dante, Catherine of Siena, Petrarch, Boccaccio, Alberti, Machiavelli, Ariosto, and Tasso. (literature) (TALA) NOTE: This course satisfies the College Option.  
Prerequisites: ITL 313

**ITL 342  Literary Survey II: Modern Italian Studies**  
4 hours; 4 credits  
An introduction to the major literary works and cultural movements of Italian literature from the eighteenth century to the present. (literature) (TALA) NOTE: This course satisfies the College Option.  
Prerequisites: ITL 313

**ITL 345  Italian Theatre**  
4 hours; 4 credits  
A study of the developments in Italian theatre, from the historical “rediscovery” of the genre in the fifteenth century to today.  
Prerequisite: ITL 313

**ITL 350  Gender in Italian Literature**  
4 hours; 4 credits  
An examination of the complex intersections of gender and literature. In most cases, an emphasis will be placed on women authors in selected periods of Italian literature. (literature) (TALA) NOTE: This course satisfies the College Option.  
Prerequisite: ITL 313

**ITL 352  Themes in Medieval and Renaissance Literature**  
4 hours; 4 credits  
A focused study of literature of the Middle Ages and Renaissance. Course either examines a theme in several works or is limited to a select author from the period. (literature) (TALA) NOTE: This course satisfies the College Option. This course may be repeated for credit.  
Prerequisites: ITL 313

**ITL 353  Themes in Modern and Contemporary Literature**  
4 hours; 4 credits  

A focused study on a specific thematic topic or genre of Modern and Contemporary Italian literature, roughly from 1700 to the present. (literature) (TALA) NOTE: This course satisfies the College Option. This course may be repeated for credit.
Prerequisite: ITL 313

**ITL 360**  Italian Short Story  
4 hours; 4 credits  
A study of development of the genre of the Italian short story from the Middle Ages to its modern forms. (literature) (TALA) NOTE: This course satisfies the College Option.  
Prerequisite: ITL 313

**ITL 370**  Structures of Italian  
4 hours; 4 credits  
An introduction to topics in Italian linguistics. It covers the complex history of Italian and the Italian dialects through a socio-historical lens, and examines the phonetics, phonology, morphology, and syntax of Standard Italian, also with reference to the Italian dialects.  
Prerequisites: ITL 313

**ITL 410**  Dante  
4 hours; 4 credits  
A close examination of Dante's poetic, philosophical, and political writings. (literature) (TALA) NOTE: This course satisfies the College Option.  
Prerequisite: ITL 313 and any ITL 300-level course

**ITL 420**  Italian Literary Renaissance  
4 hours; 4 credits  
A study of major humanist and Renaissance texts from fifteenth and sixteenth century Italian literature with particular attention given to the cultural context of these works. (literature) (TALA) NOTE: This course satisfies the College Option.  
Prerequisite: ITL 313 and any ITL 300-level course

### Language

(See listings under Arabic, Chinese, French, Italian, Spanish)  
Department of World Languages and Literatures, Building 2S, Room 109  
Chairperson and Associate Professor Gerry Milligan  

General courses in the culture and literature of non-English-speaking peoples.

**LNG 156**  Contemporary European Drama  
3 hours; 3 credits  
The works of Pirandello, Brecht, Pinter, Beckett, and Genet as well as such antirealistic movements as theatricalism, epic theater, alienation, the absurd, and cruelty.

**LNG 162**  Western European Culture - France  
3 hours; 3 credits  
An overview of the unique cultural aspects of France, emphasizing language, literature, music, and art. Taught in English. Not to be credited to a major in a foreign language.

**LNG 163**  Western European Culture - Germany  
3 hours; 3 credits  
An overview of the unique cultural aspects of Germany, emphasizing language, literature, music, and art. Taught in English. Not to be credited to a major in a foreign language.

**LNG 164**  Western European Culture - Italy  
3 hours; 3 credits  
An overview of the unique cultural aspects of Italy, emphasizing language, literature, music, and art. Taught in English. Not to be credited to a major in a foreign language.

**LNG 165**  Western European Culture - Spain  
3 hours; 3 credits  
An overview of the unique cultural aspects of Spain, emphasizing language, literature, music, and art. Taught in English. Not to be credited to a major in a foreign language.

**LNG 168**  Latin American Culture  
3 hours; 3 credits  
An overview of the varied cultural aspects of the Latin American countries, emphasizing language, literature,
music, and art. Both European and Pre-Columbian influences will be considered. Taught in English. Not to be credited to a major in a foreign language.

**LNG 230**  
Aspects of Contemporary China  
(Also INT 230)  
4 hours; 4 credits  
An introduction to various aspects of contemporary China, such as political and economic systems, philosophy, religion, music, drama, or medicine. It will be taught in English.  
(cont. wld.) (TALA) (p&d) (TALA) NOTE: This course satisfies the College Option.  
Prerequisites: ENG 151 and COR 100

**LNG 266**  
Women in European Literature to the Renaissance  
(Also WGS 266)  
4 hours; 4 credits  
Women as writers and characters in European literature from classical antiquity to the Renaissance. (literature) (p&d) (TALA) (TALA) NOTE: This course satisfies the College Option.  
Prerequisites: ENG 111, ENG 151

**LNG 267**  
Women in European Literature after the Renaissance  
(Also WGS 267)  
4 hours; 4 credits  
Women as writers and characters in European literature from the Renaissance to modern times. (literature) (p&d) (TALA) (TALA) NOTE: This course satisfies the College Option.  
Prerequisites: ENG 111, ENG 151

**LNG 304**  
U.S. Fiction, Early North American Literature  
(Also AMS 304/ENL 304)  
4 hours; 4 credits  
A study of North American literature to 1830 across a variety of genres, authors, and cultural traditions. For English majors and minors this is designated as a literature, American literature, and genre course.  
Prerequisite: An ENH 200-level course or ENL 290

**LNG 309**  
U.S. Literature in Comparative Contexts  
(Also AMS 309/ENL 309)  
4 hours; 4 credits  
This course examines U.S. literature in a comparative, transnational frame by considering U.S. writing with relation to what lies outside national borders and emphasizing the role of international cultures, literatures, and politics in the development of U.S. writing. The course will cover, variously, hemispheric studies, transatlantic studies (beyond U.S.-British), transpacific studies, and Africa-U.S. studies.  
Prerequisite: An ENH 200-level course

**LNG 315**  
Languages in Contrast: English and Chinese  
(Also CHN 315)  
4 hours; 4 credits  
A systematic comparison of English and Chinese in various respects, e.g. phonology, morphology, syntax, information structure, and writing system. While the two languages differ from each other in many respects, which are the focus of this course, there are universals and general principles that hold true of both of them. The course is intended to cultivate students' ability to appreciate the differences between the two languages on the one hand and to seek the principles that apply to both English and Chinese on the other. (literature) (TALA) (TALA) NOTE: This course satisfies the College Option.  
Prerequisites: ENG 151 and completion of one semester of foreign language or linguistic course or exemption from the Foreign Language requirement of General Education

**LNG 364**  
Anglophone Arab Literature  
(Also ENL 364)  
4 hours; 4 credits  
A study of Arab literature written in English from the nineteenth century to the present. Works will be examined in relation to literary and other cultural-historical contexts. Topics covered may include: nationalism, colonialism and post-colonialism, cultural hybridity and cosmopolitanism, gender issues, diasporic identities, immigration, and ties to the old and new countries. For English majors or minors concentrating in literature, this course fulfills requirements for Literature written by women, American minorities, or writers in Asia (including the Middle East), Africa, Latin America, and the Caribbean. For linguistics, writing, and dramatic literature concentrators, it counts as an elective in the major.  
Prerequisite: An ENH 200-level course or ENL 290

**LNG 367**  
Arab Literature in Translation  
(Also ENL 367)  
4 hours; 4 credits  
A study of Arabic literature in translation covering a variety of genres, authors, cultural traditions, and historical periods. Works will be examined in relation to literary and other cultural-historical contexts. Topics covered may include: the rise of nationalism, colonialism and post-colonialism, hybrid identities, gender issues, national traumas, and dystopias. For English majors or minors concentrating in literature, this course fulfills the requirements for literature in translation. For linguistics, writing, and dramatic literature concentrators, it counts as an elective in the major.  
Prerequisite: An ENH 200-level course or ENL 290

**LNG 387**  
Major World Author I  
(Also ENL 387)  
4 hours; 4 credits  
Intensive study of the works of a major world author. For English majors and minors, this is designated as a literature and literature in translation course. (literature) (TALA) (TALA) NOTE: This course satisfies the College Option.  
Prerequisite: An ENH 200-level course or ENL 290

**LNG 388**  
Major World Author II  
(Also ENL 388)  
4 hours; 4 credits  
Intensive study of the works of a major world author in English translation. For English majors and minors, this is designated as a literature and literature in translation
course. (literature) (TALA) NOTE: This course satisfies the College Option. 
Prerequisite: An ENH 200-level course or ENL 290

**LNG 389  Major World Author III**  
(Also ENL 389) 
4 hours; 4 credits 
Intensive study of the works of a major world author in English translation. For English majors and minors, this is designated as a literature and literature in translation course. (literature) (TALA) NOTE: This course satisfies the College Option. 
Prerequisite: An ENH 200-level course or ENL 290

**LNG 396  Studies in Global Literature I**  
(Also ENL 396) 
4 hours; 4 credits 
Focus on literature from outside the U.S. and Europe. For English majors and minors, this is designated as a literature, Literature in Translation, and Literature written by women, American minorities, or writers in Asia (including the Middle East), Africa, Latin America and the Caribbean. (p&d) (TALA) NOTE: This course satisfies the College Option. 
Prerequisite: An ENH 200-level course or ENL 290

**LNG 397  Studies in Global Literature II**  
(Also ENL 397) 
4 hours; 4 credits 
Focus on literature from outside the U.S. and Europe. For English majors and minors, this is designated as a literature, Literature in Translation, and Literature written by women, American minorities, or writers in Asia (including the Middle East), Africa, Latin America and the Caribbean. (p&d) (TALA) NOTE: This course satisfies the College Option. 
Prerequisite: An ENH 200-level course or ENL 290

**LNG 406  Postwar Italian Cinema**  
(Also CIN 406) 
4 hours; 4 credits 
A study of the political and cultural roots of Neorealism and of the personal style and vision of such postwar directors as Visconti, DeSica, Rossellini, Fellini, Antonioni, and Bertolucci. 
Prerequisites: CIN 210 and ENG 111

**LNG 426  Second Language Learning**  
(Also LING 305) 
4 hours; 4 credits 
Introduction to the study of second language learning, with focus on understanding the nature of the underlying grammatical processes involved, and the ways in which second language learning by adults differs from first language acquisition by children. 
Prerequisites: LING 301

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**Latin Courses**

**LAT 113  Basic Latin I**  
4 hours; 4 credits 
A beginning course in the fundamentals of expression and communication for those who have had no previous work in the language. Regular attendance in the World Languages and Literatures Media Center is required. (foreign lang.) 
Prerequisite: Passing the CUNY Assessment Test in Reading and Writing; closed to native speakers

**LAT 114  Basic Latin II**  
4 hours; 4 credits 
A continuation of LAT 113. Regular attendance in the World Languages and World Literatures Media Center is required. (foreign lang.) NOTE: This course satisfies the College Option. 
Prerequisite: LAT 113 or equivalent. Passing the CUNY Assessment Test in Reading and Writing tests; closed to native speakers.

**LAT 213  Continuing Latin I**  
4 hours; 4 credits 
A comprehensive review of the complete Latin grammar and syntax based on the reading of original Latin texts of different genres like historiography, lyric poetry, epic poetry, epistolography. Translation from Latin to English and from English to Latin; rudiments of Latin composition (golden Latin). (foreign lang.) 
Prerequisite: LAT 114

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**Latin American, Caribbean, and Latina/o Studies**

(Certificate)  
Division of Humanities and Social Sciences, 1A, Room 312  
Contact: Dean Nan Sussman  
Co-Directors: Assistant Professor Alvaro Baquero Pecino and Associate Professor Rafael de la Dehesa

**Certificate Requirements: 16 credits**

A minimum of 12 credits must be done in residence. 
Students must demonstrate proficiency in a Latin American language (i.e. Spanish, Portuguese, or other language with faculty permission) through the 215 level. 
1. A history course chosen from the following:  
   1ST 208  History of Modern Latin America  
   AAD 265/  History of the Caribbean  
   HST 265  
   HST 291  The Atlantic World  
   HST 305  Women in Latin America  
   HST 315  The European Discovery of America and the Encounter with the Native Peoples: 1492 to 1581

2. A humanities course chosen from the following:
Students in any major may minor in Legal Studies.

Minor Requirements: 16 credits

Required Courses
- POL 222  The American Legal System  8 credits
- PHL 331/POL 330  Legal Philosophy  4 credits

And

One course in Legal Philosophy and American Constitutionalism chosen from among the following:
- PHL 336  Advanced Topics in Ethics and Social Philosophy  4 credits
- POL 336  American Constitutional Law  4 credits
- POL 338  Civil Rights and Liberties  4 credits

And

One course in Law, Courts, and Public Policy chosen from among the following:
- POL 223  Public Administration  4 credits
- POL 233/POL 234  CUNY Internship Program in New York Government and Politics  4 credits
- POL 237  Criminal Courts and Defendants’ Rights  4 credits
- POL 238  Criminal Law and Procedure  4 credits
- POL 238  Law and Economics  4 credits
- ECO 331/POL 331  The Judiciary in Politics, Race, Law and Public Policy in the Contemporary United States  4 credits
- POL 320  Public Policy Analysis  4 credits

Liberal Arts and Sciences

Liberal Arts and Sciences (AA)

The Liberal Arts and Sciences Associate in Arts degree is the transfer degree for all students, other than those in the sciences, mathematics, or computer science, who plan to matriculate in a four-year bachelor's degree program. The AA degree allows considerable flexibility: it enables students to survey areas of academic interest, to concentrate in a particular area, to begin work on a major in the sophomore year, and to combine career courses with the study of the liberal arts and sciences. Graduates may continue study toward a bachelor's degree at the College in one of many major fields of study.

Pathways Required Core: 12 credits

| English Composition (RECR) | 6 credits |
| Mathematical And Quantitative Reasoning (RMQR) | 3 or more credits |
| Life and Physical Sciences (RLPR) | 3 or more credits |
Pathways Flexible Core: 18 credits
Select 6 courses from the following five areas with no more than two courses from any discipline or interdisciplinary field. The five areas of the Flexible Core are:
1. World Cultures and Global Issues (FWGR)
2. U.S. Experience in its Diversity (FUSR)
3. Creative Expression (FCER)
4. Individual and Society (FISR)
5. Scientific World (FSWR)

Electives: 30 credits
The remaining courses should be chosen in consultation with an advisor. Students interested in pursuing a bachelor's degree should consult with advisors in the discipline in which they plan to major and may begin working in their majors while completing the requirements for the associate's degree.

Total Credits Required: 60

Liberal Arts and Sciences (AS)
This is the basic degree for students interested, in the future, in matriculating in a Bachelor's degree program in the sciences, Mathematics, or Computer Science. Graduates may continue in the baccalaureate programs in Biochemistry, Biology, Chemistry, Computer Science, Computer Science-Mathematics, Earth and Environmental Science, Engineering Science, Electrical Engineering, Medical Technology, and Physics offered by the College. Students are recommended to consult an academic adviser about appropriate pre-major courses to prepare for the baccalaureate programs.

Pathways Required Core: 12 credits
English Composition (RECR) 6 credits
Mathematical And Quantitative Reasoning (RMQR) 3 or more credits
Life and Physical Sciences 3 or more credits

Pathways Flexible Core: 18 credits
Select 6 courses from the following five areas with no more than two courses from any discipline or interdisciplinary field. The five areas of the Flexible Core are:
1. World Cultures and Global Issues (FWGR)
2. U.S. Experience in its Diversity (FUSR)
3. Creative Expression (FCER)
4. Individual and Society (FISR)
5. Scientific World (FSWR)

Requirements: 11 credits:
Eight credits chosen from the following sequences:
AST 100, 101, Contemporary Theories of the Solar System and Contemporary Theories of the Universe with laboratories
AST 102, 103
BIO 170, 171, General Biology I and II with laboratories
BIO 180, 181
CHM 141, 121, General Chemistry I and II with laboratories
CHM 142, 127
PHY 120, 121, General Physics I and II with laboratories
PHY 160, 161

Electives: 19 credits
Select 6 courses from the following:
BIO 272 Biometrics
MTH 130 Pre-Calculus Mathematics
MTH 214 Applied Statistics Using Computers
MTH 232 Analytic Geometry and Calculus II
MTH 233 Analytic Geometry and Calculus III

Minimum of two science or math courses at the 200-level or above chosen from astronomy, biology, chemistry, computer science, engineering science, geology, math, or physics. Students should consult with an academic adviser in the discipline of interest as early as possible.

Liberal Arts and Sciences (AS)
This is the basic degree for students interested, in the future, in matriculating in a Bachelor's degree program in the sciences, Mathematics, or Computer Science. Graduates may continue in the baccalaureate programs in Biochemistry, Biology, Chemistry, Computer Science, Computer Science-Mathematics, Earth and Environmental Science, Engineering Science, Electrical Engineering, Medical Technology, and Physics offered by the College. Students are recommended to consult an academic adviser about appropriate pre-major courses to prepare for the baccalaureate programs.

Pathways Required Core: 12 credits
English Composition (RECR) 6 credits
Mathematical And Quantitative Reasoning (RMQR) 3 or more credits
Life and Physical Sciences 3 or more credits

Pathways Flexible Core: 18 credits
Select 6 courses from the following five areas with no more than two courses from any discipline or interdisciplinary field. The five areas of the Flexible Core are:
1. World Cultures and Global Issues (FWGR)
2. U.S. Experience in its Diversity (FUSR)
3. Creative Expression (FCER)
4. Individual and Society (FISR)
5. Scientific World (FSWR)

Electives: 30 credits
The remaining courses should be chosen in consultation with an advisor. Students interested in pursuing a bachelor's degree should consult with advisors in the discipline in which they plan to major and may begin working in their majors while completing the requirements for the associate's degree.

Total Credits Required: 60

Liberal Arts and Sciences (AS)
This is the basic degree for students interested, in the future, in matriculating in a Bachelor's degree program in the sciences, Mathematics, or Computer Science. Graduates may continue in the baccalaureate programs in Biochemistry, Biology, Chemistry, Computer Science, Computer Science-Mathematics, Earth and Environmental Science, Engineering Science, Electrical Engineering, Medical Technology, and Physics offered by the College. Students are recommended to consult an academic adviser about appropriate pre-major courses to prepare for the baccalaureate programs.

Pathways Required Core: 12 credits
English Composition (RECR) 6 credits
Mathematical And Quantitative Reasoning (RMQR) 3 or more credits
Life and Physical Sciences 3 or more credits

Pathways Flexible Core: 18 credits
Select 6 courses from the following five areas with no more than two courses from any discipline or interdisciplinary field. The five areas of the Flexible Core are:
1. World Cultures and Global Issues (FWGR)
2. U.S. Experience in its Diversity (FUSR)
3. Creative Expression (FCER)
4. Individual and Society (FISR)
5. Scientific World (FSWR)

Requirements: 11 credits:
Eight credits chosen from the following sequences:
AST 100, 101, Contemporary Theories of the Solar System and Contemporary Theories of the Universe with laboratories
AST 102, 103
BIO 170, 171, General Biology I and II with laboratories
BIO 180, 181
CHM 141, 121, General Chemistry I and II with laboratories
CHM 142, 127
PHY 120, 121, General Physics I and II with laboratories
PHY 160, 161

Electives: 19 credits
Select 6 courses from the following:
BIO 272 Biometrics
MTH 130 Pre-Calculus Mathematics
MTH 214 Applied Statistics Using Computers
MTH 232 Analytic Geometry and Calculus II
MTH 233 Analytic Geometry and Calculus III

Minimum of two science or math courses at the 200-level or above chosen from astronomy, biology, chemistry, computer science, engineering science, geology, math, or physics. Students should consult with an academic adviser in the discipline of interest as early as possible.

Electives: 19 credits

Pathways Flexible Core: 18 credits
Select 6 courses from the following five areas with no more than two courses from any discipline or interdisciplinary field. The five areas of the Flexible Core are:
1. World Cultures and Global Issues (FWGR)
2. U.S. Experience in its Diversity (FUSR)
3. Creative Expression (FCER)
4. Individual and Society (FISR)
5. Scientific World (FSWR)

Electives: 30 credits
The remaining courses should be chosen in consultation with an advisor. Students interested in pursuing a bachelor's degree should consult with advisors in the discipline in which they plan to major and may begin working in their majors while completing the requirements for the associate's degree.

Total Credits Required: 60

Library

Library Courses
LIB 102 Beyond Google: Research for College Success
2 hours; 1 credit
This course is designed to provide students with foundational research skills needed to succeed in college. Students will learn to develop well-thought-out research strategies, effectively use library research tools and new media sources. Students will be able to identify, locate, evaluate, and use appropriate information resources in keeping with academic integrity and ethical standards. Plagiarism and appropriate use of citation styles will be addressed.

Linguistics

Minor
Department of English, Building 2S, Room 218
Chairperson and Associate Professor Lee Papa
These courses are for students interested in studying Linguistics. Those courses designated as LING 201 and LING 300-level and above count as Linguistics courses in the Linguistics concentration (English major), as well as electives for English majors in the other concentrations (Literature, Writing, and Dramatic Literature).

LING Linguistics Courses
LING 101 Linguistic Diversity
3 hours; 3 credits
An overview of linguistic diversity in the world today, and the factors that influence it. Questions asked include:
How do languages originate? How are different languages related? How do social, cultural, and biological factors both contribute to and limit linguistic diversity? Major themes in this course will be language endangerment (the likely disappearance of 90% of human languages in the next 100 years) and the parallels between linguistic diversity and biodiversity.

Prerequisites: ENG 111

LING 201 Introduction to Language
4 hours; 4 credits
This course is an introduction to the study of language. It explores the following relationships: language and society; language and culture; language and thought; language and biology. (literature) (TALA)
Prerequisite: ENG 151

LING 301 Introduction to Linguistics
4 hours; 4 credits
The scientific study of language: sounds, grammar, words, animal communication, language families, etc. Special consideration is given to the dialect of New York City. For English majors and minors, this is designated as a linguistics course.
Prerequisite: ENG 151

LING 302 Phonetics
4 hours; 4 credits
An introduction to the articulation and basic acoustics of speech sounds used in the world's languages, including English in comparison with other languages. This course includes extensive practice in speech-sound perception, phonetic transcription using the International Phonetic Alphabet (IPA), and a basic introduction to phonemic analysis.
Pre- or corequisite: LING 301

LING 303 Phonology I
4 hours; 4 credits
An introduction to phonology, the analysis of linguistic sound systems, applied primarily to varieties of English and closely related languages. Emphasis is on learning how to examine sound patterns in terms of rules, features, and underlying forms. For English majors and minors, this is designated as a linguistics course. NOTE: It is recommended that students complete LING 302 prior to enrolling for this course.
Prerequisite: LING 301

LING 304 Syntax I
4 hours; 4 credits
This course is an introduction to syntax, the study of phrase structure in human language. Through examination primarily of English varieties, students will develop various skills in scientific analysis, such as: the identification of evidence to support hypotheses; the ability to deduce the nature of lexical and syntactic categories (such as noun, verb, noun phrase, subject, object); and the ability to recognize the abstract properties, elements, and operations which give rise to e.g. syntactic ambiguity, recursion, and the variety of surface forms we recognize as distinct "constructions," such as active vs. passive, interrogatives, and relative clauses.
Prerequisite: LING 301

LING 305 Second Language Learning
(Also LING 426)
4 hours; 4 credits
Introduction to the study of second language learning, with focus on understanding the nature of the underlying grammatical processes involved, and the ways in which second language learning by adults differs from first language acquisition by children.
Prerequisites: LING 301

LING 350 The Structure of Words
4 hours; 4 credits
An introduction to linguistic morphology, the study of word structure and word formation in languages of the world. This course will explore how words can be analyzed into smaller units of meaning and sound, the semantic properties of words, the origin of English words, and how word structure interacts with sound and sentence structure. For English majors and minors, this is designated as a linguistics course.
Prerequisite: ENG 151

LING 360 Word and Sentence Prosody
4 hours; 4 credits
An introduction to the prosodic structure of human languages. The course will provide an overview of stress, tone, and pitch accent systems (at the word-level), as well as rhythmic and melodic organization (at the sentence-level) from the perspective of Intonational Phonology. Note: LING 302 is recommended prior to enrolling in this course.
Prerequisite: LING 201 or LING 301

LING 370 Language Change
4 hours; 4 credits
How languages change and why, using the English language and the Indo-European family as examples. For English majors and minors, this is designated as a linguistics course.
Pre- or corequisite: LING 301

LING 380 Sociology of Language
(Also SOC 427)
4 hours; 4 credits
Areas of discussion include language and class, language and sex, language and race, and language and ethnicity. For English majors and minors, this is designated as a linguistics course.
Prerequisite: ENG 151

LING 390 History of English
4 hours; 4 credits
How the sounds, grammar, spelling, and words of English came to be the way they are. For English majors and minors, this is designated as a linguistics course.
Prerequisite: ENG 151

LING 402 Speech Science
4 hours; 4 credits
An introduction to the experimental methods used to study speech production and perception. Using the facilities of the CSI Speech Laboratory, students will learn to analyze speech acoustically and physiologically. This course will also involve research design and the writing of
LING 403  Phonology II
4 hours; 4 credits
A second course in phonological theory and analysis, including introductions to autosegmental theory, metrical theory, and constraint-based approaches to grammar. Sound patterns in a wide variety of languages and language families are examined. For English majors and minors, this is designated as a linguistics course.
Prerequisite: LING 304

LING 404  Syntax II
4 hours; 4 credits
An introduction to modern syntactic theory. Through the study of a variety of grammatical phenomena and processes across different languages, students will gain an understanding of one of the central enterprises in linguistics, namely the development of a general theory of the rules governing the syntactic structures of particular languages, and of the general syntactic principles governing all natural languages. Students will learn to engage in scientific analysis, and will become proficient in syntactic argumentation.
Prerequisite: LING 304

LING 405  Semantics and Pragmatics
4 hours; 4 credits
An introduction to linguistic meaning, exploring how sentences obtain their meanings from both structure and from context. Other topics addressed include lexical (word) meaning, discourse meaning, and intonational meaning.
Prerequisite: LING 304

LING 410  First Language Acquisition
4 hours; 4 credits
An examination of how typically-developing children naturally acquire their first language, surveying what is known about grammatical development at the levels of phonetics, phonology, morphology, and syntax. Both theory and data on child language acquisition are discussed, with special emphasis on developmental universals.
Prerequisite: LING 302 and LING 304

LING 411  Psycholinguistics
4 hours; 4 credits
An introduction to issues in language comprehension and production, with emphasis on how linguistic theory guides experimental investigation. Topics include speech perception, word segmentation, word recognition, lexical processing, and syntactic parsing. This course incorporates both lab work and quantitative methodology.
Prerequisite: (LING 302 or LING 303) and LING 304

LING 412  Sign Language Linguistics
4 hours; 4 credits
A cross-linguistic survey of the structure of sign languages. Major emphases include the exploration of (a) how various areas of linguistic theory (e.g., phonetics, phonology, morphology, syntax) apply to sign languages, and (b) structural aspects that are specific to the world’s sign languages. The course will also include discussion of the acquisition of sign languages, as well as their sociolinguistic and psycholinguistic aspects. Knowledge of a sign language (e.g., Nicaraguan Sign Language, Swedish Sign Language, American Sign Language, etc.) is not required for this course.
Prerequisite: (LING 302 or LING 303) and LING 304

LING 413  Phonetic and Phonological Disorders
4 hours; 4 credits
An introduction to major disorders of linguistic speech sounds, both phonetic (articulatory) and phonological (cognitive) in nature. The course highlights theories of description and assessment, and linguistic approaches to intervention.
Prerequisite: LING 302

LING 420  Anatomy and Physiology for Speech Science
4 hours; 4 credits
An introduction to the typically-developed anatomy and physiology of the structures involved in the production of human speech and in hearing. Topics include the mechanisms of respiration, phonation, articulation, and audition.
Prerequisite: LING 302; (BIO 106 and BIO 107) or (BIO 170 and BIO 171)

LING 430  Audiology
4 hours; 4 credits
An introduction to the field of audiology. Topics covered include the anatomy and physiology of the auditory system, auditory disorders and their etiologies, types of hearing loss, and hearing loss management. Students will gain familiarity with standard audiological assessment tools, assessment procedures, interpretation of audiometric and tympanometric data, and post-evaluation patient referral.
Prerequisite: LING 302, LING 402, LING 420

Macaulay Honors College at CSI
Director: Associate Professor Charles Liu, Building 1A, Room 206
The Macaulay Honors College University Scholars Program at the College of Staten Island provides a select group of highly motivated students with a special curriculum of innovative and challenging courses. These courses, taught in small class settings by select faculty members, provide a broad but coherent foundation for the baccalaureate degree. Included in this curriculum is a series of four seminars investigating New York City from a variety of viewpoints and using the City itself as a classroom. Class work involves field study, independent and collaborative research experience, and study-abroad opportunities, as well as participation in cross-campus events involving students from all Macaulay Honors College campuses. Students are also required to complete 30 hours of community service over the course of the four-year program. Third and fourth-year University Scholars pursue study in a wide range of majors in which they are required to achieve departmental honors. If honors in the major is not available, students must complete an honors project or an honors thesis. Students accepted into the Macaulay Honors College receive a comprehensive package of financial and academic assistance including full tuition reimbursement for four years, an academic stipend to defray travel abroad and internship expenses, a cultural passport providing free or discounted admission to New York’s diverse cultural offerings, and a free laptop computer.

CSI’s Macaulay Honors College staff includes a full-time academic advisor and a program coordinator. University Scholars benefit from personalized and individualized attention ranging from priority course registration to ongoing academic and career advisement. Local and CUNY-wide initiatives provide University Scholars with opportunities to successfully compete for prestigious internships, fellowships, and admission to post-graduate programs. CSI’s Macaulay Honors College also houses a student lounge and a designated computer lab for student use.

I. Macaulay Honors College Pathways Required Core: 12 credits

a. English Composition* (RECR) 6 credits

b. Mathematical and Quantitative Reasoning* (RMQR) 3 or more credits*

c. Life and Physical Sciences* (RLPR) 3 or more credits*

*Macaulay Honors College section is required.

II. Macaulay Honors College Flexible Core: 18 credits

Students must take six three-credit liberal arts and sciences courses, with at least one course from each of the following five areas and no more than two courses in any discipline of interdisciplinary field. The five areas are:

a. World Cultures and Global Issues (FWGR)

It is recommended that all BA Majors and BS Majors which require 213-level language proficiency (BS in Art; Business/International Business concentration; Communications; Dramatic Arts; Music, Social Work) take a 112-level language course to satisfy this area of the Flexible Core.

b. U.S. Experience in its Diversity (FUSR)

Macaulay students are required to take the following course to satisfy the FUSR requirement:

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Credit</th>
<th>Hour</th>
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</thead>
<tbody>
<tr>
<td>HON 122</td>
<td>The Peopling of New York City</td>
<td>3</td>
<td>3</td>
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</table>

c. Creative Expression (FCER)

Macaulay students are required to take the following course to satisfy the FCER requirement:

<table>
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<th>Course No.</th>
<th>Course Title</th>
<th>Credit</th>
<th>Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>HON 121</td>
<td>The Arts in New York City</td>
<td>3</td>
<td>3</td>
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d. Individual and Society (FISR)

Macaulay students are required to take the following course to satisfy the FISR requirement:

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Credit</th>
<th>Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>HON 224</td>
<td>Shaping the Future of New York City</td>
<td>3</td>
<td>3</td>
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</table>

e. Scientific World*(FSWR)

f. Any additional course of the Flexible Core

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Credit</th>
<th>Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>HON 223</td>
<td>Science and Technology in New York City</td>
<td>3</td>
<td>3</td>
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*Macaulay Honors College section is required.
III. Macaulay Honors College Option: 12 credits

<table>
<thead>
<tr>
<th>Cr/Hr</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisite</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 cr/4 hr</td>
<td>HON 101</td>
<td>The American Experience: Humanities</td>
<td>3 cr/3 hr</td>
<td>All BA Majors and BS Majors which require 114-level language proficiency (BS in Art; Business/International Business concentration; Communication; Dramatic Arts; Music, Social Work).Macaulay students may take HON 206 to satisfy the Social Scientific Analysis (social science).Macaulay students may take HON 205 to satisfy the Textual Aesthetic Linguistic Analysis (TALA) requirement.1 cr/2 hr Science lab of RPR 1 cr/2 hr Science lab of FWSR 3 cr/4 hr 114-level language</td>
</tr>
<tr>
<td>3 cr/3 hr</td>
<td>HON 205</td>
<td>Non-U.S. Experience: Humanities</td>
<td>3 cr/3 hr</td>
<td>BS Majors in STEM disciplines, Accounting, Business, Economics, Psychology</td>
</tr>
</tbody>
</table>

**Macaulay students are required to take HON 205 or HON 206 to satisfy this area of the College Option in consultation with their advisor.**

**Honors Courses**

**HON 101** The American Experience: Humanities

3 hours; 3 credits

An introduction to the arts in New York City from the multiple perspectives of scholarship, creativity, and production. Students will attend theatrical, operatic, or musical performances; exhibitions of visual art; or other highlights of the current cultural season. By writing frequently about these and other examples of the visual, performing, and literary arts, students will develop their analytic and communication skills. Required for Macaulay Honors.

**HON 122** The Peopling of New York City

3 hours; 3 credits

An investigation of the role of immigration and migration in shaping New York City’s identity in the past and present. Topics will include the factors that have driven and drawn people to the city since the 17th century; the different ways that religion, race, gender, and ethnicity have shaped immigrant encounters with the city; the formation and social organization of immigrant communities; the impact of successive waves of newcomers on urban culture and politics; and the continuing debate over assimilation and Americanization. Required for Macaulay Honors.

**HON 205** Non-U.S. Experience: Humanities

3 hours; 3 credits

A writing-intensive seminar using the humanities to explore human experience in a non-U.S. region. The specific focus will be determined by the instructor. (p&d) (TALA) NOTE: This course satisfies the College Option.

**HON 206** Non-U.S. Experience: Social Sciences

3 hours; 3 credits

A writing-intensive seminar using the social sciences to explore human experience in a non-U.S. region. The specific focus will be determined by the instructor. (social science) (cont. wrld.) NOTE: This course satisfies the College Option.

**HON 223** Science and Technology in New York City

3 hours; 3 credits

An investigation into the impact that science and technology have had on contemporary New York. The intellectual and historical roots and the ethical, legal, social, and economic ramifications of such issues as the computer, urban health, the environment, and energy are examined. Scholars visit important institutions related to the field of science and technology within New York City and engage in the process of scientific inquiry as they investigate seminar topics. Required for Macaulay Honors.

**HON 230** The Arts in New York City

3 hours; 3 credits

An introduction to the arts in New York City from the multiple perspectives of scholarship, creativity, and production. Students will attend theatrical, operatic, or musical performances; exhibitions of visual art; or other highlights of the current cultural season. By writing frequently about these and other examples of the visual, performing, and literary arts, students will develop their analytic and communication skills. Required for Macaulay Honors.

**HON 231** The Peopling of New York City

3 hours; 3 credits

An investigation of the role of immigration and migration in shaping New York City’s identity in the past and present. Topics will include the factors that have driven and drawn people to the city since the 17th century; the different ways that religion, race, gender, and ethnicity have shaped immigrant encounters with the city; the formation and social organization of immigrant communities; the impact of successive waves of newcomers on urban culture and politics; and the continuing debate over assimilation and Americanization. Required for Macaulay Honors.

**HON 232** The Peopling of New York City

3 hours; 3 credits

An investigation of the role of immigration and migration in shaping New York City’s identity in the past and present. Topics will include the factors that have driven and drawn people to the city since the 17th century; the different ways that religion, race, gender, and ethnicity have shaped immigrant encounters with the city; the formation and social organization of immigrant communities; the impact of successive waves of newcomers on urban culture and politics; and the continuing debate over assimilation and Americanization. Required for Macaulay Honors.

**HON 233** Science and Technology in New York City

3 hours; 3 credits

An investigation into the impact that science and technology have had on contemporary New York. The intellectual and historical roots and the ethical, legal, social, and economic ramifications of such issues as the computer, urban health, the environment, and energy are examined. Scholars visit important institutions related to the field of science and technology within New York City and engage in the process of scientific inquiry as they investigate seminar topics. Required for Macaulay Honors.

**HON 234** The Arts in New York City

3 hours; 3 credits

An introduction to the arts in New York City from the multiple perspectives of scholarship, creativity, and production. Students will attend theatrical, operatic, or musical performances; exhibitions of visual art; or other highlights of the current cultural season. By writing frequently about these and other examples of the visual, performing, and literary arts, students will develop their analytic and communication skills. Required for Macaulay Honors.

**HON 235** The Peopling of New York City

3 hours; 3 credits

An investigation of the role of immigration and migration in shaping New York City’s identity in the past and present. Topics will include the factors that have driven and drawn people to the city since the 17th century; the different ways that religion, race, gender, and ethnicity have shaped immigrant encounters with the city; the formation and social organization of immigrant communities; the impact of successive waves of newcomers on urban culture and politics; and the continuing debate over assimilation and Americanization. Required for Macaulay Honors.

**HON 236** Science and Technology in New York City

3 hours; 3 credits

An investigation into the impact that science and technology have had on contemporary New York. The intellectual and historical roots and the ethical, legal, social, and economic ramifications of such issues as the computer, urban health, the environment, and energy are examined. Scholars visit important institutions related to the field of science and technology within New York City and engage in the process of scientific inquiry as they investigate seminar topics. Required for Macaulay Honors.

**HON 237** The Arts in New York City

3 hours; 3 credits

An introduction to the arts in New York City from the multiple perspectives of scholarship, creativity, and production. Students will attend theatrical, operatic, or musical performances; exhibitions of visual art; or other highlights of the current cultural season. By writing frequently about these and other examples of the visual, performing, and literary arts, students will develop their analytic and communication skills. Required for Macaulay Honors.

**HON 238** The Peopling of New York City

3 hours; 3 credits

An investigation of the role of immigration and migration in shaping New York City’s identity in the past and present. Topics will include the factors that have driven and drawn people to the city since the 17th century; the different ways that religion, race, gender, and ethnicity have shaped immigrant encounters with the city; the formation and social organization of immigrant communities; the impact of successive waves of newcomers on urban culture and politics; and the continuing debate over assimilation and Americanization. Required for Macaulay Honors.

**HON 239** Science and Technology in New York City

3 hours; 3 credits

An investigation into the impact that science and technology have had on contemporary New York. The intellectual and historical roots and the ethical, legal, social, and economic ramifications of such issues as the computer, urban health, the environment, and energy are examined. Scholars visit important institutions related to the field of science and technology within New York City and engage in the process of scientific inquiry as they investigate seminar topics. Required for Macaulay Honors.

**HON 240** The Arts in New York City

3 hours; 3 credits

An introduction to the arts in New York City from the multiple perspectives of scholarship, creativity, and production. Students will attend theatrical, operatic, or musical performances; exhibitions of visual art; or other highlights of the current cultural season. By writing frequently about these and other examples of the visual, performing, and literary arts, students will develop their analytic and communication skills. Required for Macaulay Honors.

**HON 241** The Peopling of New York City

3 hours; 3 credits

An investigation of the role of immigration and migration in shaping New York City’s identity in the past and present. Topics will include the factors that have driven and drawn people to the city since the 17th century; the different ways that religion, race, gender, and ethnicity have shaped immigrant encounters with the city; the formation and social organization of immigrant communities; the impact of successive waves of newcomers on urban culture and politics; and the continuing debate over assimilation and Americanization. Required for Macaulay Honors.

**HON 242** Science and Technology in New York City

3 hours; 3 credits

An investigation into the impact that science and technology have had on contemporary New York. The intellectual and historical roots and the ethical, legal, social, and economic ramifications of such issues as the computer, urban health, the environment, and energy are examined. Scholars visit important institutions related to the field of science and technology within New York City and engage in the process of scientific inquiry as they investigate seminar topics. Required for Macaulay Honors.
HON 224      Shaping the Future of New York City
3 hours, 3 credits
An exploration of the ongoing interplay of social, economic, and political forces that shape the physical form and social dynamics of New York City. Major topics will include important historical junctures and economic development initiatives that illustrate how decisions are made and power is distributed in the city; the larger context of the city within the region, the nation, and the world; the institutional agents of change in the city; and inequality and its relationship to race, class, and gender. Required for Macaulay Honors. (FISR)
Prerequisite: Fourth-semester standing in the Macaulay Honors College University Scholars Program

HON 301      Interdisciplinary Honors Seminar
4 hours, 4 credits
An examination of the nature and process of scholarship and research in the multiple disciplines that comprise the spectrum of fine and applied arts and sciences - including creative arts, humanities, mathematics, social sciences, natural sciences, and technology - and their interdisciplinary connections, both subtle and profound. Students will be engaged in various stages of independent scholarly work. Through interaction with peers, students develop communication skills and position their own research and scholarship within a broader context of human inquiry. All Verrazano students are required to complete a capstone project at CSI, and this course provides support for this endeavor.
Prerequisite: Completion of at least 45 credits and permission of the instructor

HON 400      Honors Seminar in the Humanities and Social Sciences
4 hours; 4 credits
The Honors Seminar in the Humanities and Social Sciences will focus on a particular methodological problem or central issue in one or more disciplines of the humanities and/or social sciences. Over the course of the semester, students will be required to (1) familiarize themselves with the current literature in a particular problem area and (2) pursue original research in that area. Students will also be required to read extensively, engage in seminar discussions, and participate in individual conferences with the instructor.
Prerequisites: Matriculation in one of the disciplines under the Division of Humanities and Social Sciences; completion of 64 credits; selection by a faculty committee

HON 401      Honors Seminar in the Sciences
4 hours; 4 credits
The Honors Seminar in the Sciences focuses on a particular methodological problem or central issue in one or more of the science disciplines. Over the course of the semester, students will be required to (1) familiarize themselves with the current literature in a particular problem area and (2) pursue original research in that area. Students will also be required to read extensively, engage in seminar discussions, participate in individual conferences with the instructor, and pursue research leading to an article length paper.
Prerequisites: Matriculation in one of the disciplines under the Division of Sciences; junior or senior standing

Mathematics

(Bachelor of Science in Mathematics, Computer Science/Mathematics, Preparation for Teaching in Grades 7–12, Minor; see also Computer Science-Mathematics (BS); see also Education/Adolescence Education Program.)
Department of Mathematics, Building 1S, Room 215
Chairperson and Professor John Verzani
Mathematics is a gateway to many desirable professions in both the private and public sectors. Research teams at nearly all large corporations recruit Math majors. The analytical and problem solving skills cultivated by students majoring in Mathematics are both versatile and highly valued in government, industry, and education.
There are three major emphases for the BS degree in Mathematics: Applied Mathematics—for those interested in applying mathematical ideas and techniques to model and solve real-world problems; Pure Mathematics—for those primarily interested in mathematical concepts and who excel at abstract and analytical thinking; Secondary Education—for those interested in teaching high school-level mathematics.
A joint Mathematics-Computer Science major is also offered for those interested in both fields. This option involves a synthesis from both fields and gives students the advantage of broader opportunities in a growing area of research.

Mathematics (BS)

Pre-Major Requirements: 22-25 credits
MTH 229 Calculus Computer Laboratory 1 credit
MTH 231 Analytic Geometry and Calculus I 3 credits
MTH 232 Analytic Geometry and Calculus II 3 credits
MTH 233 Analytic Geometry and Calculus III 3 credits
OR
MTH 229 Calculus Computer Laboratory 1 credit
MTH 230 Calculus I with Pre-Calculus 6 credits
MTH 232 Analytic Geometry and Calculus II 3 credits
MTH 233 Analytic Geometry and Calculus III 3 credits
CSC 126 Introduction to Computer Science or 4 credits
CSC 270 Introduction to Scientific Computing or 4 credits
MTH 214 Applied Statistics Using Computers 4 credits

AND
A one-year science sequence chosen from the following list of courses:
AST 120 and AST 160 Space Science I and II
BIO 170/171 and BIO 180/181 General Biology I and II with Laboratories
CHM 141/121 and CHM 142/127
GEO 115/GEO 116 and GEO 102/103
ESC 110/111
PHY 120/121
PHY 160/161

Major Requirements: 36 credits
MTH 311 Probability Theory and an Introduction to Mathematical Statistics 4 credits
And
MTH 330 Applied Mathematical Analysis I 4 credits
Or
MTH 334 Differential Equations 4 credits
And
MTH 338 Linear Algebra 4 credits
MTH 339 Applied Algebra 4 credits
MTH 341 Advanced Calculus I 4 credits
In addition, four other mathematics courses at the 300 or 400 level chosen with the approval of an advisor: 16 credits
Note: Whenever possible all Mathematics majors are strongly advised to include in their curriculum a Computer Science course (CSC 126 or CSC 270) and MTH 214 (one of them as an elective.)

Electives: 14-17 credits (including courses in education, required for students interested in secondary education teacher certification)

Total Credits Required: 120
Following are three different emphases for a BS degree in Mathematics.

Pure Mathematics Emphasis
Students who wish to focus on theoretical aspects of mathematics are advised to include courses from Differential Equations, Real and Complex Analysis (MTH 331, 342, 431), Number Theory and Algebra (MTH 347, 442), Geometry and Topology (MTH 329, 441), or Logic and Foundations (MTH 350, 440).

Applied Mathematics Emphasis
Students who wish to explore mathematical topics that have applications to other fields, including sciences, engineering, medicine, economics, or business, are advised to include courses that emphasize Mathematical Modeling such as Combinatorics/Graph Theory, Actuarial Mathematics, Operations Research and Mathematical Biology (MTH 337, 360, 370, 415), Differential Equations and Dynamical Systems (MTH 331, 435), Numerical Analysis (MTH 335), Mathematical Statistics (MTH 410, 411), or Mathematics of Finance (MTH 416).

Preparation for Teaching (Grades 7-12)
See also Education/Adolescence Education.

Students who wish to be recommended for New York State certification for teaching mathematics at the secondary level (grades 7 - 12) must complete all general education, pre-major, and major requirements for the Mathematics BS.

For admission and continuation in the Adolescence Education Sequence and all Adolescence Education courses students must have a minimum cumulative GPA of 3.0. Students must include, within the set of advanced courses required by the major, one or more upper-level Mathematics courses covering (1) Euclidean and non-Euclidean geometry and (2) history of mathematics: this requirement may be met by taking MTH 329, and MTH 306. Students must also include as electives the following Adolescence Education (EDS) course sequence offered by the Department of Education (24 credits):

Education Sequence 24 credits
EDS Social Foundations of Secondary Education 4 credits
EDS Psychological Foundations of Secondary Education 4 credits
EDS The Pedagogy of Secondary School in Mathematics 4 credits
EDS The Secondary School Curriculum in Mathematics 4 credits
EDS Student Teaching in Secondary Education 6 credits
EDS Reflection and Analysis in Student Teaching in Secondary Education 2 credits

NOTE: EDP 220 is a requirement for NYS Certification. Students are encouraged to take this course prior to graduation.

Honors
To graduate with honors in Mathematics a student must have at least a 3.5 grade point average in Mathematics courses and must complete an honors thesis or project. The student must work closely with a Mathematics faculty member to define the project, carry out the research and investigation, and write the final report or prepare the final project. The student may receive credit through Independent Study for work on an honors project. The project must be accepted by the Honors Committee of the Department of Mathematics.

Computer Science-Mathematics (BS)
The Departments of Computer Science and Mathematics offer a joint BS degree program in Computer Science and Mathematics that provides a balance between these two disciplines with an emphasis on their applied aspects and their relationship to each other.

Pre-Computer Science Sequence 4 credits
CSC 126 Introduction to Computer Science 4 credits
A grade of C or above in CSC 126 will be required for admission to the Computer Science-Mathematics Baccalaureate program. Students will be allowed to repeat the course, if necessary.

Pre-Major Requirements: 25-29 credits
Students planning to major in Computer Science-Mathematics should complete the following requirements prior to their junior year.

Calculus sequence chosen from the following: 9-13 credits
MTH 230 Calculus I with Pre-Calculus II 6 credits
MTH 232 Analytic Geometry and Calculus II 3 credits
MTH 233 Analytic Geometry and Calculus III 3 credits
MTH 229 Calculus Computer Laboratory 1 credit
MTH 231 Analytic Geometry and Calculus 3 credits
MTH 232 Analytic Geometry and Calculus I
MTH 233 Analytic Geometry and Calculus II
MTH 229 Calculus Computer Laboratory
CSC 220 Computers and Programming
CSC 211 Intermediate Programming
A one-year science sequence with labs chosen from the following list of courses:
AST 120 and AST 160 Space Science I and II
BIO 170/171 and BIO 180/181 General Biology I and II
CHM 141/121 and CHM 142/127 General Chemistry I and II
GEO 100/GEO 101 and GEO 102/GEO 103 Planet Earth and Historical Geology
PHY 120/PHY 121 and PHY 160/PHY 161 General Physics I and II

Major Requirements: 53 credits
MTH 228/229 Discrete Mathematical Structures for Computer Science
CSC 228 4 credits
Computer Science
CSC 326 Data Structures 4 credits
CSC 330 Object-Oriented Software Design 4 credits
CSC 346 Switching and Automata Theory 3 credits
CSC 347 Computer Circuits Laboratory 1 credit
CSC 382 Analysis of Algorithms 4 credits
Any two 400-level CSC advanced electives 8 credits

Mathematics
MTH 311 Probability Theory and an Introduction to Mathematical Statistics 4 credits
MTH 335 Numerical Analysis 4 credits
MTH 338 Linear Algebra 4 credits
MTH 339 Applied Algebra 4 credits
Any two of the following: 8 credits
MTH 330 Applied Mathematical Analysis I
MTH 337 Applied Combinatorics and Graph Theory
MTH 341 Advanced Calculus I
MTH 347 Number Theory
MTH 349 Cryptology
MTH 350 Mathematical Logic
MTH 370 Operations Research
MTH 410 Mathematical Statistics I

Electives: 0-11 credits
Total Credits Required: 120

Mathematics Minor

Minor

Pre-Minor requirements:
MTH 229 Calculus Computer Laboratory
MTH 231 Analytic Geometry and Calculus I
MTH 232 Analytic Geometry and Calculus II
MTH 233 Analytic Geometry and Calculus III

or
MTH 229 Calculus Computer Laboratory

MTH 235 Accelerated Calculus I
MTH 236 Accelerated Calculus II
11 credits
or
MTH 229 Calculus Computer Laboratory
MTH 230 Calculus I with Pre-Calculus
MTH 232 Analytic Geometry and Calculus I
MTH 233 Analytic Geometry and Calculus III
13 credits

Requirements: 12 credits
At least 12 credits of Mathematics courses at the 300- or 400-level including at least one four-credit course that has not been used to satisfy a requirement for another major. A GPA of 2.0 or higher.

Mathematics Testing (See also Academic Policies/Testing)
Every student entering The City University of New York must take a mathematics proficiency and placement test. Prior to fall 2004 the test used was the five-part CUNY Mathematical Assessment Test (CMAT). Beginning in fall 2004, the test used is the COMPASS Exam. This new exam is a computer adaptive test, which consists of four parts: Part I - Numerical Skills/Pre-Algebra, Part II - Algebra, Part III - College Algebra, and Part IV - Trigonometry. Mathematics proficiency can be demonstrated by appropriate scores on the COMPASS Exam, Parts I and II or an appropriate score on prior mathematics exams such as the math section of the SAT or the NYS Regents Mathematics exams. Students who have sufficient background in mathematics can be exempted from the proficiency part of the exam, but are still required to take the placement section of the COMPASS Exam beginning with Part II - Algebra, for placement into the appropriate level of mathematics courses.

Students who do not get the required score on Part I and Part II of the COMPASS Exam and are not exempt based upon the SAT and NYS Regents score are not considered to be math proficient. These students are required to achieve proficiency within one year. This one year includes the pre- and post-freshmen Summer Immersion Program, the Winter Immersion Program, and the fall and spring remedial coursework. Students who do not achieve proficiency in mathematics within one year will be dismissed. All non-proficient students who fail both Part I and Part II of the COMPASS exam must complete a pre-freshman math immersion course. Other non-proficient students may enroll in an Immersion Program the appropriate 0-level mathematics course (MTH 020).

Mathematics Placement
All incoming students must take the COMPASS Exam, a mathematics proficiency and placement test. Those who are exempt from the proficiency part of the exam are required to take the placement part of the exam beginning with Part II - the Algebra section, in order to be placed into an appropriate mathematics course that is consistent with their curriculum.
Placement in mathematics courses is governed by the following Mathematics Department policies:

a. Incoming students who have failed to exhibit mathematics proficiency are eligible only for placement into either MTH 015 (6 hours) for students who failed both parts of the proficiency exam or MTH 020 (4 hours) for students who failed only one part of the proficiency exam and are not eligible to take any other mathematics courses until passing MTH 015 or MTH 020.

Students who have mathematics proficiency but do not have a sufficiently high score on Part II (Algebra) of the COMPASS Exam need further work in elementary algebra are only eligible for placement into MTH 020.

Students who have mathematics proficiency and in addition have sufficiently high scores on the appropriate parts of the (four-part) COMPASS Exam, or NYS Regents are eligible for placement into MTH 030, 102, 108, 109, 113, 121, 123, 130, 217, 221, 223, 230, or 231, according to the current Mathematics Placement Score table published by the Department of Mathematics. These courses may have additional prerequisites or restrictions.

b. Transfer students should bring documentation of previous coursework in mathematics to the Mathematics Department for evaluation and placement as soon as possible after admission to the College. If applicable, students should provide a copy of their high school transcripts with NYS Regents scores. Transfer students should bring catalog descriptions of their previous mathematics courses, along with copies of their transcripts with the original grades.

c. Students who complete MTH 123 with a grade of A may go directly to Calculus I MTH 231. Students who complete MTH 123 with a grade of A or B may go directly to MTH 230. In either case, however, students who need additional background in trigonometry are advised to take MTH 130 before taking Calculus I.

d. Initial placement into all mathematics courses, including MTH 015 or MTH 020, 030, 102, 108, 109, 113, 121, 123, 130, 217, 221, 223, 230, or 231 for students not covered by the policies above is determined by the recommendation of faculty advisors in the Department of Mathematics, based on documentation or demonstration of the student’s mathematics preparation.

Selecting Appropriate Mathematics Courses

The College offers several introductory mathematics courses and course sequences meeting a variety of student interests and needs.

Remedial and Developmental Mathematics Courses: 0-Level Courses in Mathematics

MTH 015 Elementary Algebra with Proficiency Exam Review
6 hours; 0 credits
Selected topics from elementary algebra including factoring, operations on polynomials, solving and graphing linear equations and applications to word problems. Additional topics found on the CUNY Math Proficiency Exam.

Prerequisite: Open to students who failed both Part I and Part II of the CUNY Math Proficiency Exam and have completed the appropriate Immersion Program at the College in either Summer or Winter

MTH 020 Elementary Algebra (4 hours; 0 credits)
This course is a prerequisite for all courses that satisfy the Scientific Analysis part of the general education requirement. It is also a prerequisite for many science and business courses that require some math competency. MTH 020 is an entry-level elementary algebra course designed for students who failed only one portion of the Mathematics Proficiency Exam or those with minimum proficiency who do not have a sufficiently high score on the Part II (Algebra) of the COMPASS Exam. Not open to students who have passed MTH 015.

MTH 030 Intermediate Algebra (4 hours; 0 credits)
This course is for students who have competency in elementary algebra and require further study of mathematics for their degree program. It is a prerequisite for courses required in many curriculums including Business, Computer Science, Economics, SLS (Science, Letters, and Society)/Education, Physical Therapy, Physician’s Assistant and all science, technology or engineering programs.

College-level Mathematics Courses

The College offers several introductory mathematics courses, meeting a variety of student interests and needs.

a. Standard Calculus sequence: the College offers a standard sequence in single and multivariable calculus: MTH 230 or MTH 231 (with MTH 229), MTH 232, and MTH 233 for students in Chemistry, Computer Science, Engineering Sciences, and Mathematics, and students who wish to take more advanced courses in mathematics. It is recommended for students considering graduate work in any field requiring advanced mathematics including business and economics. Students should take MTH 123 and MTH 130 to prepare for this sequence (see also the section on Placement above).

b. Business Calculus sequence: for students in Accounting, Business, or Economics majors who are not planning to undertake graduate study. The
courses, MTH 121 Finite Mathematics and MTH 221 Applied Finite Mathematics and Business Calculus, introduce students to mathematical topics used to solve problems in business and economics.

c. General Education 100-level courses: for liberal arts students in AA or BA degree programs. These introductory courses, MTH 102 Mathematics for Liberal Arts Students, MTH 109 Mathematics and the Environment, and MTH 113 Introduction to Probability and Statistics with Computer Applications, are designed to provide a background in contemporary mathematical thinking.

d. SLS Mathematics sequence: for students seeking certification in Early Childhood and Childhood Education: The courses MTH/SLS 217 Fundamentals of Mathematics I and MTH/SLS 218 Fundamentals of Mathematics II are designed for students interested in teaching from pre-kindergarten through the sixth grade. Students must take a 100-level general education mathematics course prior to taking this sequence.

Mathematics Courses

MTH 010 Basic Mathematics
4 hours; 0 credits
Arithmetic operations on whole numbers, decimals, fractions, and signed numbers. Ratios, proportions, percents, graphs, and charts. Selected topics from elementary algebra. The emphasis is on skills development and applications of verbal problems.

MTH 015 Elementary Algebra with Proficiency Exam Review
6 hours; 0 credits
Selected topics from elementary algebra including factoring, operations on polynomials, solving and graphing linear equations and applications to word problems. Additional topics found on the CUNY Math Proficiency Exam.
Prerequisite: Open to students who failed both Part I and Part II of the CUNY Math Proficiency Exam and have completed the appropriate Immersion Program at the College in either Summer or Winter

MTH 020 Elementary Algebra
4 hours; 0 credits
Selected topics from elementary algebra including factoring, operations on polynomials, solving and graphing linear and quadratic equations. Applications to word problems.
Prerequisite: An appropriate score on the CUNY proficiency/placement exam or permission of the Department of Mathematics

MTH 025 Selected Topics in Intermediate Algebra
4 hours; 0 credits
Linear equations, linear inequalities, absolute value equations, absolute value inequalities, word problems, polynomials, rational functions, factoring, exponents, equations of straight lines, graphing, functions, systems of linear equations in two variables. Not open to students who have passed MTH 015 or MTH 020.
Prerequisite: An appropriate score on the CUNY proficiency/placement exam

MTH 030 Intermediate Algebra
4 hours; 0 credits
This course is for students who have competency in elementary algebra and require further study of mathematics for their degree program. It is a prerequisite for courses required in many curriculums including Business, Computer Science, Economics, SLS (Science, Letters, and Society)/Education, Physical Therapy, Physician's Assistant, and all science, technology, or engineering programs.
Prerequisite: MTH 015 or MTH 020 or an appropriate score on the CUNY Assessment Test in Mathematics or permission of the Department of Mathematics

MTH 035 Intermediate Algebra
2 hours; 0 credits
A co-requisite recitation course to reinforce intermediate algebra skills for a select cohort of MTH 123 students.
Prerequisite: This section is restricted to students with a grade of "S" in MTH 020, students with an appropriate score on the Math Placement exam, or any student enrolled in MTH 123, or permission of the Department of Mathematics.

MTH 102 Mathematics for Liberal Arts Students
3 hours; 3 credits
This course is intended to introduce the nonspecialist to contemporary mathematical thinking. Topics include probability and statistics and other topics chosen by the instructor, such as inductive and deductive reasoning, sequences, geometry, linear programming, graph theory, and mathematics for computer science. (math) (RMQR)
Prerequisite: MTH 020 or an appropriate score on the Mathematics Assessment Test

MTH 103 Mathematical Ideas
4 hours; 4 credits
A course to strengthen mathematical thinking and quantitative skills, while demonstrating the relevance and importance of mathematics. Students will learn how to model and solve real-world problems with mathematics. In addition to foundational concepts, topics may include personal finance, statistical reasoning, geometry, and voting systems. (math)
Prerequisite: CUNY Math Proficiency

MTH 104 Thinking Mathematically
6 hours; 3 credits
A course intended to introduce various applications of mathematics for students who have not demonstrated elementary algebra proficiency. Topics may include: personal finance, measurement, geometry, elementary probability, descriptive statistics, or voting methods. Sufficient elementary algebra background will be introduced to ensure a mathematical rigor for each topic.
Prerequisite: Student must have demonstrated arithmetic proficiency through entrance examination score or high school record.
MTH 108 Medical Dosage Calculations
2 hours; 2 credits
Calculations of medical dosages involving conversions between the metric, apothecary, and household systems of measurement. Emphasis on complex computation of parenteral, non-parenteral, and pediatric dosages, and calculation and quantitative estimating of medical dosages.
Prerequisite: MTH 015 or MTH 020 or an appropriate score on the CUNY proficiency/placement exam

MTH 109 Mathematics and the Environment
3 hours; 3 credits
Mathematical topics including sequences, graphs, statistics, probability, solution of equations, and mathematical reasoning applied to environmental issues such as population growth, energy demand, and dwindling natural resources. (math)
Prerequisite: MTH 015 or MTH 020 or an appropriate score on the CUNY proficiency/placement exam

MTH 113 Introduction to Probability and Statistics
4 hours; 4 credits
Measures of central tendency and dispersion, the normal curve, hypothesis testing. Linear correlation and regression, basic concepts in probability with application to problems in the social, behavioral, physical, and biological sciences. Statistical computer programs will be used extensively. (math) (RMQR) (STEM) Not open to students who have completed MTH 214.
Prerequisite: MTH 015 or MTH 020 or an appropriate score on the CUNY Math Proficiency/Placement Exam

MTH 121 Finite Mathematics
3 hours; 3 credits
Linear functions and equations, graphing techniques, matrix algebra, applications of matrices to systems of linear equations and to business problems, quadratic functions and equations, exponential and logarithmic functions. (math) (RMQR)
Prerequisite: MTH 030 or higher or an appropriate score on the CUNY Mathematics Assessment Test.

MTH 123 College Algebra and Trigonometry
4 hours; 4 credits
Topics in algebra, including inequalities, logarithmic, exponential, trigonometric functions, graphs and equations, inverse functions, elements of analytic geometry. Introduction to the use of graphing calculators. (math) (RMQR) (STEM)
Prerequisite: MTH 030 or a corequisite of MTH 035, or an appropriate score on the CUNY Math Proficiency/Placement Exam

MTH 129 Algebra and Trigonometry Computer Laboratory
2 laboratory hours; 1 credit
Students will work individually or in small groups on assigned computer projects that will reinforce the concepts of algebra and trigonometry from the numerical and graphical points of view. Suitable mathematical software will be utilized. Applications of algebra and trigonometry as well as general problem solving techniques using the computer will be discussed.
Prereq- or corequisite: MTH 123 or MTH 130

MTH 130 Pre-Calculus Mathematics
4 hours; 3 credits
A functional approach to algebra and trigonometry. Selected topics such as trigonometric functions, trigonometric identities, inverse trigonometric functions, complex numbers, rational functions, introduction to analytic geometry, inequalities, absolute value, theory of equations. Graphing calculators are used. (math) (RMQR) (STEM)
Prerequisite: MTH 123 or an appropriate score on the CUNY Math Proficiency/Placement Exam

MTH 214 Applied Statistics Using Computers
4 hours; 4 credits
An introduction to statistics using modern statistical software to facilitate exploration of real-world data. The course includes exploratory data analysis, central tendency and spread, elementary probability, confidence intervals, tests of hypotheses, non-parametric tests, and linear regression. (math) (RMQR) (STEM)
Prerequisite: MTH 130 or MTH 221

MTH 217 Fundamentals of Mathematics I
(Also SLS 217)
4 hours; 4 credits
A study of the conceptual basis of arithmetic operations on integers, decimals and fractions designed for students seeking certification as elementary school teachers. Ideas behind familiar algorithms are explored using visual models, verbal problems, and other concrete representations. Emphasis is placed on students being able to provide verbal and written explanations for these ideas.
Prerequisites: A minimum GPA of 3.0 and MTH 123 or an appropriate score on the CUNY Mathematics Assessment Test

MTH 218 Fundamentals of Mathematics II
(Also SLS 218)
4 hours; 4 credits
A study of geometry, data representation, probability, and statistics designed for students planning to teach at the elementary or early-childhood level, with an emphasis on mathematical reasoning, problem solving, and communication. Builds on and is a continuation of MTH/SLS 217.
Prerequisite: A minimum GPA of 3.0, MTH/SLS 217 with a grade of C or higher

MTH 221 Applied Finite Mathematics and Business Calculus
4 hours; 4 credits
Linear programming (simplex method), decision analysis, mathematics of finance, Markov chains, elementary techniques of differentiation and integration of polynomial functions, maxima and minima problems, applications to business problems. This course is intended primarily for Accounting, Business and Economics students. (math) (RMQR) (STEM)
Prerequisite: MTH 121 or MTH 123
MTH 228 Discrete Mathematical Structures for Computer Science
(Also CSC 228)
4 hours; 4 credits
A discrete mathematics course where concepts of discrete structures will be applied to computer science. Topics include elementary set theory, logic, functions, relations, Boolean algebra, elements of graph theory, matrix representation of graphs, and matrix manipulations, mathematical induction, counting techniques, and discrete probability theory. NOTE: This course has a material fee.
Prerequisite: MTH 123 or MTH 130 or MTH 230 or MTH 231 or MTH 235

MTH 229 Calculus Computer Laboratory
2 laboratory hours; 1 credit
Computer projects to reinforce calculus concepts from numerical and graphical points of view will be presented. Suitable mathematical software will be utilized. Problem solving techniques using the computer will be discussed. The students will be assigned a number of projects to be completed individually or in small groups. (STEM)
Corequisite: MTH 230 or MTH 231 or MTH 235

MTH 230 Calculus I with Pre-Calculus
6 hours; 6 credits
Pre-calculus material including functions, inverse functions, identities, theory of equations, and the binomial theorem. Material on calculus and analytic geometry corresponding to MTH 231 including limits, derivatives, rules of differentiation, trigonometric functions and their derivatives, differentiation, graph sketching, maximum/minimum problems, related rates, antiderivatives, exponential and logarithmic functions. (math) (RMQR) (STEM). Not open to students who have completed MTH 130.
Prerequisite: MTH 123 with a grade of B or better or an appropriate score on the CUNY Math Proficiency/Placement exam
Corequisite: MTH 229

MTH 231 Analytic Geometry and Calculus I
4 hours; 3 credits
The first of a three-semester sequence in calculus. Topics include limits, derivatives, rules of differentiation, trigonometric functions and their derivatives, differentials, graph sketching, maximum and minimum problems, related rates, antiderivatives, areas, exponential and logarithmic functions. (math) (RMQR) (STEM)
Prerequisite: MTH 123 with a grade of A or MTH 130 or an appropriate score on the CUNY Proficiency/Placement Exam
Corequisite: MTH 229

MTH 232 Analytic Geometry and Calculus II
4 hours; 3 credits
The second of a three-semester sequence in calculus. Topics include areas between curves, volumes of solids of revolution, techniques of integration, sequences and series, improper integrals, polar coordinates, and parametric representation of curves. (RMQR) (STEM)
Prerequisite: MTH 230 or MTH 231
Pre- or corequisite: MTH 229

MTH 233 Analytic Geometry and Calculus III
4 hours; 3 credits
The third of a three-semester sequence in calculus. Topics include vectors, solid analytic geometry, partial derivatives, multiple integrals with applications. (STEM) (RMQR)
Prerequisite: MTH 232
Pre- or corequisite: MTH 229

MTH 235 Accelerated Calculus I
6 hours; 5 credits
Differential and integral calculus of functions of a single variable; the derivative, integration, transcendental functions; evaluation of integrals. (math) (RMQR) (STEM)
Prerequisite: MTH 130 or an appropriate score on the CUNY Proficiency/Placement Exam
Corequisite: MTH 229

MTH 236 Accelerated Calculus II
6 hours; 5 credits
Differential and integral calculus of functions of more than one variable. Infinite sequences and series, polar coordinates, elements of vector analysis, partial derivatives, multiple integrals.
Prerequisite: MTH 235
Pre- or corequisite: MTH 229

MTH 306 History of Mathematical Thought
4 hours; 4 credits
Prerequisite: MTH 233 or MTH 236

MTH 311 Probability Theory and an Introduction to Mathematical Statistics
4 hours; 4 credits
A calculus-based treatment of elementary probability theory, where the notion of sample space, events, and probability is introduced. The basic probability models are discussed. Notion of density and distribution function is introduced. Furthermore, conditioning, independence, and expectation are discussed. Basic concepts of statistics, sample, parameter estimation, confidence interval, hypothesis testing, and central limit theorem are treated.
Prerequisite: MTH 233 or MTH 236

MTH 329 Geometry
4 hours; 4 credits
This course addresses fundamental topics in Euclidean and coordinate geometry in two and three dimensions, introduces concepts from non-Euclidean geometry, and explores applications to areas such as image processing or map making. Topics include classical axiomatic geometry, symmetry and similarity, transformations and matrix representation, characterization of polygons and polyhedra, and representation of curves and surfaces.
Prerequisite: MTH 233 or MTH 236
MTH 330 Applied Mathematical Analysis I  
6 hours; 4 credits  
Advanced mathematics for engineering and science students. Ordinary differential equations, linear algebra, eigenvalue problems, systems of ordinary linear differential equations. Laplace transforms. Credit will not be given for both MTH 330 and MTH 334.  
Prerequisite: MTH 233 or MTH 236

MTH 331 Applied Mathematical Analysis II  
4 hours; 4 credits  
Vector analysis, partial differentiation, partial differential equations, Sturm-Liouville theory, and Fourier analysis.  
Prerequisite: MTH 330

MTH 334 Differential Equations  
4 hours; 4 credits  
Formulation and solution of ordinary differential equations. Reduction of order, operational techniques, a place system of equations, Frobenius methods, boundary value problems, transform solutions, special functions, and existence and uniqueness theorems. Applications from science and engineering. Credit will not be given for both MTH 330 and MTH 334.  
Prerequisite: MTH 233 or MTH 236

MTH 335 Numerical Analysis  
4 hours; 4 credits  
Solution of equations, interpolation, and approximation; convergence; numerical differentiation and numerical solution of initial value problems in ordinary differential equations; selected algorithms programmed for solution on computers. The solution of linear systems by direct and iterative methods. Matrix inversion, the calculation of eigenvectors and eigenvalues of matrices. Numerical integration; approximation of polynomials.  
Prerequisites: CSC 126 or CSC 270; and MTH 338 or Corequisite: MTH 330

MTH 337 Applied Combinatorics and Graph Theory  
4 hours; 4 credits  
Arrangements selection and counting methods, generating functions, recurrence relations, the principle of inclusion and exclusion, and the pigeonhole principle. Introduction to graph theory, trees and searching, Eulerian and Hamiltonian Circuits, planar graphs and coloring of graphs, applications to optimization problems such as network flows.  
Prerequisite: MTH 232

MTH 338 Linear Algebra  
4 hours; 4 credits  
An introduction to the computational and theoretical aspects of linear systems and linear transformations and to the writing of mathematical proofs. This is a core topic in mathematics, with applications in many fields. Topics include systems of linear equations, matrices, matrix equations, determinants, vector spaces, linear transformations, linear dependence, eigenvalues, and eigenvectors; with selected applications.  
Prerequisite: MTH 232

MTH 339 Applied Algebra  
4 hours; 4 credits  
Group Theory; groups of symmetries, modular number systems, equivalence relations, properties of groups, subgroups, permutation groups, Lagrange's Theorem, Burnside's Theorem, homomorphism, isomorphism theorems. Group Codes: construction of group codes and error-correcting codes.  
Prerequisites: MTH 233 or MTH 236  
Pre- or corequisite: MTH 338

MTH 341 Advanced Calculus I  
4 hours; 4 credits  
The real number system, continuous functions, functions of several variables, partial differentiation, implicit functions, integration theory, infinite series, and power series.  
Prerequisite: MTH 233 or MTH 236

MTH 342 Advanced Calculus II  
4 hours; 4 credits  
Vectors, multiple integrals, line and surface integrals, transformation of coordinates, improper integrals, and special functions.  
Prerequisite: MTH 341

MTH 347 Number Theory  
4 hours; 4 credits  
Mathematical induction, divisibility, prime numbers, Euclidean algorithm, factorization methods, Diophantine equations, congruences, Chinese remainder theorem, systems of congruences, Fermat's little theorem, multiplicative functions, public key cryptography, primitive roots, primality tests, quadratic reciprocity, Pythagorean triples, Fermat's last theorem, and sums of squares. Other topics may include continued fractions and partitions.  
Prerequisite: MTH 232

MTH 349 Cryptology  
4 hours; 4 credits  
Cryptology includes cryptography, cryptanalysis, and several other related problems. Cryptography is the art and science of concealing messages; cryptanalysis is the discovery of concealed messages. In this course, the students will learn several pre-cold-war systems of cryptography, the mathematics behind their cryptanalysis; several modern systems, and understand why the modern systems do not suffer from the same defects.  
Prerequisite: MTH 232

MTH 350 Mathematical Logic  
(Also PHL 321)  
4 hours; 4 credits  
Prerequisite: MTH 233 or MTH 236

MTH 360 Actuarial Science  
2 hours; 2 credits  
Intensive review of concepts from calculus and linear algebra with special attention to actuarial applications. This
course may not be used to satisfy the requirements for the Mathematics major.
Prerequisite: MTH 330 or MTH 338

MTH 370  Operations Research
4 hours; 4 credits
An introduction to Operations Research, an interdiscipli-
ary branch of applied mathematics which is widely used
for complex decision making. The course will develop
mathematical models for optimization problems, empha-
sizing Linear Programming (LP), and including other
basic models, such as Integer Programming (IP) and
Network Flow. Solution of LP problems using the Sim-
plex method will be studied, along with methods of other
models. Students will solve problems using software
packages. Additional topics may include LP duality and
sensitivity analysis, IP methods such as
Branch-and-Bound, transportation models, shortest-path
and maximum flow problems, or critical-path analysis.
Prerequisites: MTH 338

MTH 410  Mathematical Statistics I
4 hours; 4 credits
A course in the basic concepts of applied mathematical
statistics: parametric models, estimation, confidence in-
tervals, hypothesis testing.
Prerequisite: MTH 311

MTH 411  Mathematical Statistics II
4 hours; 4 credits
A continuation of MTH 410, topics in applied mathemati-
cal statistics including regression and correlation, the lin-
ear model, analysis of variance, randomized block de-
signs, non-parametric methods.
Prerequisite: MTH 410

MTH 415  Mathematical Biology
(Also BIO 415)
4 hours; 4 credits
This course will address the growing interaction between
mathematics and the biological sciences and will provide
a practical context for the mathematical description and
analysis of biological processes. The emphasis will be on
the construction and analysis of models consistent with
empirical data. Biological problems in ecology and con-
servation, epidemiology, cell biology, and neuroscience
will be used to illustrate the equations, including espe-
cially nonlinear equations. The computer program
MATLAB will be used extensively.
Prerequisites: MTH 230 and MTH 231 or equivalent,
MTH 229, and one BIO 300-level course

MTH 416  Mathematics of Finance
(Also FNC 416)
4 hours; 4 credits
Introduction to the mathematical theory of derivative pric-
ing, binomial trees and martingales, Black-Scholes for-
mula, stochastic differential equations, Itô calculus, and
Girsanov theorem.
Prerequisite: MTH 311

MTH 430  Partial Differential Equations
4 hours; 4 credits
An introduction to partial differential equations for ad-
vanced undergraduates. Topics covered include first
order PDE's and methods of characteristics, classification
of second order PDE's, analysis of prototype hyperbolic,
parabolic, and elliptic equations with applications to
physics and engineering, Fourier series solutions to sec-
ond order PDE's.
Prerequisite: MTH 330 or MTH 334

MTH 431  Complex Analysis
4 hours; 4 credits
Functions of a complex variable; Cauchy integral theo-
rem; power series, residues, and poles; elementary con-
formal mapping. Applications to problems in physics and
engineering will be considered.
Prerequisite: MTH 330

MTH 435  Nonlinear Dynamics and Chaos
4 hours; 4 credits
An introduction to nonlinear problems in mathematics.
Subjects to be covered include bifurcation theory, non-
linear oscillation, phase plane analysis, limit cycles.
Poincaré and Liénard theorems. Lorenz equations and
chaos, strange attractors, the logistic equation, period
doubling, fractals. Applications are to problems in bio-
logical and physical systems and engineering science.
The course will make extensive use of computers.
Prerequisite: MTH 330 or MTH 334

MTH 437  Introduction to Mathematical
Modeling
4 hours; 4 credits
A project-based introduction to the essential components
of mathematical modeling. Using fully developed case
studies and exploratory student projects, the aim is to
provide a broad perspective on modeling physical, bio-
logical, and societal phenomena using modern mathe-
atical methods. In particular, emphasis will be placed
on three prototypical modeling paradigms: dynamical
systems, statistical/probabilistic modeling, and optimiza-
tion.
Prerequisite: MTH 330 or MTH 311

MTH 440  Foundations of Mathematics
(Also PHL 420)
4 hours; 4 credits
Postulate systems and their interpretations; sets, groups,
rings, and ordered fields; partially ordered sets and lat-
tices; theory of cardinal and ordinal numbers;
well-ordered sets and transfinite induction; Boolean rings;
mathematical logic.
Prerequisite: MTH 339 or MTH 350

MTH 441  Topology
4 hours; 4 credits
Set theory; topology of the real line, Cauchy sequences,
open sets, connected sets, limit points and closed sets,
bounded sets, compactness, continuous functions; topo-
logical spaces, mappings, subspaces, homomorphisms,
metric spaces.
Prerequisite: MTH 233 or MTH 236

MTH 442  Abstract Algebra
4 hours; 4 credits

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Rings, integral domains, fundamental theorems of ring theory, polynomial rings, fields, extension fields, algebraic extensions, introduction to Galois theory, coding theory, polynomial codes.

Prerequisite: MTH 339

**MTH 445  Introduction to Differential Geometry**
4 hours; 4 credits
An introduction to calculus on curves and surfaces in two and three dimensional Euclidean spaces using the techniques of differential and integral calculus and linear algebra. Topics will be selected from Frenet-Serret frames, intrinsic and extrinsic properties of surfaces, Gaussian and mean curvature, geodesics, minimal surfaces, and the Gauss-Bonnet theorem.

Prerequisite: (MTH 330 or MTH 334) and MTH 338

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**Medical Technology**
(Bachelor of Science)
Department of Biology, Building 6S, Room 143
Chairperson and Professor Alejandra Del Carmen Alonso
Medical Technology Webpage

The Medical Technology baccalaureate program prepares students for interesting and rewarding careers in the health field.

The Medical Technology Program requires three years of coursework and two semesters/sessions of clinical training. The clinical training may be completed in hospital programs accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS) or in hospitals approved for training by the New York State Department of Health. The CSI Medical Technology Program has been granted NAACLS accreditation and is continually negotiating more clinical training sites to provide even more choices for our students.

The skills acquired encompass a broad range of disciplines, which include hematology, clinical chemistry, molecular diagnostics, microbiology, serology, immunology, histology, and blood transfusion technology. Employment opportunities are available in laboratories of public, private, and voluntary hospitals; in industrial, pharmaceutical, and private clinical laboratories; and in physicians' offices.

On completion of the program, the student is awarded the BS degree in Medical Technology. Graduates are then eligible to take the American Society of Clinical Pathology (ASCP) certification exam as Medical Laboratory Scientists (MLS) (http://www.ascp.org/Board-of-Certification). Graduates are eligible for licensure by New York State (please visit http://www.op.nysed.gov for details).

Admissions: The Medical Technology Program has an admissions process and will accept students for Fall semesters each year. Admission is competitive and based on academic performance. Eligibility depends upon academic record, application completion and letters of reference, along with a personal narrative. In addition, there is an interview for applicants administered by the Medical Technology Program Admissions Committee. More admissions information can be found on the Medical Technology Website.

A minimum grade of C is required for a course to be used to satisfy a prerequisite for a biology or medical technology course required for the major requirements for the BS in Medical Technology. To qualify for graduation, students must have at least a 3.0 grade point average (GPA) in the courses that make up the Medical Technology major.

Graduates will have all the necessary classes to go on to further education, including Medical School, Dental School, PA and PT programs while working in a growing field. The need for Medical Technologists has grown substantially, and our graduates are in constant demand.

The number of available training positions is limited. Placement, therefore, can be competitive and acceptance is influenced strongly by academic performance. The College is affiliated with a number of hospitals and provides guidance so that as many students as possible are placed. The College, however, cannot promise or guarantee that each student is placed.

**Hospital Affiliations:**
Staten Island University Hospital (Staten Island)
North Shore/Long Island University Hospital (Queens/Long Island)
Lutheran Hospital (Brooklyn)
Elmhurst City Hospital (Queens)
Montefiore Medical Center (Bronx)

**National Accrediting Agency for Clinical Laboratory Science (NAACLS)**
773.714.8880
5600 N. River Road, Suite 720
Rosemont, IL 60018-5119

**American Society for Clinical Pathology (ASCP)**
312.738.1336
Board of Registry
Department #77-3335
Chicago, IL 60678-3335
Students join ASCP for free.

**Medical Technology (BS): Medical Technologist Option**

**Medical Technologist Option**
The Medical Technology Program has an admissions process and will accept students for Fall semesters each year. Admission is competitive and based on clinical internship site availability. Eligibility depends upon academic record, application completion and letters of reference, along with a personal narrative. In addition, there is an interview for applicants as well, performed by the Medical Technology Program Admissions Committee. More admissions information can be found on the Medical Technology Website.

A minimum grade of C is required for a course to be used to satisfy a prerequisite for a biology or medical technology course required for the major requirements for the BS in Medical Technology. To qualify for graduation, students must have at least a 3.0 grade point av-
average (GPA) in the courses that make up the Medical Technology major.

**Pathways Required Core: 13 credits**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition (RECR)</td>
<td>6</td>
</tr>
<tr>
<td>ENG 111 Introduction to College Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENG 151 College Writing</td>
<td>3</td>
</tr>
<tr>
<td>Mathematical and Quantitative Reasoning</td>
<td>4</td>
</tr>
<tr>
<td>Students are required to complete the following course:</td>
<td></td>
</tr>
<tr>
<td>MTH 123 College Algebra and Trigonometry</td>
<td>3</td>
</tr>
<tr>
<td>Life and Physical Sciences (RLPR)</td>
<td>3</td>
</tr>
<tr>
<td>Students are required to complete the following course:</td>
<td></td>
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<tr>
<td>BIO 170 General Biology I*</td>
<td></td>
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</tbody>
</table>

**Pathways Flexible Core: 20 credits**

Students may take no more than two courses from any discipline or interdisciplinary field in the Flexible Core.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. Experience in its Diversity (FUSR)</td>
<td>3</td>
</tr>
<tr>
<td>COR 100 United States: Issues, Ideas, and Institutions</td>
<td></td>
</tr>
<tr>
<td>Individual and Society (FISR)</td>
<td>3</td>
</tr>
<tr>
<td>Students are required to complete the following course:</td>
<td></td>
</tr>
<tr>
<td>PHL 130 Scientific World (FSWR)</td>
<td>8</td>
</tr>
<tr>
<td>Students are required to complete the following courses:</td>
<td></td>
</tr>
<tr>
<td>CHM 240 Analytical Chemistry**</td>
<td>4</td>
</tr>
<tr>
<td>CHM 250 Organic Chemistry **</td>
<td>4</td>
</tr>
<tr>
<td>World Cultures and Global Issues (FWGR)</td>
<td>3</td>
</tr>
<tr>
<td>Creative Expression (FCER)</td>
<td>3</td>
</tr>
</tbody>
</table>

**College Option: 12 credits**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Social Science or TALA</td>
<td>4</td>
</tr>
<tr>
<td>Science Lab for RLPR:</td>
<td>1</td>
</tr>
<tr>
<td>Students are required to complete the following course:</td>
<td></td>
</tr>
<tr>
<td>BIO 171 General Biology I Laboratory*</td>
<td></td>
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<tr>
<td>STEM PHY 116 Physics I</td>
<td>4</td>
</tr>
<tr>
<td>STEM CHM 141 General Chemistry I*</td>
<td>3</td>
</tr>
</tbody>
</table>

*Also fulfills pre-major requirements.

**Major Requirements: 77 credits**

A minimum grade of C is required for a biology course to be used to satisfy a prerequisite for a biology course required for the major requirements for the BS in Medical Technology. To qualify for graduation, students must have at least a 3.0 grade point average (GPA) in the courses that make up the Medical Technology major.

**Major Required Courses: 65 credits**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 272 Biometrics</td>
<td>4</td>
</tr>
<tr>
<td>OR</td>
<td></td>
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<tr>
<td>MTH 214 Applied Statistics Using Computers</td>
<td>4</td>
</tr>
<tr>
<td>BIO 316 Clinical Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>BIO 318 Histology</td>
<td>4</td>
</tr>
<tr>
<td>BIO 346 General Virology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 442 Immunology</td>
<td>4</td>
</tr>
<tr>
<td>CHM 240 Analytical Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>CHM 250 Organic Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHM 256 Organic Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>PHY 116 Physics I</td>
<td>4</td>
</tr>
<tr>
<td>PHY 156 Physics II</td>
<td>4</td>
</tr>
<tr>
<td>MDT 100 Hematology</td>
<td>4</td>
</tr>
<tr>
<td>MDT 160 Clinical Science</td>
<td>4</td>
</tr>
<tr>
<td>MDT 310 Blood Transfusion Technology</td>
<td>4</td>
</tr>
<tr>
<td>BIO/MDT Diagnostic Molecular Biology</td>
<td>4</td>
</tr>
<tr>
<td>MDT 371 Clinical Parasitology</td>
<td>3</td>
</tr>
<tr>
<td>MDT 372 Medical Mycology</td>
<td>3</td>
</tr>
<tr>
<td>MDT 375 Comprehensive Review</td>
<td>2</td>
</tr>
<tr>
<td>MDT 384 Laboratory Operations and Management</td>
<td>2</td>
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<tr>
<td>A student must complete a minimum of 16 credits at the College of Staten Island in courses designated pre-clinical to receive the Baccalaureate degree in Medical Technology. These credits must include CHM 250 and CHM 256.</td>
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</tbody>
</table>

**Clinical: 12 credits**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MDT 381 Clinical Chemistry Training</td>
<td>2</td>
</tr>
<tr>
<td>MDT 382 Hematology Coagulation Training</td>
<td>2</td>
</tr>
<tr>
<td>MDT 383 Clinical Microscopy Training</td>
<td>2</td>
</tr>
<tr>
<td>MDT 481 Clinical Microbiology Training</td>
<td>2</td>
</tr>
<tr>
<td>MDT 482 Immunohematology Training</td>
<td>2</td>
</tr>
<tr>
<td>MDT 483 Serology Immunology Training</td>
<td>1</td>
</tr>
<tr>
<td>MDT 484 Clinical Parasitology Training</td>
<td>1</td>
</tr>
</tbody>
</table>

**Total Credits Required: 128**

**Liberal Arts and Sciences Requirement**

All courses designated MDT and the course BIO 316 are non-liberal arts and sciences.
Honors

To graduate with Honors in Medical Technology a student must have a 3.5 grade point average in medical technology courses and must complete an eight-credit Independent Study project under the tutelage of a faculty member from one of the physical or biological sciences. The project must be reviewed and approved by the Interdisciplinary Committee for Medical Technology.

Medical Technology Courses

MDT 100  Hematology
3 class hours, 3 laboratory hours; 4 credits
Introduction to the study of hematology with emphasis on the formation and functions of normal blood cells, identification of normal and abnormal blood cell types, variations in blood picture associated with hematologic disorders, and hemostasis and coagulation. Laboratory practice includes complete blood counts, studies of peripheral blood and bone marrow smears, special tests for hematologic disorders, and basic coagulation procedures. Note: Students must receive a grade of C or better in MDT 100 to proceed to MDT 160. NOTE: This course has a material fee.
Prerequisite: BIO 090 or a satisfactory score on the Biology Placement Test and permission of the program coordinator
Pre- or corequisites: BIO 170 and 171

MDT 310  Blood Transfusion Technology
2 class hours, 4 laboratory hours; 4 credits
An introduction to the nature, significance, and distribution of blood group antigens and antibodies; fundamentals of basic immunology, compatibility testing, and other procedures associated with a clinical blood bank. Laboratory practice includes duplicate testing for blood groups, cross-matching, antibody screening, hepatitis antigen testing, component preparation, and other significant tests. NOTE: This course has a material fee.
Prerequisites: BIO 180, 181, and MDT 100 or equivalent

MDT 318  Cytotechnology and Cytologic Techniques
3 class hours, 3 laboratory hours; 4 credits
Topics include cytogenetics, molecular biology, and histology correlations, as well as laboratory techniques in specimen collection, processing procedures, and microscopic interpretations used for the detection of cancerous or pre-cancerous cells. NOTE: This course has a material fee.
Prerequisites: BIO 180 and 181, and BIO 318 and/or equivalent laboratory experience

MDT 319  Cytotechnology Training I
12 credits
Prerequisite: Permission of the Medical Technology coordinator

MDT 321  Histotechnology Training I
12 credits
Prerequisite: Permission of the Medical Technology coordinator

MDT 325  Diagnostic Molecular Biology
(Also BIO 325)
3 class hours, 3 laboratory hours; 4 credits
This course will address the theoretical and practical framework for the understanding and application of molecular biology techniques in the clinical laboratory. The course material will cover the principles and applications of recombinant DNA technology including DNA-DNA hybridization, DNA amplification and nonradioactive in situ hybridization (HISH) for the detection and identification of microorganisms associated with infectious diseases.
Prerequisites: BIO 314, CHM 142

MDT 365  Radiochemistry and Radiochemical Analysis
4 hours; 4 credits
Nuclear physics and nuclear radiochemistry for the clinical laboratory. The theory and characteristics of various types of radiation are discussed. Health physics and statistical analysis of data are included, and the use of radioactive tracers and neutron activation are treated theoretically. In addition, radio-chemicals, radio-pharmaceuticals, and nuclear medicine procedures will be discussed.
Prerequisites: BIO 180 and BIO 181 or BIO 160 and CHM 250 and PHY 116

MDT 371  Clinical Parasitology
3 hours; 3 credits
As a survey of clinically relevant parasites, this course is designed to expose students to the identification and clinical relevance of a variety of microscopic and macroscopic vectors of disease.
Prerequisites: BIO 316

MDT 372  Medical Mycology
3 hours; 3 credits
A survey of morphology, cultural characteristics and taxonomy of pathogenic fungi, and their role in human disease.
Prerequisites: BIO 316

MDT 375  Comprehensive Review
2 hours; 2 credits
An overview of the Medical Technology curriculum designed to validate the knowledge acquired during the course of study, which further prepares Medical Technology students to take the American Society of Clinical Pathology (ASCP) National Certification exam or a State licensing exam when required. Students utilizing various methodologies will review and demonstrate a comprehensive understanding of Clinical Chemistry, Hematology and Coagulation, Immunohematology, Microbiology, Parasitology, Mycology, Immunology, Serology, and Body Fluid Analysis. Practice exams for the National Certification exam will demonstrate proficiency/competency in each of these areas.
Prerequisites: BIO/MDT 325

MDT 380  Medical Technology Training I
10 credits
Prerequisite: Permission of the Medical Technology coordinator
MDT 381  Clinical Chemistry Training  2 credits
Prerequisite: Admission to the Medical Technology Program

MDT 382  Hematology-Coagulation Training  2 credits
Prerequisite: Admission to the Medical Technology Program

MDT 383  Clinical Microscopy Training  1 credit
Prerequisite: Admission to the Medical Technology Program

MDT 384  Laboratory Operations and Management  2 credits; 2 hours
A laboratory operations and management course to prepare Medical Technology students to take the American Society of Clinical Pathologists (ASCP) National Certification exam and the New York State licensing exam. It will prepare students for the career advancement in the laboratory, beyond entry level employment. Students will have a comprehensive understanding of Principles of Laboratory Management, Operations, Human Resource Management, Financial Management, and Strategies for Career Success. Included among these are an understanding of ethical issues in laboratory management, career planning, managerial problem solving and decision making, and education techniques. (liberal arts & science)
Prerequisite: CHM 240

MDT 395  Nuclear Medicine Training I  14 credits
Prerequisite: Permission of the Medical Technology coordinator

MDT 419  Cytotechnology Training II  14 credits
Prerequisite: Permission of the Medical Technology coordinator

MDT 421  Histotechnology Training II  12 credits
Prerequisite: Permission of the Medical Technology coordinator

MDT 480  Medical Technology Training II  12 credits
A continuation of MDT 380.
Prerequisites: MDT 380 and permission of the Medical Technology coordinator

MDT 481  Clinical Microbiology Training  2 credits
Prerequisites: Admission to the Medical Technology Program

MDT 482  Immuno-Hematology Training  2 credits
Prerequisites: Admission to the Medical Technology Program

MDT 483  Serology-Immunology Training  1 credit
Prerequisites: Admission to the Medical Technology Program

MDT 484  Clinical Parasitology Training  1 credit
Prerequisite: Admission to the Medical Technology Program

MDT 495  Nuclear Medicine Training II  14 credits
A continuation of MDT 395.
Prerequisites: MDT 395 and permission of the Medical Technology coordinator

Music
(Bachelor of Arts, Bachelor of Science, Minor)
Department of Performing and Creative Arts
Chairperson and Professor George Emilio Sanchez
Coordinator: Michael Morreale, Lecturer of Music, Center for the Arts (1P), Room 128-A
Telephone: 718.982.2073

The College of Staten Island offers the following undergraduate degrees in Music:
Bachelor of Arts (B.A.)
Bachelor of Science (B.S.) with concentrations in
- Classical Performance, Literature, and Theory
- Music Technology
- Jazz Studies and Performance

Music (BA)
The Bachelor of Arts in Music degree provides basic training in all areas of music and serves as a foundation for graduate study of any specialized aspect of the field. It requires no fewer than four consecutive semesters of courses in music theory, musicianship, and music history. All sequences begin in the fall. Prospective majors must plan their programs so that they are prepared to begin major courses in a fall semester at least two years before they plan to graduate. It is preferable to begin the 200-level major courses three years before graduation to allow time in the senior year for advanced electives.

Students must complete or exempt through examination MUS 120 and MUS 123 or 124 and complete and pass MUS 125 (spring semester) before taking 200-level theory, musicianship, or music history classes. Prospective majors must earn a minimum grade of B- in all three courses or proficiency exams in order to declare the Music major. Once you have taken or been exempted from these courses, you may file your Music major declaration with the Registrar. The declaration form is available at www.csi.cuny.edu/registrar/importantforms.

In order to declare the BA in Music students must complete the following:
• ENG 111, ENG 151, COR 100, PED 190 before entering the first semester of 200-level Music major courses, preferably within the first 36 credits.

• ENG 151 is the pre or corequisite for Music History I-IV. This course satisfies the General Education requirement of a second level writing course.

• Students must complete or exempt through examination MUS 120 and MUS 123 or 124, and complete and pass MUS 125 (spring semester) before taking 200-level theory, musicianship, or music history classes. Prospective majors must earn a minimum grade of B- in all three courses or proficiency exams in order to declare the Music major.

• Piano skills are critical for all musicians. All potential Music majors must demonstrate elementary proficiency at the piano before declaring the major. Students should plan to fulfill this requirement no later than the spring semester in which they take MUS 125. Students entering CSI with limited keyboard background may take MUS 123 Piano I and, if necessary, MUS 124 Piano II (both of which are offered every semester) as a pre-major requirement, or they may take private lessons in piano at their own expense. The Music Program has a list of recommended piano teachers.

• All Music majors are expected to have a working knowledge of a music notation software program such as Sibelius (the program used in the CSI Music Lab) or Finale before they enter the major. Basic Sibelius skills are taught in MUS 125 Introduction to Music Theory. Transfer students and other students who do not take MUS 125 are required to acquire basic knowledge of a music software program by the end of MUS 225 Music Theory I.

In addition to ENG 111, ENG 151, COR 100, and PED 190, students must complete an ENH 200-level course in order to register for any music courses at the 300-level and above.

The BA in Music offers students a strong general music education. All undergraduate music majors include training performance, musicianship, music theory, and music history, in the context of a strong liberal-arts degree program. It provides basic training in all areas of music and services as foundation for graduation study of an aspect of the field. Many other subjects, including composition, jazz studies, and music technology, are available as electives.

Requirements: 40-49 credits

Pre-Major requirements for the BA in Music: 0-5 credits
MUS 120 Rudiments of Music 0-3 credits
   (may be waived through examination)
or
MUS 125 Introduction to Music Theory 0-3 credits
   (may be waived through examination) MUS 125 runs only in the spring semester. Students who intend to declare the BA in Music should complete MUS 125 in the spring semester before declaration of the major.
MUS 123 Piano I 0-1 credit
   (may be waived through examination)
MUS 124 Piano II 0-1 credit
   (may be waived through examination)
A minimum grade of B- must be earned in all required pre-major courses in order to advance to core Music courses at the 200-level.

Core Curriculum (40-44 credits)
MUS 203 Music History I: History of Jazz 3 credits
MUS 204 Music History II: History of Western Music from Antiquity to 1750 3 credits
MUS 223 Keyboard Musicianship I 1 credit
MUS 224 Keyboard Musicianship II 1 credit
MUS 225 Music Theory I 3 credits
MUS 226 Music Theory II 3 credits
MUS 243 Musicianship I 1 credit
MUS 244 Musicianship II 1 credit
MUS 303 Music History III: Western Music From 1750-1900 3 credits
MUS 304 Music History IV: Western Music From 1900-Present 3 credits
MUS 322 Counterpoint 3 credits
MUS 323 Keyboard Musicianship III 1 credit
MUS 325 Keyboard Musicianship IV 1 credit
MUS 326 Instrumentation and Scoring 2 credits
MUS 363 Musicianship III 1 credit
MUS 364 Musicianship IV 1 credit
MUS 424 Score Analysis 3 credits
MUS 431 Conducting 2 credits

Four courses from the following list: 4 credits
MUS 115 Ensemble I 1 credit
MUS 116 Ensemble II 1 credit
MUS 130 Guitar Ensemble I 1 credit
MUS 131 Guitar Ensemble II 1 credit
MUS 144 Jazz Ensemble I 1 credit
MUS 145 Jazz Ensemble II 1 credit
MUS 150 Chorus I 1 credit
MUS 151 Chorus II 1 credit
MUS 164 Orchestra I 1 credit
MUS 165 Orchestra II 1 credit
MUS 215 Ensemble III 1 credit
MUS 216 Ensemble IV 1 credit
MUS 233 Guitar Ensemble III 1 credit
MUS 234 Guitar Ensemble IV 1 credit
MUS 246 Jazz Ensemble III 1 credit
MUS 247 Jazz Ensemble IV 1 credit
MUS 249 Jazz Combo 1 credit
MUS 250 Chorus III 1 credit
MUS 251 Chorus IV 1 credit
MUS 264 Orchestra III 1 credit
MUS 265 Orchestra IV 1 credit
MUS 349 Jazz Repertoire Combo 1 credit

Advanced Music elective: one course at the 200-level or above 2-4 credits
AND
Foreign Language Requirement 0-4 credits
Demonstration of proficiency in a language through the intermediate level, 213 or above.
**Electives: 34-38 credits**

**Total Credits Required: 120**

A student must earn a grade of C or higher in all pre-requisite Music courses in order to advance to the next core course in the sequence of required courses. Exceptionally, a student who receives a D may be given permission to continue in the sequence if recommended by both the instructor and the full-time Music faculty.

**Ensemble Requirement**

Participation in all ensembles is contingent on an audition and permission of a full-time Music faculty member. All music students are required to participate in a minimum of four semesters of a performing ensemble. Enrollment in a performing ensemble course each semester is encouraged. Ensemble courses taken after the fourth semester may count as electives, but will not apply toward the credits required for the BA in Music.

**Private Instruction in Voice and Instrument**

The college funds private lessons for a limited number of qualified Music majors in the B.A. program. Students who are pursuing a major in Music, who earn a 2.7 GPA in required pre-major or core Music courses and who are making appropriate progress toward fulfilling the degree requirements, are eligible for enrollment in college-funded private instruction for credit. Admission into private instruction is determined by audition, which must take place prior to registration in MUS 181. In order to qualify for private lessons, students will be asked to perform major and minor scales and arpeggios, two prepared pieces, and will be asked to read a short musical composition at sight. In the B.A., private lessons are elective. Students enrolled in private lessons must maintain a 2.7 cumulative average in core music courses. For each semester of private lessons, the student must be enrolled in at least six credits of music classes and must be enrolled in an Ensemble. These courses (MUS 181, MUS 191, MUS 281, MUS 291, MUS 381, MUS 391, MUS 481, MUS 491)—which may not be repeated—are non-liberal arts and sciences courses and should be taken in sequence. Performance Workshop (MUS 180, MUS 190, MUS 280, MUS 290, MUS 380, MUS 390, MUS 480, MUS 490) is co-requisite with private lessons. Students who are enrolled in college-funded lessons must satisfy the following criteria in order to remain eligible on a semester-by-semester basis:

1. earn an average GPA of 2.7 in pre-major or core Music courses;
2. receive a grade of B in the juried examination that takes place at the end of each semester;
3. make satisfactory progress towards completing the B.A. in Music through:
   a. full-time enrollment status at CSI (12 credits or more for each semester of lessons);
   b. enrollment in 6 or more credits of Music courses in each semester of study;
4. be enrolled in an ensemble for each semester of enrollment in private lessons.

**Enrollment in Chamber Music and Other Small Ensembles**

The college funds enrollment in chamber music, small jazz ensembles, and other small ensembles for a limited number of qualified Music majors. Students who are pursuing a major in Music and who are making appropriate progress toward fulfilling the degree requirements are eligible for enrollment in college-funded private instruction for credit. Admission into small ensembles is determined by audition, which must take place prior to registration in MUS 115. Students enrolled in chamber music, small jazz ensembles, and small ensembles must maintain a 2.7 cumulative average in academic music classes (theory, history, and musicianship). For each semester of private lessons, the student must be enrolled in at least six credits of music classes. (Some flexibility is possible for first- and last-semester students.) Students may receive credit for a maximum of eight semesters of private lessons. These courses (MUS 115, MUS 116, MUS 215, MUS 216) are non-liberal arts and sciences courses and should be taken in sequence. MUS 216 may be repeated for credit. Students who are enrolled in college-funded small ensembles must satisfy the following criteria in order to remain eligible on a semester-by-semester basis:

1. rehearse with the ensemble every week;
2. give a public performance, which serves as a final examination, at the end of each semester of enrollment;
3. maintain full-time enrollment status at CSI (12 credits or more for each semester of ensemble);
4. make satisfactory progress toward completing the Music degree.

**Junior and Senior Project Courses**

Courses numbered MUS 383, MUS 394, MUS 483, and MUS 494 are project courses. They are available to Music majors who wish to perform a full-length public recital, write a large-scale composition, or complete a research project in music theory or music history of significant scope and length. A full-time music faculty member and/or applied music instructor must supervise any of these endeavors. Students who wish to enroll in MUS 383 Junior Project in Performance and MUS 483 Senior Project in Performance must fulfill the following requirements:

1. be enrolled in private lessons with a CSI applied music professor for no fewer than two consecutive semesters prior to registering for a junior or senior recital;
2. earn a grade of B+ or higher every semester before enrollment in junior or senior recital;
3. at the end of the semester before the recital, perform before a jury of Music faculty members a 20-minute audition of music in diverse styles representative of the repertoire to be performed on the recital.

At the request of the student, when the grade point average warrants the appellation, these courses may be designated as Junior Honors Project or Senior Honors Project. Juniors who hope to enroll in either MUS 383 or MUS 393 must have completed at least 25 credits of the general education requirement, including ENG 151, COR 100, and PED 190.
Honors
To graduate with honors in Music a student must have a 3.5 grade point average in music courses and must complete an honors thesis in composition or performance under the supervision of a full-time faculty member.

Liberal Arts and Sciences Requirement
For the BA in Music, at least 90 credits must be in liberal arts and sciences courses. For the BS in Music, at least 60 credits must be in liberal arts and sciences courses. Music performance courses are non-liberal arts and sciences.

Music (BS)
The B.S. degree in Music is intended for musically and academically talented students who have serious ambitions in the field of music performance, teaching, scholarship, or related fields. It provides intensive instruction in the student's major instrument or voice, as well as solid training in music theory, history, technology, and a broad, liberal arts education. Admission to this program is conditional on passing an audition demonstrating a high level of skill in performance.

Students accepted into this program generally begin the degree in their second year in the Music major, after the completion of MUS 204, MUS 224, MUS 226 and MUS 244, and MUS 258 for student's wishing to pursue the Music Technology concentration. In addition to performance classes, the degree requires no fewer than four semesters of advanced courses (300-level and above). All sequences begin in the Fall. Prospective majors must plan their programs so that they are prepared to begin major courses in a Fall semester at least three years before they plan to graduate to allow time in the senior year for advanced electives and the completion of a Senior Project.

All Music students at CSI begin in the Bachelor of Arts degree. During the second year as a declared music major, students must complete MUS 203, MUS 223, MUS 225, and MUS 243 and must earn a GPA of 2.7 in these Music courses, and must have a GPA of 2.5 overall in order to enter the BS degree program.

Applications for the B.S. in Music with a Music Technology concentration will be accepted during the student's second year as a declared music major. Eligibility for the B.S. with a Music Tech concentration will be determined based on special interview/audition. Students who wish to apply for this program must also submit a digital audio recording no more than 15 minutes in length of examples of the student's most recent work in the field of Music Technology.

Entry into the B.S. concentrations in Performance, Literature, and Theory (Classical or Jazz) requires application and a special audition, usually taken during the second year in the B.A. Auditions for entrance into the B.S. degree program are held in the Spring semester of the second year, usually in March.

To schedule an audition, please call the Department of Performing and Creative Arts at (718) 982-2520 at least three weeks prior to the audition date. In preparing for the audition, we suggest that you choose two contrasting selections that best demonstrate your technique and musicianship. These selections should be chosen from the standard classical repertoire and should represent different styles and periods. Memorization is recommended, but not required. Singers should prepare at least one work in a language other than English. All auditioners should also bring copies of the music to the audition to give to the accompanists that will be provided for you. All who audition should be able to read musical notation comfortably. For students who wish to pursue a concentration in Classical Performance, French or Italian is recommended.

In addition to ENG 111, ENG 151, COR 100, and PED 190, students must complete an ENH 200-level course in order to register for any music courses at the 300-level and above. Please refer to the section in the Undergraduate Catalog on general education requirements for approved course lists and complete details.

Requirements for the BS in Music (59-72 credits)

Pre-Major Requirements (0-5 credits)
MUS 120 Rudiments of Music 0-3 credits
(may be waived through examination)
MUS 125 Introduction to Music Theory 0-3 credits
(may be waived through examination)

Students who intend to declare the BA in Music should complete MUS 125 in the Spring semester before declaration of the major.

MUS 123 Piano I 0-1 credit
(may be waived through examination)
MUS 124 Piano II 0-1 credit
(may be waived through examination)

MUS 123 is only offered in the Spring semester.
A minimum grade of B- must be earned in all required pre-major courses in order to advance to core Music courses at the 200-level.

Major Requirements for the BS in Music (59-67 credits)

Students must earn a grade of B in MUS 125 and make progress toward completing the piano proficiency requirement before registering for the Music major sequence, which begins in the second year. The standard sequence of courses is MUS 203, MUS 223, MUS 225, and MUS 243, taken in the Fall semester, and MUS 204, MUS 224, MUS 226 and MUS 244, taken in the Spring semester. Music majors should request an advisor from the full-time Music faculty. Each student chooses one area of concentration beyond the core course requirements. Concentrations are available in classical Performance, Theory and Literature; Music Technology, and Jazz Studies and Performance.

Students in the BS program (Concentration in Classical Performance, Theory and Literature, Music Technology, and Jazz Studies and Performance) must earn a B- or higher in all Music courses in order to advance to the next core course in the sequence of required courses. Retention in the major requires a 2.7 GPA in core Music courses and a 2.5 GPA overall. Exceptionally, students who receive grades lower than a B- in Music courses.
may be given permission to continue in the sequence if recommended by both the instructor and full-time music faculty.

Core courses (48-52 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 180</td>
<td>Performance Workshop I</td>
<td>1</td>
</tr>
<tr>
<td>MUS 181</td>
<td>First-Semester Private Lessons</td>
<td>1</td>
</tr>
<tr>
<td>MUS 190</td>
<td>Performance Workshop II</td>
<td>1</td>
</tr>
<tr>
<td>MUS 191</td>
<td>Second-Semester Private Lessons</td>
<td>1</td>
</tr>
<tr>
<td>MUS 203</td>
<td>Music History I: History of Jazz</td>
<td>3</td>
</tr>
<tr>
<td>MUS 204</td>
<td>Music History II: History of Western Music from Antiquity to 1750</td>
<td>3</td>
</tr>
<tr>
<td>MUS 223</td>
<td>Keyboard Musicianship I</td>
<td>1</td>
</tr>
<tr>
<td>MUS 224</td>
<td>Keyboard Musicianship II</td>
<td>1</td>
</tr>
<tr>
<td>MUS 225</td>
<td>Music Theory I</td>
<td>3</td>
</tr>
<tr>
<td>MUS 226</td>
<td>Music Theory II</td>
<td>3</td>
</tr>
<tr>
<td>MUS 243</td>
<td>Musicianship I</td>
<td>1</td>
</tr>
<tr>
<td>MUS 244</td>
<td>Musicianship II</td>
<td>1</td>
</tr>
<tr>
<td>MUS 280</td>
<td>Performance Workshop III</td>
<td>1</td>
</tr>
<tr>
<td>MUS 281</td>
<td>Third-Semester Private Lessons</td>
<td>1</td>
</tr>
<tr>
<td>MUS 290</td>
<td>Performance Workshop IV</td>
<td>1</td>
</tr>
<tr>
<td>MUS 291</td>
<td>Fourth-Semester Private Lessons</td>
<td>1</td>
</tr>
<tr>
<td>MUS 303</td>
<td>Music History III: Western Music From 1750-1900</td>
<td>3</td>
</tr>
<tr>
<td>MUS 304</td>
<td>Music History IV: Western Music From 1900-Present</td>
<td>3</td>
</tr>
<tr>
<td>MUS 322</td>
<td>Counterpoint</td>
<td>3</td>
</tr>
<tr>
<td>MUS 323</td>
<td>Keyboard Musicianship III</td>
<td>1</td>
</tr>
<tr>
<td>MUS 325</td>
<td>Keyboard Musicianship IV</td>
<td>1</td>
</tr>
<tr>
<td>MUS 326</td>
<td>Instrumentation and Scoring</td>
<td>2</td>
</tr>
<tr>
<td>MUS 363</td>
<td>Musicianship III</td>
<td>1</td>
</tr>
<tr>
<td>MUS 364</td>
<td>Musicianship IV</td>
<td>1</td>
</tr>
<tr>
<td>MUS 424</td>
<td>Score Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MUS 431</td>
<td>Conducting</td>
<td>2</td>
</tr>
</tbody>
</table>

Ensemble Requirement (4 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 115</td>
<td>Ensemble I</td>
<td>1</td>
</tr>
<tr>
<td>MUS 116</td>
<td>Ensemble II</td>
<td>1</td>
</tr>
<tr>
<td>MUS 130</td>
<td>Guitar Ensemble I</td>
<td>1</td>
</tr>
<tr>
<td>MUS 131</td>
<td>Guitar Ensemble II</td>
<td>1</td>
</tr>
<tr>
<td>MUS 144*</td>
<td>Jazz Ensemble I</td>
<td>1</td>
</tr>
<tr>
<td>MUS 145*</td>
<td>Jazz Ensemble II</td>
<td>1</td>
</tr>
<tr>
<td>MUS 150</td>
<td>Chorus I</td>
<td>1</td>
</tr>
<tr>
<td>MUS 151</td>
<td>Chorus II</td>
<td>1</td>
</tr>
<tr>
<td>MUS 164</td>
<td>Orchestra I</td>
<td>1</td>
</tr>
<tr>
<td>MUS 165</td>
<td>Orchestra II</td>
<td>1</td>
</tr>
<tr>
<td>MUS 215</td>
<td>Ensemble III</td>
<td>1</td>
</tr>
<tr>
<td>MUS 216</td>
<td>Ensemble IV</td>
<td>1</td>
</tr>
<tr>
<td>MUS 233</td>
<td>Guitar Ensemble III</td>
<td>1</td>
</tr>
<tr>
<td>MUS 234</td>
<td>Guitar Ensemble IV</td>
<td>1</td>
</tr>
<tr>
<td>MUS 246</td>
<td>Jazz Ensemble III</td>
<td>1</td>
</tr>
<tr>
<td>MUS 247</td>
<td>Jazz Ensemble IV</td>
<td>1</td>
</tr>
<tr>
<td>MUS 249**</td>
<td>Jazz Combo</td>
<td>1</td>
</tr>
<tr>
<td>MUS 250</td>
<td>Chorus III</td>
<td>1</td>
</tr>
<tr>
<td>MUS 251</td>
<td>Chorus IV</td>
<td>1</td>
</tr>
<tr>
<td>MUS 264</td>
<td>Orchestra III</td>
<td>1</td>
</tr>
<tr>
<td>MUS 265</td>
<td>Orchestra IV</td>
<td>1</td>
</tr>
<tr>
<td>MUS 349**</td>
<td>Jazz Repertoire Combo</td>
<td>1</td>
</tr>
</tbody>
</table>

**Students in the Concentration in Jazz Studies and Performance must take MUS 144, MUS 145, MUS 249, MUS 349 in order to satisfy the Ensemble requirement.

**MUS 249 and MUS 349 may be repeated in order to satisfy the Ensemble requirement.

Concentrations (13-15 credits)

A. Concentration in Classical Performance, Theory, and Literature (13-15 credits)

1. Advanced Music History Requirement (3 credits)
   One course from the following:
   - MUS 400 The Music of J. S. Bach 3 credits
   - MUS 402 Major Composer I 3 credits
   - MUS 403 Major Composer II 3 credits
   - MUS 450 History and Literature of the Symphony 3 credits
   - MUS 460 History and Literature of Chamber Music 3 credits
   - MUS 470 History and Literature of Opera 3 credits

2. Advanced Music Theory/Composition Requirement (2-3 credits)
   One course from the following:
   - MUS 242 Harmonic Practice in the Jazz Tradition 3 credits
   - MUS 258 Music Technology 3 credits
   - MUS 270 Composition I 2 credits
   - MUS 360 Twentieth-Century Directions 3 credits
   - MUS 362 Performance with Computer and Electronics 3 credits
   - MUS 365 Multitrack Recording 3 credits
   - MUS 366 Multitrack Mixing and Mastering 3 credits
   - MUS 373 Junior Project (Composition) 3 credits
   - MUS 383 Junior Project (Performance) 3 credits
   - MUS 393 Junior Project (Research) 3 credits

Choose two upper-level courses from the list below or from list 1, 2, or 3.

- MUS 301 Improvisation 3 credits
- MUS 338 Innovators in Jazz 3 credits
- MUS 361 Audio for Moving Images 3 credits
- MUS 362 Performance with Computer and Electronics 3 credits
- MUS 365 Multitrack Recording 3 credits
- MUS 366 Multitrack Mixing and Mastering 3 credits
- MUS 373 Junior Project (Composition) 3 credits
- MUS 383 Junior Project (Performance) 3 credits
- MUS 393 Junior Project (Research) 3 credits

B. Concentration in Music Technology Concentration (15 credits)

Five courses from the list below:

- MUS 258 Music Technology 3 credits
- MUS 365 Multitrack Recording 3 credits
- MUS 366 Multitrack Mixing and Mastering 3 credits
- MUS 361 Audio for Moving Images 3 credits
- MUS 362 Performance with Computer and Electronics 3 credits

Students may also choose one of the following to fulfill the 15-credit Music Technology requirements.

- MUS 473 Senior Project (Composition) 3 credits
- MUS 483 Senior Project (Performance) 3 credits

C. Concentration in Jazz Studies and Performance (11-14 credits)

1. Required courses
   - 8 credits

2. Electives (5-6 credits)
   - MUS 242 Harmonic Practice in the Jazz Tradition 3 credits
   - MUS 258 Music Technology 3 credits
   - MUS 270 Composition I 2 credits
   - MUS 360 Twentieth-Century Directions 3 credits
   - MUS 362 Performance with Computer and Electronics 3 credits
   - MUS 365 Multitrack Recording 3 credits
   - MUS 366 Multitrack Mixing and Mastering 3 credits
   - MUS 373 Junior Project (Composition) 3 credits
   - MUS 383 Junior Project (Performance) 3 credits
   - MUS 393 Junior Project (Research) 3 credits

Choose two upper-level courses from the list below or from list 1, 2, or 3.

- MUS 301 Improvisation 3 credits
- MUS 338 Innovators in Jazz 3 credits
- MUS 361 Audio for Moving Images 3 credits
- MUS 362 Performance with Computer and Electronics 3 credits
- MUS 365 Multitrack Recording 3 credits
- MUS 366 Multitrack Mixing and Mastering 3 credits
- MUS 373 Junior Project (Composition) 3 credits
- MUS 383 Junior Project (Performance) 3 credits
- MUS 393 Junior Project (Research) 3 credits
MUS 242 Harmonic Practice in the Jazz Tradition 3 credits
MUS 338 Innovators in Jazz 3 credits
MUS 340 Arranging for Jazz Ensemble 2 credits
2. Advanced Music Theory and/or Performance
   Once course from the following list: 3 credits
   MUS 339 Jazz Composition and Analysis 3 credits
   MUS 483 Senior Project (Performance) 3 credits
3. Electives: One course from the following list: 0-3 credits
   MUS 106 Jazz Performance Techniques 1 credit
   MUS 258 Introduction to Music Technology 3 credits
   MUS 301 Improvisation 3 credits
   MUS 339 Jazz Composition and Analysis 3 credits
   MUS 361 Audio for Moving Images 3 credits
   MUS 473 Senior Project (Composition) 3 credits
   MUS 483 Senior Project (Performance) 3 credits
   MUS 493 Senior Project (Research) 3 credits

Foreign Language Requirement: 0-4 credits
Demonstration of proficiency through the intermediate level, 213 or above.
For students who wish to pursue a concentration in Classical Performance, French or Italian is recommended.

Electives: 6-19 credits
Total Credits Required: 120

Private Instruction in Voice and Instrument
Four semesters of private instruction in voice or an instrument are required for the B.S. degree. Students who are pursuing a major in Music, who earn a 2.7 GPA in required pre-major or core Music courses, who earn a 2.5 GPA overall, and who are making appropriate progress toward fulfilling the degree requirements are eligible for enrollment in college-funded private instruction for credit. Admission into private instruction is determined by audition, which must take place prior to registration in MUS 181. In order to qualify for private lessons, students will be asked to perform major and minor scales and arpeggios, two prepared pieces, and will be asked to read a short musical composition at sight. In the BA, private lessons are elective.

Students enrolled in private lessons must maintain a 2.7 cumulative average in core music courses. For each semester of private lessons, the student must be enrolled in at least six credits of music classes and must be enrolled in an Ensemble. These courses (MUS 181, MUS 191, MUS 281, MUS 291, MUS 381, MUS 391, MUS 481, MUS 191) — which may not be repeated — are non-liberal arts and sciences courses and should be taken in sequence. Performance Workshop (MUS 180, MUS 190, MUS 280, MUS 290, MUS 380, MUS 390, MUS 480, MUS 490) is co-requisite with private lessons. Students who are enrolled in college-funded lessons must satisfy the following criteria in order to remain eligible on a semester-by-semester basis:
1. earn an average GPA of 2.7 in pre-major or core Music courses and a 2.5 GPA overall;
2. receive a grade of B in the juried examination that takes place at the end of each semester;
3. make satisfactory progress towards completing the B.S. in Music through
   a. full-time enrollment status at CSI (12 credits or more for each semester of lessons);  
   b. enrollment in 6 or more credits of Music courses in each semester of study;
4. be enrolled in an ensemble for each semester of enrollment in private lessons.

Enrollment in Chamber Music and Other Small Ensembles
The College funds enrollment in chamber music and other small ensembles for a limited number of qualified Music majors. Students who are pursuing a major in Music and who are making appropriate progress toward fulfilling the degree requirements are eligible for enrollment in College-funded private instruction for credit. Admission into small ensembles is determined by audition, which must take place prior to registration for MUS 115.

Students enrolled in private lessons must maintain a 2.7 cumulative average in academic music classes (theory, history, and musicianship). For each semester of private lessons, the student must be enrolled in at least six credits of music classes. (Some flexibility is possible for first- and last-semester students.) Students may receive credit for a maximum of eight semesters of private lessons. These courses (MUS 115, MUS 116, MUS 215, MUS 216) are non-liberal arts and sciences courses and should be taken in sequence. MUS 216 may be repeated for credit. Students who are enrolled in College-funded small ensembles must satisfy the following criteria in order to remain enrolled on a semester-by-semester basis:
1. rehearse with the ensemble at least six hours per week;
2. give a public performance, which serves as a final examination, at the end of each semester of enrollment;
3. maintain full-time enrollment status at CSI (12 credits or more for each semester of lessons); and
4. make satisfactory progress toward completing the Music degree.

Junior and Senior Project Courses
Courses numbered MUS 373, MUS 383, MUS 393, MUS 473, MUS 483, and MUS 493 are project courses. They are available to Music majors who wish to perform a full-length public recital, write a large-scale composition, or complete a research project in music theory or music history of significant scope and length. Students in the B.S. program (Concentration in Classical Performance, Theory, and Literature) must complete either MUS 473, MUS 483, or MUS 493 as a capstone course. A full-time music faculty member and/or applied music instructor must supervise any of these endeavors. Students who wish to enroll for Project Courses in Performance must fulfill the following requirements:
1. be enrolled in private lessons with a CSI applied music professor for no fewer than two consecutive se-
mesters prior to registering for a junior or senior recital;
2. earn a grade of B+ or higher every semester before enrollment in junior or senior recital;
3. at the end of the semester before the recital, perform before a jury of Music faculty members a 20-minute audition of music in diverse styles representative of the repertoire to be performed on the recital.

At the request of the student, when the grade point average warrants the appellation, these courses may be designated as Junior Honors Project or Senior Honors Project. Juniors who hope to enroll in either MUS 373 or MUS 383 or MUS 393 must have completed at least 25 credits of the general education requirement, including ENG 151, COR 100, and PED 190.

**Honors**
To graduate with Honors in Music, a student must have a 3.5 grade point average in music courses and must complete an honors thesis in composition or performance under the supervision of a full-time faculty member.

**Liberal Arts and Sciences Requirement**
For the BA in Music, at least 90 credits must be in liberal arts and sciences courses. For the BS in Music, at least 60 credits must be in liberal arts and sciences courses. Music performance courses are non-liberal arts and sciences courses.

**Music Minor**

**Music Minor**

Pre-Major Requirements: 3-4 credits
MUS 125 Introduction to Music Theory 3 credits
Students who intend to minor in Music should complete MUS 125 in the spring semester of their first year at CSI.

MUS 123 Piano I 0-1 credit

Minor Requirements: 18 credits
At least 18 credits of music courses must be completed for the minor. The following core courses are required for the minor:

**Music Theory and Musicianship (5 credits)**
MUS 223 Keyboard Musicianship I 1 credit
MUS 225 Music Theory I 3 credits
MUS 243 Musicianship 1 credit

Music History: one course from the following list:
MUS 203 Music History I - History of Jazz 3 credits
MUS 204 Music History II - History of Western Music from Antiquity to 1750 3 credits
MUS 303 Music History III - History of Western Music from 1750 to 1900 3 credits
MUS 304 Music History IV - Western Music from 1900-Present 3 credits
An additional 9-10 credits are to be determined in consultation with a Music faculty Advisor.

A maximum of 2 credits of Ensemble courses at the 100 level (MUS 106, MUS 115, MUS 116, MUS 130, MUS 131, MUS 144, MUS 145, MUS 150, MUS 151, MUS 164, MUS 165) may count towards fulfillment of the minor requirements. MUS 105, MUS 108, and MUS 110 do not count towards fulfillment of the minor requirements. For Music majors switching to the minor: private lessons (MUS 181, MUS 191, etc.) and Performance Workshops (MUS 180, MUS 190, etc.) do not count towards completion of the minor requirements.

**Music Courses**

**MUS 105 World Music**
3 hours; 3 credits
An introduction to ethnomusicology geared to students with no musical training. A study of music as a world phenomenon, with emphasis on its relationship to indigenous societal and cultural values and customs, function, and significance. The course will aid students in understanding how different instruments and sounds are integral to all humanity, and will guide students toward becoming better critical and analytical musical listeners and interpreters. (arts & com.) (FCER) (TALA)

**MUS 106 Jazz Performance Techniques**
1 hour; 1 credit
A workshop setting with the goal of increasing their skills in the jazz idiom. Emphasis will be on basic musicianship techniques including sight reading and phrasing, as well as melodic interpretation, approaches to improvisation, and a basic understanding of song forms associated with jazz performance. Depending on the individual student, the course can be assigned as a prerequisite to or in conjunction with the CSI jazz ensemble.
Prerequisite: MUS 125

**MUS 108 Introduction to Jazz History**
3 hours; 3 credits
A survey of music in the jazz perspective from Scott Joplin to the present, including the social impact of the music on American and European cultures. (arts & com.) (FCER) (TALA)

**MUS 110 Introduction to Music History**
3 hours; 3 credits
A study of the evolution of musical style through representative works from every era of the Western musical tradition. Assigned readings, listening, and concerts. (arts & com.) (FCER) (TALA)

**MUS 115 Ensemble I**
2 hours; 1 credit
Small ensembles such as instrumental or vocal chamber music groups or small jazz ensembles will be formed based on personnel and repertoire available, and performance ability. Groups will rehearse and receive coaching on a weekly basis, with the goal of public performance.
Prerequisites or corequisites: MUS 120 or MUS 125

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<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 116</td>
<td>Ensemble II</td>
<td>2</td>
<td>Small ensembles such as instrumental or vocal chamber music groups or small jazz ensembles will be formed based on personnel and repertoire available, and performance ability. Groups will rehearse and receive coaching on a weekly basis with the goal of public performance. Prerequisite or corequisites: MUS 115 and permission of a full-time Music faculty member</td>
</tr>
<tr>
<td>MUS 120</td>
<td>Rudiments of Music</td>
<td>4</td>
<td>Introduction to music reading and notation; performing of rhythmic exercises; structure of scales, intervals, and triads; musical terms; introduction to the keyboard. (arts &amp; com.) (TALA) Note: This course satisfies the College Option.</td>
</tr>
<tr>
<td>MUS 123</td>
<td>Piano I</td>
<td>2</td>
<td>Basic piano technique; playing simple pieces. Prerequisite: the ability to read music</td>
</tr>
<tr>
<td>MUS 124</td>
<td>Piano II</td>
<td>2</td>
<td>Continuation of MUS 123. Prerequisite: MUS 123</td>
</tr>
<tr>
<td>MUS 125</td>
<td>Introduction to Music Theory</td>
<td>2</td>
<td>2 class hours; 2 laboratory hours; 3 credits For students with prior knowledge of the rudiments of music (meters, major and minor scales, key signatures, intervals). Review of the rudiments of music, introduction to chord construction and diatonic harmony; introduction to composition; introduction to sight-singing and ear-training; introduction to music technology. This course is a pre-major requirement for students intending to major or minor in Music (arts &amp; com.) (TALA) Prerequisite: MUS 120 Pre or corequisite: For Music pre-majors or majors, MUS 123</td>
</tr>
<tr>
<td>MUS 130</td>
<td>Guitar Ensemble I</td>
<td>2</td>
<td>An ensemble of guitarists and other instrumentalists who will perform works in the classical and popular idioms. Several public performances will be given. Prerequisites: Audition and permission of the instructor or full-time Music faculty member</td>
</tr>
<tr>
<td>MUS 131</td>
<td>Guitar Ensemble II</td>
<td>2</td>
<td>Continuation of MUS 130. Prerequisite: MUS 130</td>
</tr>
<tr>
<td>MUS 144</td>
<td>Jazz Ensemble I</td>
<td>2</td>
<td>An ensemble consisting of a balanced group of selected instrumentalists who perform works in the jazz idiom. Several public performances will be given. Prerequisite: Audition and permission of instructor or full-time Music faculty member</td>
</tr>
<tr>
<td>MUS 145</td>
<td>Jazz Ensemble II</td>
<td>2</td>
<td>Continuation of MUS 144. Prerequisite: MUS 144</td>
</tr>
<tr>
<td>MUS 150</td>
<td>Chorus I</td>
<td>2</td>
<td>2 hours; 1 credit A mixed chorus of soprano, alto, tenor, and bass (SATB) that sings both classical and popular works. The group presents a public performance at the end of the semester. NOTE: This course has a material fee. Prerequisites: MUS 120 or MUS 125 or the ability to read music and audition</td>
</tr>
<tr>
<td>MUS 151</td>
<td>Chorus II</td>
<td>2</td>
<td>Continuation of MUS 150. NOTE: This course has a material fee. Prerequisite: MUS 150 or permission of the instructor or full-time Music Faculty Member</td>
</tr>
<tr>
<td>MUS 164</td>
<td>Orchestra I</td>
<td>2</td>
<td>Rehearsal and performance of orchestral literature from all periods. May be taken at another CUNY campus. Prerequisites or corequisites: MUS 120 or MUS 125 and audition and permission of the instructor or full-time Music faculty member</td>
</tr>
<tr>
<td>MUS 165</td>
<td>Orchestra II</td>
<td>2</td>
<td>Continuation of MUS 164. Rehearsal and performance of orchestral literature from all periods. Prerequisites: MUS 164 and permission of instructor</td>
</tr>
<tr>
<td>MUS 180</td>
<td>Performance Workshop I</td>
<td>1</td>
<td>1 hour; 1 credit Music students will meet once a week to perform before each other and Music faculty in a supportive environment. Discussion of stage deportment, performance anxiety, issues of style, and other topics with the goal of developing readiness for public performance. Performance calendar will be arranged in consultation with the student's private teacher and the program coordinator. Prerequisites: ENG 111; COR 100; PED 190; audition; MUS 120 or MUS 125 and MUS 123 and permission of a full-time Music faculty member Corequisite: MUS 181</td>
</tr>
<tr>
<td>MUS 181</td>
<td>First-Semester Private Lessons</td>
<td>1</td>
<td>1 hour; 1 credit Weekly instruction that helps the student to develop the technical and musical skills necessary to perform as a singer or instrumentalist. The student will be assigned standard repertoire for the voice/instrument according to ability, with the goal of public performance. Pre or corequisites: ENG 111; COR 100; PED 190; MUS 120 or MUS 125 and MUS 123 and an audition and permission of a full-time Music faculty member Corequisite: MUS 180</td>
</tr>
<tr>
<td>MUS 190</td>
<td>Performance Workshop II</td>
<td>1</td>
<td>1 hour; 1 credit</td>
</tr>
</tbody>
</table>
Music students will meet once a week to perform before each other and Music faculty in a supportive environment. Discussion of stage deportment, performance anxiety, issues of style, and other topics with the goal of developing readiness for public performance. Performance calendar will be arranged in consultation with the student’s private teacher and the program coordinator.

Prerequisites: MUS 180 and MUS 181 and permission of a full-time Music faculty member
Corequisite: MUS 191

MUS 191  Second-Semester Private Lessons
1 hour; 1 credit
Weekly instruction that helps the student to develop the technical and musical skills necessary to perform as a singer or instrumentalist. The student will be assigned standard repertoire for the voice/instrument according to ability, with the goal of public performance.
Prerequisites: Permission of a full-time Music faculty member and MUS 181
Corequisite: MUS 190

MUS 203  Music History I: History of Jazz
3 hours; 3 credits
A survey of Jazz from its origins to the present, through a study of representative composers, performers, and musical works from each era of stylistic development. Special consideration will be given to the lives and contributions of people of color. (p&d) (TALA) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111, COR 100, PED 190; for Music majors and minors, a grade of B- or higher in MUS 123 and MUS 125
Corequisites: MUS 223, MUS 225, MUS 243
Pre- or corequisite: ENG 151

MUS 204  Music History II - History of Western Music from Antiquity to 1750
4 hours; 3 credits
A survey of the history of musical style and materials from antiquity through the Baroque era and the music of J. S. Bach and Handel; a study of representative works from each era of stylistic development and the cultural forces that influenced composition and performance practice. Introduction to music research methods and the techniques of writing about music.
Prerequisites: ENG 151; MUS 203 and MUS 223 and MUS 225 and MUS 243
Corequisites: MUS 224 and MUS 226 and MUS 244

MUS 215  Ensemble III
2 hours; 1 credit
Small ensembles such as instrumental or vocal chamber music groups or small jazz ensembles will be formed based on personnel and repertoire available, and performance ability. Groups will rehearse and receive coaching on a weekly basis with the goal of public performance.
Prerequisites: MUS 116 and permission of a full-time Music faculty member

MUS 216  Ensemble IV
2 hours; 1 credit
Small ensembles such as instrumental or vocal chamber music groups or small jazz ensembles will be formed based on personnel and repertoire available, and performance ability. Groups will rehearse and receive coaching on a weekly basis with the goal of public performance.
Prerequisites: MUS 215 and permission of a full-time Music faculty member

MUS 223  Keyboard Musicianship I
1 hour; 1 credit
For Music majors. Chord progressions, constructing a piano arrangement from lead sheet notation and from Roman numerals. Simple song harmonizations and transpositions.
Prerequisites: ENG 111; COR 100; PED 190; for Music majors and minors, a grade of B- or higher in MUS 125 and MUS 123 or waiver by a full-time Music faculty member
Co-requisites: MUS 203 and MUS 225 and MUS 243
Pre- or corequisite: ENG 151

MUS 224  Keyboard Musicianship II
1 hour; 1 credit
Continuation of MUS 223, including simple figured bass realizations at the keyboard; textural figuration patterns such as Alberti bass, waltz, and march accompaniments; chromatic chord progressions, and cadence patterns.
Prerequisites: MUS 203 and MUS 223 and MUS 225 and MUS 243; and an ENH 200-level course
Co-requisites: MUS 204 and MUS 226 and MUS 244

MUS 225  Music Theory I
3 hours; 3 credits
A study of the functional relationships among scale degrees, chords, scales, and keys that create tonality. Construction of triads and seventh chords, root function and diatonic chord progressions, four-part diatonic harmony, advanced notation. Introduction to harmonic analysis using lead sheet notation and Roman numerals. Cadences, phrase structure, and an introduction to formal analysis. Figured bass notation.
Prerequisites: ENG 111, COR 100, PED 190; for Music majors and minors, a grade of B- or higher in MUS 123 and MUS 125
Corequisites: MUS 203 and MUS 223 and MUS 243
Pre or corequisite: ENG 151

MUS 226  Music Theory II
3 hours; 3 credits
A continuation of MUS 225, with an emphasis on chromatic harmony and modulation. Construction of secondary dominant- and diminished-seventh chords, advanced root function and chord progressions, advanced harmonic dictation, four-part chromatic harmony, advanced notation. Advanced harmonic and formal analysis.
Prerequisites: MUS 203 and MUS 223 and MUS 225 and MUS 243, and an ENH 200-level course
Co-requisites: MUS 204 and MUS 224 and MUS 244

MUS 232  Classic Guitar I
2 hours; 1 credit
Beginning students will learn the fundamentals of classic guitar playing (School of Tarrega) through the study of technique; scales, chords, etudes, simple pieces, and sightreading.

Prerequisites: MUS 120 or equivalent, and permission of the instructor

**MUS 233  Guitar Ensemble III**
2 hours; 1 credit
Continuation of MUS 131.
Prerequisite: MUS 131

**MUS 234  Guitar Ensemble IV**
2 hours; 1 credit
Continuation of MUS 233. May be repeated for credit.
Prerequisite: MUS 233

**MUS 236  Music in American Life**
(Also AMS 236)
4 hours; 4 credits
The music making and listening habits of the American people, examining the musical activities, the musicians, and the social setting. The course focuses on the history and significance of rock as an American and international phenomenon, exploring issues of gender, race, and the multicultural musical traditions that have enriched American popular music. This course develops the ability to understand music as an expression of cultural values, and does not require instrumental training or the ability to read music. This course does not meet requirements for the major or the minor in Music. (arts & com.) (TALA)
Note:This course satisfies the College Option.
Prerequisite: ENG 111

**MUS 237  American Musical Theater**
(Also AMS 237)
3 hours; 3 credits
A survey of U.S. musical theater and its development from the second half of the 19th century to our own times, considered in the context of a changing United States. Sousa, Herbert, Friml, Cohan, Kern, Gershwin, Bernstein, Arlen, Weill, Thomson, and Copland are some of the composers whose works will be covered. (arts and com.)
((TALA) Note: This course satisfies the College Option. Prerequisites: ENG 111; for Music majors, MUS 120

**MUS 242  Harmonic Practice in the Jazz Tradition**
3 hours; 3 credits
A practical study of the basic principles and applications of chord harmony in the jazz idiom. Topics include chord types, extensions, voicings, progressions and form (blues form, for example), and substitutions, using the Be-Bop era as a common practice period and progressing to later style trends. The primary emphasis will be on composition, but the course will also include study of scales and modes relating to improvisation. Compositions of seminal jazz musicians will be used as prototypes for written analysis and other assignments. The course also includes studies in keyboard harmony, harmonic and melodic ear-training, and basic arranging skill.
Prerequisites: MUS 203 and MUS 204 and MUS 224 and MUS 226 and MUS 244; and an ENH 200-level course

**MUS 243  Musicianship I**
2 hours; 1 credit
Techniques in the expressive performance of rhythm, pitch, dynamics, and timbre. Recognition and writing of musical elements through rhythmic and melodic dictation exercises. Improved reading and interpretation of musical notation through sight-singing exercises.
Prerequisite: ENG 111, COR 100; PED 190; for Music majors and minors, a grade of B- or higher in MUS 125 and MUS 123 or waiver by a full-time Music faculty member
Co-requisites: MUS 203 and MUS 223 and MUS 225
Pre- or corequisite: ENG 151

**MUS 244  Musicianship II**
2 hours; 1 credit
Continuation of MUS 243.
Prerequisites: MUS 203 and MUS 223 and MUS 225 and MUS 243; and an ENH 200-level course
Co-requisites: MUS 204 and MUS 224 and MUS 226

**MUS 246  Jazz Ensemble III**
2 hours; 1 credit
Continuation of MUS 145.
Prerequisite: MUS 145

**MUS 247  Jazz Ensemble IV**
2 hours; 1 credit
Continuation of MUS 246. May be repeated for credit.
Prerequisite: MUS 246

**MUS 249  Jazz Combo**
2 hours; 1 credit
A small group performance setting to further develop musicianship in the jazz idiom. Emphasis will be on the performance of standard jazz literature culminating with a public performance of memorized material. The combo size can range from 3 to 7 musicians. This course may be repeated for credit.
Prerequisites: MUS 145

**MUS 250  Chorus III**
2 hours; 1 credit
Continuation of MUS 151. NOTE: This course has a material fee.
Prerequisite: MUS 151

**MUS 251  Chorus IV**
2 hours; 1 credit
Continuation of MUS 250. May be repeated for credit.
NOTE: This course has a material fee.
Prerequisite: MUS 250

**MUS 252  Musical Performance I**
3 hours; 1 credit each
Study and performance of representative literature from all periods of music history, involving instrumental as well as vocal ensembles. May be taken without credit.
Prerequisites: MUS 252, permission of the instructor

**MUS 253  Musical Performance II**
3 hours; 1 credit each
Study and performance of representative literature from all periods of music history, involving instrumental as well as vocal ensembles. May be taken without credit.

Prerequisites: MUS 252 or permission of the instructor

MUS 258 Music Technology
3 hours; 3 credits
A survey of hardware and software resources in the electronic music lab. Development of music notation skills using Desktop Music Notation; introduction to basic Audio and MIDI studio techniques; history of the electronic music medium.

Prerequisites: MUS 203 and MUS 223 and MUS 225 and MUS 243
Co-requisites: MUS 204 and MUS 224 and MUS 226 and MUS 244

MUS 264 Orchestra III
2 hours; 1 credit
Continuation of MUS 165. Rehearsal and performance of orchestral literature from all periods.

Prerequisites: MUS 165 and permission of instructor

MUS 265 Orchestra IV
2 hours; 1 credit
Continuation of MUS 264. Rehearsal and performance of orchestral literature from all periods. May be repeated for credit.

Prerequisites: MUS 264 and permission of instructor

MUS 270 Composition I
2 hours; 2 credits
Composition of original music in a seminar setting. Extensive writing and listening assignments. Study of contemporary music literature in a variety of styles. Aspects of orchestration and arranging.

Prerequisites: Junior standing; MUS 203 and MUS 204 and an ENH 200-level course

Co-requisites: MUS 303 and MUS 322 and MUS 323 and MUS 363

MUS 280 Performance Workshop III
1 hour; 1 credit
Music students will meet once a week to perform before each other and Music faculty in a supportive environment. Discussion of stage deportment, performance anxiety, issues of style, and other topics with the goal of developing readiness for public performance. Performance calendar will be arranged in consultation with the student’s private teacher and the program coordinator.

Prerequisites: MUS 190 and MUS 191 and permission of a full-time Music faculty member

Corequisite: MUS 281

MUS 281 Third-Semester Private Lessons
1 hour; 1 credit
Weekly instruction that helps the student to develop the technical and musical skills necessary to perform as a singer or instrumentalist. The student will be assigned standard repertoire for the voice/instrument according to ability, with the goal of public performance.

Prerequisites: Permission of a full-time Music faculty member and MUS 191

Corequisite: MUS 280

MUS 290 Performance Workshop IV
1 hour; 1 credit
Music students will meet once a week to perform before each other and Music faculty in a supportive environment. Discussion of stage deportment, performance anxiety, issues of style, and other topics with the goal of developing readiness for public performance. Performance calendar will be arranged in consultation with the student’s private teacher and the program coordinator.

Prerequisites: MUS 280 and MUS 281 and permission of a full-time Music faculty member

Corequisite: MUS 291

MUS 291 Fourth-Semester Private Lessons
1 hour; 1 credit
Weekly instruction that helps the student to develop the technical and musical skills necessary to perform as a singer or instrumentalist. The student will be assigned standard repertoire for the voice/instrument according to ability, with the goal of public performance.

Prerequisites: Permission of a full-time Music faculty member and MUS 281

Corequisite: MUS 290

MUS 301 Improvisation
2 hours; 2 credits
An introduction to the methods of instrumental and vocal improvisation through rhythmic, melodic, and harmonic etudes that develop the ability to craft well-formed musical statements spontaneously. Both jazz and non-jazz idioms will be explored, through the application of techniques learned in music theory and musicianship courses.

Prerequisites: Junior standing; MUS 203 and MUS 204, and an ENH 200-level course

Prerequisites or corequisites: MUS 303 and MUS 322 and MUS 323 and MUS 363

MUS 303 Music History III: Western Music from 1750 to 1900
4 hours; 3 credits
A survey of the history of musical style and materials from the Classical Era to the present; a study of representative works from each era of stylistic development and the cultural forces that influenced composition and performance practice. Introduction to the forms and genres of common practice music. Introduction to music research methods and the techniques of writing about music.

Prerequisites: An ENH 200-level course; MUS 204 and MUS 224 and MUS 226 and MUS 244

Corequisites: MUS 322 and MUS 323 and MUS 363

MUS 304 Music History IV: Western Art Music from 1900-Present
3 hours; 3 credits
A survey of Western art music in Europe and the Americas from the last decade of the nineteenth century through the current day. Students will study the history of modernist and post-modernist music and its evolution through time, as well as the cultural and political events that helped shape and were shaped by this music. Discussions will include the development of various musical styles and compositional procedures of the 20th and 21st
centuries. Students will gain familiarity with composers whose works epitomize and were key to the development of modernist music. The course will examine the roles that nationalism, world politics, gender, and race played in the shaping and evolution of the Western art-music canon.

Prerequisites: MUS 303 and MUS 322 and MUS 323 and MUS 363 and an ENH 200-level class

MUS 322 Counterpoint
3 hours; 3 credits
Introduction to polyphonic composition and the analysis of the two and three part linear textures in music from 1600 to the present. A study of melodic construction using modal and tonal materials. The application of ear-training techniques to contrapuntal etudes in one, two, and three parts.

Prerequisites: MUS 224, MUS 226, MUS 244, MUS 203, MUS 204 and an ENH 200-level course
Corequisites: MUS 303, MUS 323, MUS 363

MUS 323 Keyboard Musicianship III
1 hour; 1 credit
Continuation of MUS 224.
Prerequisites: MUS 224 and MUS 226 and MUS 244; MUS 303; and an ENH 200-level course
Corequisites: MUS 303 and MUS 322 and MUS 363

MUS 325 Keyboard Musicianship IV
1 hour; 1 credit
Continuation of MUS 323.
Prerequisites: MUS 322 and MUS 323 and MUS 363 and MUS 303
Corequisites: MUS 304 and MUS 424 and MUS 364

MUS 326 Instrumentation and Scoring
2 hours; 2 credits
The study of woodwinds, brass, strings, and percussion; ranges and voicing; score analysis and notation; articulation and phrasing.
Prerequisites: Junior Standing, MUS 224, MUS 226, MUS 244, MUS 204 and an ENH 200-level course
Corequisites: MUS 303, MUS 322, MUS 363

MUS 332 Classical Guitar II
2 hours; 1 credit
Study of Segovia major and minor scales through four sharps and one flat; Roch transcriptions, Tarrega preludes, and studies by Sor, Aguado, Carcassi, and others. Ensemble performance of transcriptions of Renaissance and Baroque compositions.
Prerequisites: MUS 232 with a grade of C or better, or equivalent, and permission of the instructor

MUS 338 Innovators in Jazz
3 hours; 3 credits
Analysis of style and form of major figures in jazz history.
Prerequisites: MUS 224 and MUS 226 and MUS 244 and MUS 204 and an ENH 200-level course
Pre or corequisites: MUS 303 and MUS 322 and MUS 323 and MUS 363

MUS 339 Jazz Composition and Analysis
3 hours; 3 credits
Continued study of more advanced jazz harmony, arranging, and even improvisational techniques with the goal (and requirement) of having original student compositions performed by student or student/faculty ensembles.
Prerequisites: MUS 203, MUS 242, MUS 338, MUS 340

MUS 340 Arranging for Jazz Ensemble
2 hours; 2 credits
A practical study of voicing techniques in the jazz idiom. Ranges, transpositions, and characteristics of instruments associated with jazz performance. Students will be expected to orchestrate for ensembles ranging from combo to big band.
Prerequisites: Junior Standing, MUS 203, MUS 204, MUS 242, and an ENH 200-level course
Pre or corequisites: MUS 303, MUS 322, MUS 323, MUS 326, MUS 363

MUS 349 Jazz Repertoire Combo
2 hours; 1 credit
Small group jazz (3-7 musicians) at an advanced level. This entails eventual performance(s) of memorized material which will challenge the student, either from intricate arrangements, advanced improvisational style, particular jazz vernacular, and/or a combination of all. Semester's work will also include the study of compositions by one (or a few) particular composer(s). This course may be repeated for credit.
Prerequisites: MUS 249 or Audition

MUS 352 Musical Performance III
3 hours; 1 credit
See description for MUS 252.
Prerequisite: MUS 253 or permission of the instructor

MUS 353 Musical Performance IV
3 hours; 1 credit
See description for MUS 252. May be repeated for credit.
Prerequisite: MUS 352 or permission of the instructor

MUS 360 Twentieth-Century Directions
3 hours; 3 credits
Prerequisites: Junior Standing, MUS 204 and MUS 224 and MUS 226 and MUS 244; and an ENH 200-level course
Pre- or corequisites: MUS 303 and MUS 322 and MUS 323 and MUS 363

MUS 361 Audio for Moving Images
3 hours; 3 credits
This course covers the techniques and methodology of creating music to accompany moving visual images. The beginning of the class deals with the aesthetics, terminolgy, and technical aspects of creating the sound. The student will subsequently apply these skills towards the creation of a recorded score for a short film or video.
Prerequisites: Junior Standing, MUS 204, MUS 223, MUS 225, MUS 243, MUS 258
Pre- or corequisites: MUS 303, MUS 322, MUS 323, MUS 363
MUS 362 Performance with Computer and Electronics
3 hours; 3 credits
The course will examine various works from the last 100 years, which involve some kind of electronic interaction with or complement to a live musical performance. It will begin with the early pieces which make use of noise, progressing on to live electronics, and subsequently arriving at today's real time interaction between computer and performer. Ultimately the class will involve the creation of short live performance compositions/improvisations utilizing the computer and the software MAX/MSP.
Prerequisites: Junior Standing, MUS 204, MUS 223, MUS 225, MUS 243, MUS 258
Pre- or corequisites: MUS 303, MUS 322, MUS 323, MUS 363

MUS 363 Musicianship III
2 hours; 1 credit
Continuation of MUS 244.
Prerequisites: MUS 204 and MUS 224 and MUS 226 and MUS 244; and an ENH 200-level course
Corequisites: MUS 303 and MUS 322 and MUS 323

MUS 364 Musicianship IV
2 hours; 1 credit
Continuation of MUS 363.
Prerequisites: MUS 204 and MUS 224 and MUS 226 and MUS 244 and an ENH 200-level course
Co-requisites: MUS 304 and MUS 325

MUS 365 Multitrack Recording
3 hours; 3 credits
This course covers the technique and methodology of live sound recording. It includes the study of microphones, microphone placement, mixing consoles, signal processing, an introduction to multiple-track recording software, and the basic editing and studio procedures found in today's recording studio.
Prerequisites: Junior standing; completion of ENG 151, COR 100, PED 190, and ENH 200-level course; MUS 258

MUS 366 Multitrack Mixing and Mastering
3 hours; 3 credits
An introduction to the techniques and methodology of studio sound recording with an emphasis on Mixing and Mastering. Specifically, the course will concentrate on the post-recording and post-production of multi-track-recorded material, in preparation for, and including, the final mix down into CD stereo. The class also includes a study of audio, mixing consoles, mastering techniques, monitors, digital audio software, editing techniques, and related plug-ins.
Prerequisites: Junior Standing, MUS 204, MUS 223, MUS 225, MUS 243, MUS 258
Pre- or corequisites: MUS 322, MUS 323, MUS 303, MUS 363

MUS 370 Composition II
2 hours; 2 credits
Composition of original music in a seminar setting. Extensive writing and listening assignments. Study of contemporary music literature in a variety of styles. Aspects of orchestration and arranging.
Prerequisite: Junior standing; MUS 203 and MUS 204 and an ENH 200-level course
Pre or corequisite: MUS 303 and MUS 322 and MUS 323 and MUS 363

MUS 373 Junior Project (Composition)
1 hour; 3 credits
An independent study project for upperclass composition students. The final composition or compositions may be written either for acoustic instruments/voice or for electronic-music media.
Prerequisites: Junior standing, completion of an ENH 200-level course; MUS 258 or MUS 270; permission of a full-time Music faculty member
Corequisite: MUS 381 or MUS 383

MUS 380 Performance Workshop V
1 hour; 1 credit
Music students will meet once a week to perform before each other and Music faculty in a supportive environment. Discussion of stage deportment, performance anxiety, issues of style, and other topics with the goal of developing readiness for public performance. Performance calendar will be arranged in consultation with the student’s private teacher and the program coordinator.
Prerequisites: Junior standing: completion of ENG 151, COR 100, PED 190, and an ENH 200-level course; MUS 290, and MUS 291, and permission of a full-time Music faculty member
Corequisite: MUS 381 or MUS 383

MUS 381 Fifth-Semester Private Lessons
1 hour; 1 credit
Prerequisites: Junior standing: completion of ENG 151, COR 100, PED 190, and an ENH 200-level course; MUS 290, and MUS 291, and permission of a full-time Music faculty member
Corequisite: MUS 380

MUS 383 Junior Project (Performance)
1 hour; 3 credits
Open to Music Majors who wish to perform a full-length public recital of significant scope and length. A full-time music faculty member and/or applied music instructor must supervise any of these endeavors. At the request of the student, when the grade point average warrants the appellation, these courses may be designated as Juniors Honor Project.
Prerequisites: Junior standing and MUS 291 and an ENH 200-level course and permission of a full-time music faculty member
Corequisites: MUS 380 or MUS 390

MUS 390 Performance Workshop VI
1 hour; 1 credit
Music students will meet once a week to perform before each other and Music faculty in a supportive environment. Discussion of stage deportment, performance anxiety, issues of style, and other topics with the goal of developing readiness for public performance. Performance calendar will be arranged in consultation with the student’s private teacher and the program coordinator.
Prerequisites: MUS 381 or MUS 383 and MUS 380 and permission of a full-time Music faculty member.
MUS 391  Sixth-Semester Private Lessons  
1 hour; 1 credit  
Prerequisites:  Permission of a full-time Music faculty member and MUS 381  
Corequisite: MUS 390

MUS 393  Junior Project (Research)  
1 hour; 3 credits  
Open to Music Majors who wish to complete a research project in music theory or music history of significant scope and length. A full-time Music Faculty member and/or applied music instructor must supervise any of these projects.  
Prerequisites:  Junior standing; completion of an ENH 200-level course; permission of a full-time Music faculty member

MUS 402  Major Composer I  
3 hours; 3 credits  
The course will focus on a particular composer or composers. It will cover the composer's life, major repertoire in various genres, and significant contributions to the music literature. Issues of form and style will be emphasized. The course will include extensive listening assignments and score analysis.  
Prerequisites:  Junior Standing, MUS 204, MUS 226, MUS 224 and MUS 244 and an ENH 200-level course  
Pre or corequisite: MUS 304 and MUS 325

MUS 403  Major Composer II  
3 hours; 3 credits  
The course will focus on a particular composer or composers. It will cover the composer's life, major repertoire in various genres, and significant contributions to the music literature. Issues of form and style will be emphasized. The course will include extensive listening assignments and score analysis.  
Prerequisites:  Junior Standing, MUS 204, MUS 226, MUS 224 and MUS 244 and an ENH 200-level course  
Pre or corequisite: MUS 304, MUS 322, MUS 323, MUS 363

MUS 405  Literature and Music  
(Also ENL 405)  
4 hours; 4 credits  
This course places two art forms, literature and music, in dialogue with each other. The specific focus will be advertised each time the course is taught. Examples include: musical theater and Shakespeare; jazz and Langston Hughes; Early Modern poetry and Bob Dylan. The general aims of the course are to enlarge students' understanding and appreciation of different but related art forms, and to engage students in a cross-disciplinary dialogue about them.  
Prerequisites:  Any 200-level ENH course or ENL 290 or Music Majors with junior or senior standing

MUS 420  Modal Counterpoint  
2 hours; 2 credits  
The polyphonic modes: soprano, mezzo-soprano, alto, tenor, and baritone clefs; shaping a line, with special care for pitch structure, rhythmic flexibility, and ease of performance (students must sing their own examples); combining two, three, and four lines. The models to be studied and emulated are primarily Lassus and Palestrina.  
Prerequisite:  Junior Standing, MUS 322

MUS 422  Counterpoint II  
2 hours; 2 credits  
The study of fugue. Canons (at various intervals: in augmentation, diminution, inversion, and crab); two-part fugue (subject, answer, countersubject, exposition, etc.).  
Prerequisite:  Junior Standing, MUS 322

MUS 424  Score Analysis  
3 hours; 3 credits  
Study of works that demonstrate the variety of musical forms found in Western music.  
Prerequisites:  Junior standing; MUS 303 and MUS 322 and MUS 323 and MUS 363 and an ENH 200-level course  
Pre or corequisite: MUS 304 and MUS 325 and MUS 364

MUS 430  Orchestration  
2 hours; 2 credits  
Score reading; the study of the instruments of the orchestra; the timbres, ranges, and sound potentials; practical exercises in the instrumentation of compositions for ensembles of all varieties, including full symphony orchestra.  
Prerequisite:  Junior Standing, MUS 326

MUS 431  Conducting  
2 classroom hours; 1 laboratory hour; 2 credits  
Baton techniques; score reading; the study of choral and instrumental repertory and associated problems of interpretation; preparation for performance of representative compositions.  
Prerequisites:  Junior Standing, MUS 204, MUS 224, MUS 226, MUS 244 and an ENH 200-level course  
Pre or corequisite: MUS 303, MUS 322, MUS 323, MUS 363

MUS 441  Composing in the Popular Idiom  
2 hours; 2 credits  
A study of compositional technique as applied to popular styles. Analysis of different composers’ approaches to song writing.  
Prerequisites:  Junior Standing, MUS 204, MUS 224, MUS 226, MUS 244 and an ENH 200-level course  
Pre or corequisite: MUS 303, MUS 322, MUS 323, MUS 363
MUS 450  History and Literature of the Symphony
3 hours; 3 credits
A study of the origins, content, and style of significant works in the symphonic literature.
Prerequisites: Junior Standing, MUS 204, MUS 224, MUS 226, MUS 244 and an ENH 200-level course
Pre- or corequisite: MUS 303, MUS 322, MUS 323, MUS 363

MUS 460  History and Literature of Chamber Music
3 hours; 3 credits
A study of the origins, content, and style of significant works in the chamber music literature.
Prerequisites: Junior Standing, MUS 204, MUS 224, MUS 226, MUS 244 and an ENH 200-level course
Pre- or corequisite: MUS 303, MUS 322, MUS 323, MUS 363

MUS 470  History and Literature of Opera
3 hours; 3 credits
A study of the origins, content, and style of significant works in the opera literature.
Prerequisites: Junior Standing, MUS 204, MUS 224, MUS 226, MUS 244 and an ENH 200-level course
Pre or corequisite: MUS 303, MUS 322, MUS 323, MUS 363

MUS 473  Senior Project (Composition)
1 hour; 3 credits
An independent study project for upperclass composition students. The final composition or compositions may be written either for acoustic instruments/voice or for electronic-music media.
Prerequisites: Senior standing; an ENH 200-level course; MUS 204, MUS 224, MUS 226, MUS 244
Corequisites: MUS 303, MUS 322, MUS 323, MUS 363

MUS 480  Performance Workshop VII
1 hour; 1 credit
Music students will meet once a week to perform before each other and Music faculty in a supportive environment. Discussion of stage deportment, performance anxiety, issues of style, and other topics with the goal of developing readiness for public performance. Performance calendar will be arranged in consultation with the student's private teacher and the program coordinator.
Prequisites: Senior standing, MUS 383 or MUS 391 and MUS 390 and permission of a full-time Music faculty member
Corequisite: MUS 481 or MUS 483

MUS 481  Seventh-Semester Private Lessons
1 hour; 1 credit
Prerequisites: Senior Standing, MUS 391 and permission of a full-time faculty member
Corequisite: MUS 480

MUS 483  Senior Project (Performance)
1 hour; 3 credits
Open to Music Majors who wish to perform a full-length public recital of significant scope and length. A full-time Music Faculty member and/or applied music instructor must supervise any of these endeavors. At the request of the student, when the grade point average warrants the appellation, these courses may be designated as a Senior Honors Project.
Prerequisites: Senior standing and permission of a full-time Music faculty member
Corequisite: MUS 480 or MUS 490

MUS 490  Performance Workshop VIII
1 hour; 1 credit
Music students will meet once a week to perform before each other and Music faculty in a supportive environment. Discussion of stage deportment, performance anxiety, issues of style, and other topics with the goal of developing readiness for public performance. Performance calendar will be arranged in consultation with the student's private teacher and the program coordinator.
Prequisites: MUS 481 or MUS 483 and MUS 490 and permission of a full-time Music faculty member.
Corequisite: MUS 483 or MUS 491

MUS 491  Eighth-Semester Private Lessons
1 hour; 1 credit
Prerequisites: Permission of a full-time Music faculty member and MUS 481
Corequisite: MUS 490

MUS 493  Senior Project (Research)
1 hour; 3 credits
Open to Music majors who wish to complete a research project in music theory or music history of significant scope and length. A full-time Music faculty member and/or applied music instructor must supervise these projects.
Prerequisites: Senior standing and permission of a full-time Music faculty member

Nursing

(Associate in Applied Science, Bachelor of Science, Master of Science in Adult Health Nursing - see Graduate Catalog for information on graduate program)
School of Health Sciences
Dean, Marcus Tye
Department of Nursing, Marcus Hall (5S), Room 213
Chairperson and Associate Professor Arlene Farren

Nursing (AAS)
Admission to the Nursing program is competitive. Students must: (1) have a minimum of one semester’s residency; (2) Submission of SAT I and SAT II (BIO) OR the National League for Nursing (NLN) Pre-Admission Examination (PAX) – RN scores for evaluation; (3) Successful completion of the prerequisite courses; (4) Submit completed health and immunization record to the College Health Center by date designated in the admission materials. When the pre-clinical courses have been completed, it is recommended that students register for other outstanding requirements such as the Biology sequence, English, and/or PED 190. Students should consult with a Nursing advisor to assist with appropriate course selection.
Effective fall 2012 semester students must have a minimum grade point average (GPA) of 3.0 in the prerequisite courses, and a minimum of a 2.5 cumulative GPA, with a minimum grade of C in BIO 150 to be considered for admission to the clinical phase of the Nursing program. The number of admissions is limited.

Students who have repeated any of the prerequisite courses may not be considered for admission to the Nursing program. The letter grades earned in prerequisite courses at other colleges are used in the calculation of the index in the prerequisite courses for transfer students.

Transfer students from other colleges must be in good academic standing. Students who are on academic probation, or who have been academically or administratively dismissed from a Nursing program at previous school(s), are not eligible for admission to Nursing at the College of Staten Island.

Once admitted to Nursing, any student who fails to complete NRS 110 successfully must reapply for admission to the program on an appeals basis.

Admissions to the Nursing program are made in June and January each year. Applications for admission are available during each registration online at www.csi.cuny.edu/nursing.

Health Documentation: Each student must maintain a completed health and immunization record on file in the Health Center Office, Campus Center (1C), Room 112. At the beginning of each semester, the student must present a current copy of the health and immunization record to the clinical instructor. This includes an annual physical examination, required immunizations, proof of measles and varicella vaccination or blood titer, PPD test, and drug screen (urine) results. Hepatitis B immunization is highly recommended.

Insurance: Malpractice insurance for Nursing students must be maintained during the time enrolled in the Nursing Education program and is to be renewed yearly. Applications for the insurance are issued at registration. Clinical practice may not begin until the insurance is in effect.

Uniforms: Nursing students are required to wear a uniform during clinical practice. Information about uniforms is available from the department.

CPR Certification: At the start of each clinical course, each student must submit proof of current American Red Cross, National Safety Council, or American Heart Association certification for cardiopulmonary resuscitation.

Starting in the Fall 2009 semester, in order to advance into nursing clinicals, students must provide documentation for one of the following categories:

1. United States Citizenship
2. Permanent Residency
3. International Student with F1 Status
4. Granted Asylum, Refugee Status, Temporary Protected Status, Withholding of Removal, Deferred Enforced Departure; or Deferred Action Status by the United States government

### Pathways Common Core Requirements: 20

#### Pathways Required Core: 10 credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 150 Human Anatomy and Physiology I*</td>
<td>4 credits</td>
</tr>
<tr>
<td>ENG 111 Introduction to College Writing*</td>
<td>3 credits</td>
</tr>
<tr>
<td>ENG 151 College Writing</td>
<td>3 credits</td>
</tr>
<tr>
<td>Life and Physical Sciences (RLPR)</td>
<td>3 or more credits</td>
</tr>
</tbody>
</table>

Students are required to complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>BIO 150 Human Anatomy and Physiology I*</td>
<td>4 credits</td>
</tr>
</tbody>
</table>

**Pathways Flexible Core: 10 credits**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Individual and Society (FISR)</td>
<td>6 credits</td>
</tr>
</tbody>
</table>

Students are required to complete the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHL 130 Introduction to Ethics*</td>
<td>3 credits</td>
</tr>
<tr>
<td>PSY 100 Psychology*</td>
<td>3 credits</td>
</tr>
<tr>
<td>Scientific World (FSWR)</td>
<td>3 or more credits</td>
</tr>
</tbody>
</table>

Students are required to complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 160 Human Anatomy and Physiology II</td>
<td>4 credits</td>
</tr>
</tbody>
</table>

*Prerequisite course requirements for Nursing AAS Program

NOTE: Students may take courses in the STEM areas of the Common Core that have 3 or more credits. This may result in students finishing their degree with more than the regular number of credits required.

### Core Requirements: 41

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 350 Microbiology and Cellular Pathology</td>
<td>3 credits</td>
</tr>
<tr>
<td>BIO 351 Microbiology and Cellular Pathology Laboratory</td>
<td>3 credits</td>
</tr>
<tr>
<td>NRS 110 Medical-Surgical Nursing I</td>
<td>1 credit</td>
</tr>
<tr>
<td>NRS 115 Nursing Therapeutics and Pharmacologic Management in Patient-Centered Care</td>
<td>6 credits</td>
</tr>
<tr>
<td>NRS 120 Medical-Surgical Nursing II</td>
<td>9 credits</td>
</tr>
<tr>
<td>NRS 210 Medical-Surgical Nursing III*</td>
<td>4.5 credits</td>
</tr>
<tr>
<td>NRS 211 Psychiatric Nursing**</td>
<td>4.5 credits</td>
</tr>
<tr>
<td>NRS 220 Family-Centered Maternity Nursing**</td>
<td>4.5 credits</td>
</tr>
<tr>
<td>NRS 221 Child Health Nursing**</td>
<td>4.5 credits</td>
</tr>
<tr>
<td>PED 190 Fitness for Life</td>
<td>1 credit</td>
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<tr>
<td><strong>Half-semester course</strong></td>
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</tr>
</tbody>
</table>

### Electives: 0-3 credits

### Total Credits Required: 64

#### Liberal Arts and Sciences Requirement:

Courses in human services, health education, and nursing are non-liberal arts and sciences.

### Criteria for Continuation in Associate’s Degree Nursing Curriculum:

1. The student must be admitted to and matriculated in the clinical phase of the Nursing curriculum in order to register for any required nursing course.
2. The student must achieve a minimum grade of C+ in each of the required courses and a minimum grade of C in the required biology courses. The student
may repeat only one biology course with a minimum grade of C and only one nursing course with a minimum grade of B. Withdrawal (WU) from any nursing and/or required biology course will be permitted only once.

3. Students with two withdrawals (W) in nursing courses must apply to the Departmental Advisory Committee to request permission to register for any further nursing courses.

4. The time limit for completion of the clinical phase of the Associate's degree Nursing program is five years.

5. Students seeking readmission to the clinical phase after a break of three or more years in enrollment in clinical courses must apply to the Department Advisory Committee. In the event of readmission, the Committee may require additional work, including repeating a previously completed clinical course.

6. Students are expected to adhere to standards that reflect ethical and professional responsibility.

7. Failure of a student to meet any of the above standards will warrant review by the Department Advisory Committee.

**Nursing (BS)**

The College offers an upper-division program leading to the BS degree with a major in Nursing. The program is designed for students who are licensed registered nurses but do not hold the baccalaureate degree.

**Admission Requirements:**

Applicants to RN to BS completion program in Nursing must be graduates of a nursing program from a degree-granting associate degree program, or an an accredited diploma-granting nursing school, or an associate degree program affiliated with an accredited diploma-granting nursing school that prepares students for licensure as Registered Professional Nurses.

Applicants should have at least a 2.5 cumulative grade point average and at least a 2.5 in all nursing courses taken prior to application. Deadlines for applications to CSI and the Department of Nursing, including supporting documentation, are March 15th for the fall semester and October 15th for the spring semester. Information on the RN to BS completion program application process is available on the Registrar's website.

**Pathways Requirements: 37 credits**

<table>
<thead>
<tr>
<th>Pathways Required Core: 14 credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition (RECR)</td>
</tr>
<tr>
<td>ENG 111  Introduction to College Writing*</td>
</tr>
<tr>
<td>ENG 151  College Writing</td>
</tr>
<tr>
<td>Mathematical and Quantitative Reasoning</td>
</tr>
<tr>
<td>Students are required to complete the course:</td>
</tr>
<tr>
<td>MTH 113  Introduction to Probability and Statistics</td>
</tr>
<tr>
<td>Life and Physical Sciences (RLPR)</td>
</tr>
<tr>
<td>Students are required to complete the following course:</td>
</tr>
<tr>
<td>BIO 150  Human Anatomy and Physiology I**</td>
</tr>
</tbody>
</table>

**Pathways Flexible Core: 19 credits**

Students may take no more than two courses from any discipline or interdisciplinary field in the Flexible Core. U.S. Experience in its Diversity (FUSR)

Students are required to take the following course:

| COR 100  United States: Issues, Ideas, and Institutions |

**Individual and Society (FISR)** 6 credits

Students are required to complete the following courses:

| PSU 100  Psychology* |
| PSU 130  Introduction to Ethics* |
| BIO 150  Human Anatomy and Physiology I |
| BIO 160  Human Anatomy and Physiology II |
| BIO 350  Microbiology and Cellular Pathology |
| BIO 351  Microbiology and Cellular Pathology Laboratory |
| CHM 110  Principles of Chemistry I |
| CHM 111  Principles of Chemistry Laboratory |
| CHM 116  Principles of Chemistry II |
| CHM 117  Principles of Chemistry II Laboratory |
| MTH 113  Introduction to Probability and Statistics |
| NRS 110  Medical-Surgical Nursing I |
| NRS 120  Medical-Surgical Nursing II |
| NRS 210  Medical-Surgical Nursing III |
| NRS 211  Psychiatric Nursing |
| NRS 220  Family-Centered Maternity Nursing |
| NRS 221  Child Health Nursing |
| PED 190  Fitness for Life |

**College Option: 4 credits**

Students are required to complete the following course:

| STEM  PHY  Introduction to Physics** |
|-------------|-----|

*Also fulfills pre-major requirements.

**Also fulfills major requirements.

Note: This program has received a waiver to specify particular courses students must take in the areas of the Common Core and Scientific World and College Option. If students take different courses in these areas, they will be certified as having completed the Common Core and the College Option area, but it may not be possible for them to finish their degree program within the regular number of credits.

**Pre-major Requirements: 64 credits**

Students are expected to have completed all the following courses or their equivalent prior to admission to the BS curriculum.

| PSY 100  Psychology |
| PHL 130  Introduction to Ethics |
| BIO 150  Human Anatomy and Physiology I |
| BIO 160  Human Anatomy and Physiology II |
| BIO 350  Microbiology and Cellular Pathology |
| BIO 351  Microbiology and Cellular Pathology Laboratory |
| CHM 110  Principles of Chemistry I |
| CHM 111  Principles of Chemistry Laboratory |
| CHM 116  Principles of Chemistry II |
| CHM 117  Principles of Chemistry II Laboratory |
| MTH 113  Introduction to Probability and Statistics |
| NRS 110  Medical-Surgical Nursing I |
| NRS 120  Medical-Surgical Nursing II |
| NRS 210  Medical-Surgical Nursing III |
| NRS 211  Psychiatric Nursing |
| NRS 220  Family-Centered Maternity Nursing |
| NRS 221  Child Health Nursing |
| PED 190  Fitness for Life |

**Index**

<table>
<thead>
<tr>
<th>Credits</th>
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<tbody>
<tr>
<td>6 credits</td>
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Major Requirements: 40 credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>BIO 382</td>
<td>Pharmacotherapeutics</td>
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<tr>
<td>PHY 114</td>
<td>Introduction to Physics</td>
<td>4</td>
</tr>
<tr>
<td>NRS 303</td>
<td>Seminar in Professional Development</td>
<td>3</td>
</tr>
<tr>
<td>NRS 310</td>
<td>Interpersonal Dynamics for Professional Nurses</td>
<td>3</td>
</tr>
<tr>
<td>NRS 320</td>
<td>Health Assessment and Physical Examination</td>
<td>3</td>
</tr>
<tr>
<td>NRS 321</td>
<td>Introduction to Research in Nursing</td>
<td>3</td>
</tr>
<tr>
<td>NRS 410</td>
<td>Community Health Nursing</td>
<td>6</td>
</tr>
<tr>
<td>NRS 411</td>
<td>Leadership and Management in Nursing</td>
<td>6</td>
</tr>
<tr>
<td>NRS 423</td>
<td>Issues in Health Care and Professional Nursing</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Nursing Electives</td>
<td>6</td>
</tr>
</tbody>
</table>

Electives: 0-1

Total Credits Required: 120

Honors
To graduate with honors in Nursing, a student must have a 3.5 grade point average in Nursing courses, an overall GPA of 3.25, and must complete an honors project. Upon approval by the Baccalaureate Nursing Curriculum Committee, the student will work under the close supervision of a member of the Nursing faculty while conducting this project. Students may receive credit through Independent Study for their work on an honors project.

Criteria for Progression to 400-level courses:
All students must meet the following requirements prior to taking NRS 400 courses:
1. Current New York State license as a Registered Professional Nurse.
2. Completion of the pre-major requirements, either by examination or by completion of the appropriate courses. A maximum of 34 nursing credits are applied toward the BS in Nursing.

Upon successful completion of these requirements, the student must file a Change in Curriculum Form in the BS in Nursing program with the Office of the Registrar (Registrar's curriculum designation N4).

To qualify for continuation in and graduation from the Nursing curriculum, students must have received a grade of at least C in each of the required nursing and biology courses. A student may repeat only one of the required nursing courses and only one of the required biology courses if a grade of less than C is received. Only one Withdrawal (WU) from required courses in nursing or biology is permitted.

Health Documentation
Students taking NRS 410/411 and NRS 421 must present the following on the first clinical day: a completed copy of the College Health Record that includes annual physical examination, required immunizations, proof of measles and varicella vaccination or a positive titer, PPD test, and drug screen (urine) result. Hepatitis B immunization is highly recommended.

Professional Documentation
Students taking NRS 410/411 and NRS 421 must present the following on the first clinical day: copy of current RN license; copy of malpractice insurance face-sheet showing dates and coverage.

(See section under AAS for more information on health and insurance regulations.)

Nursing Courses

NRS 110  Medical-Surgical Nursing I
3 class hours, 9 laboratory hours; 6 credits
Principles and concepts basic to the practice of nursing. Emphasis is on the maintenance and meeting of the basic needs of the adult patient. Introduces the student to alterations in human basic needs as a result of simple health problems. Clinical experience in a general hospital or long-term facility. NOTE: This course has a material fee.
Prerequisite: Satisfactory completion of the Pre-Nursing sequence
Corequisite: NRS 115

NRS 113  Concepts of Medical-Surgical Nursing I
3 hours; 3 credits
Principles and concepts basic to professional nursing practice. Emphasis is on the basic health needs of clients with medical or surgical conditions. The nursing content is focused on the role of the professional nurse and the implementation of the nursing process framework.
Prerequisite: As per 1993-1994 catalog

NRS 115  Nursing Therapeutics and Pharmacologic Management in Patient-Centered Care
3 hours; 3 credits
This course is designed to establish a foundation in nursing therapeutics as it relates to pharmacologic management. Emphasis is placed on the application of pharmacology in safe, effective, patient-centered nursing care and patient education of diverse individuals and families. A major focus will be the application of the nursing process and use of clinical reasoning skills supported by reliable evidence for patients receiving pharmacologic agents. The course will include the integration of technology for nursing therapeutics and pharmacologic management. Methods of medication administration and dosage calculation will be addressed.
Prerequisite: Appropriate score on CUNY Math Assessment Test or MTH 020

NRS 120  Medical-Surgical Nursing II
6 class hours, 9 laboratory hours; 9 credits
Focus is on clinical reasoning and identification of alterations in human basic needs to provide safe, quality, patient-centered care for diverse patients and families. Clinical experience in a general hospital. NOTE: This course has a material fee.
Prerequisites: NRS 110 and NRS 115
Pre- or corequisite: BIO 160
NRS 210  Medical-Surgical Nursing III
6 class hours, 9 laboratory hours for one-half semester; 4.5 credits
Focus is on the nursing problems of a patient with catastrophic illness. Short- and long-term goals of care will be included and the many ramifications that these illnesses have upon the patient, family, society, and the nurse. Clinical experience in general hospital and community agencies. NOTE: This course has a material fee.
Prerequisite: NRS 120
Pre- or corequisites: BIO 350 and BIO 351

NRS 211  Psychiatric Nursing
6 class hours, 9 laboratory hours for one-half semester; 4.5 credits
The development of concepts and skills in psychiatric nursing. Special emphasis is placed on developing increased understanding of the nurse’s own behavior and the role she/he plays in interpersonal relationships. The student learns to recognize the components of mental health and the impact of mental illness upon the patient, the patient’s family, and the community. Laboratory experiences in clinical settings and community agencies. NOTE: This course has a material fee.
Prerequisite: NRS 120
Pre- or corequisites: BIO 350 and BIO 351

NRS 220  Family-Centered Maternity Nursing
6 class hours, 9 laboratory hours for one-half semester; 4.5 credits
Development of concepts and skills in identifying and meeting the complex needs of the expectant family. The family structure and changing roles are emphasized throughout the pregnancy and birth cycle, and special emphasis is placed on the pregnancy, birth, and neonate at risk. Laboratory experiences in clinical settings and community agencies. NOTE: This course has a material fee.
Prerequisites: NRS 210 and 211

NRS 221  Child Health Nursing
6 class hours, 9 laboratory hours for one-half semester; 4.5 credits
Focus is on the complex nursing care of the well and ill child as a member of the family and community. Encompasses nursing assessment and intervention in the promotion, maintenance, and restorative aspects of child-care. Psycho-social aspects of growth and development are emphasized. Laboratory experiences in general hospital and community agencies. NOTE: This course has a material fee.
Prerequisites: NRS 210 and 211

NRS 223  Perspectives and Issues in Professional Nursing
3 hours; 3 credits
An exploration of current topics and issues that influence the practice of professional nursing. Content includes legal, ethical, cultural, managerial, and economic issues as they affect the practice of nursing.
Prerequisites: NRS 110 or NRS 113, and NRS 120

NRS 303  Seminar in Professional Development
3 hours; 3 credits
This course provides an overview of the significance of the nursing role of integrating the data, information, and knowledge required for evidenced-based nursing practice, administration, education, and research. Topics will focus on the role of the nurse in managing the collection and handling of sensitive client data, including ensuring accuracy in collection, confidentiality, and security. Nurs-
ing documentation to accurately reflect quality, safe nursing assessment, nursing interventions, planning, nurse resource use, and client outcomes will be examined. The nursing role in system change, selection, and evaluation of clinical health information systems will be explored. Ethical, legal, and social issues and trends relative to information technology, electronic health records, communication, and culturally competent nursing care of the individual, family, and community will be discussed.

Pre- or corequisites: NRS 303, NRS 310

NRS 320 Health Assessment and Physical Examination
2 lecture hours, 2 laboratory hours; 3 credits
The skills and techniques to perform culturally competent comprehensive health assessment and physical examination for generalist-nursing practice are refined. Nursing assessments of normal health parameters serve to differentiate the health patterns of culturally diverse individuals across the life span. Communication strategies, health histories, data from interviews, and case studies will be critically analyzed for quality safe nursing care for individuals, families, and communities. Standardized nursing classification systems are used throughout the course. NOTE: This course has a material fee.

Pre- or Corequisites: NRS 303, NRS 310

NRS 321 Introduction to Research in Nursing
3 hours; 3 credits
An introduction to steps of the research process and to strategies for critically appraising nursing research for evidence-based practice. Research utilization, applications for quality and safe nursing practice, the use of technology in nursing research, and further directions of nursing research will be discussed. Students will read and critique a selection of current published nursing research articles. Emphasis will be on culturally competent clinical nursing research including both quantitative and qualitative designs used with individual, family, and community samples.

Prerequisites: NRS 303, NRS 310
Pre- or corequisite: MTH 113

NRS 323 Health Care Needs of Vulnerable Populations
3 hours; 3 credits
An exploration of the concept of vulnerability and its effect on health care needs. The physical, psychological, sociological, political, and economic factors that predispose individuals, families, and communities to vulnerability are investigated. The development of quality, safe, evidence-based interventions that break the cycle of vulnerability are determined. Students use a variety of technological modalities in the exploration of vulnerable groups and program development to meet the needs of the vulnerable.

Pre- or corequisites: NRS 303, NRS 310

NRS 324 Nursing Care of Older Adults
3 hours; 3 credits
This course provides the student with a foundation for culturally competent gerontological nursing practice. This course examines, from a holistic perspective, varied health care concerns of older adults. The physical, psychosocial, socioeconomic, family, and community implications will be examined. Through this course, students develop knowledge and awareness of the spectrum of factors that can impact the care of the older adult across various health care settings and in the community. The development of strategies and interventions of health promotion and maintenance to improve wellness in older adults is emphasized.

Pre or corequisites: NRS 303, NRS 310

NRS 325 Nursing Care at the End of Life
3 hours; 3 credits
This course explores evidence-based care of individuals and families at the end of life. Quality and safety issues are addressed in providing holistic care in assessing, planning, and meeting the physical, cultural, social, and spiritual needs of the dying patient and their families. As a member of the multidisciplinary team, collaboration and communication are identified to reduce the burden and distress of those facing life’s end.

Pre or corequisite: NRS 303, NRS 310

NRS 410 Community Health Nursing
3 class hours, 6 laboratory hours; 6 credits
Nursing, public health theories and evidence-based research are integrated to provide students with knowledge for culturally competent nursing care of individuals, families, and communities. Safe and quality nursing care of populations are emphasized related to health promotion, health protection, and disease management. Professional nursing care is developed through communication skills in mutual collaboration with consumers and interdisciplinary teams.

Prerequisite: BIO 382, NRS 303, NRS 310, NRS 320, and New York State RN License

NRS 411 Leadership and Management in Nursing
3 hours lecture/week, 6 hours clinical/week; 6 credits
Nursing, leadership, and management theories are discussed and analyzed in relation to their influence on care of diverse individuals, families, and communities in the practice setting. Nursing leadership and management roles and responsibilities are discussed as they apply to individuals, staff, and organizations. Conceptual themes of critical thinking, decision making, and therapeutic nursing interventions in relation to quality improvement initiatives are integrated throughout the course. Evidence-based practice and research findings are examined for their relevance in refining and extending the role of leader in professional nursing practice.

Prerequisites: NRS 303, NRS 310 and NYS RN License
Corequisite: NRS 321

NRS 421 Nursing in Critical Illness
3 hours; 3 credits
This course focuses on the roles of professional nurses in the specialty of critical care nursing in the delivery of quality and safe culturally competent nursing care of the individual patient and communities with critical illness. It explores advances in nursing in a rapidly changing health care system, where critically ill patients are in a variety of settings. Emphasis is on nursing research and evidence based practice, as well as technological developments.
Students use technology and evidence-based research in the implementation of an educational project incorporating best clinical practices geared towards the patient or nursing personnel population.
Pre or corequisite: NRS 320, NRS 321, BIO 382

**NRS 423 Issues in Health Care and Professional Nursing**
3 hours; 3 credits
Current issues in health care and nursing are discussed and analyzed in relation to their influence on culturally competent care of individuals, families, and communities. Pro and con positions are addressed through discussions, papers, and other teaching-learning activities and technologies aimed at enhancing quality and safe care. Individual, group, and political strategies to negotiate and effect change are outlined and demonstrated. Critical appraisal of research, theories, historical and current events, ethical and legal guidelines, professional associations, networking, mentoring, and other resources to promote cultural competence in the diverse workplace and advance the nursing profession are explored. This course should be taken in the student’s last semester of the BS degree program in Nursing.
Pre- or corequisites: NRS 410 and NRS 411

**Philosophy**

(Bachelor of Arts in Philosophy, Bachelor of Arts in Philosophy and Political Science, Philosophy Minor, Ethics Minor)
Department of Philosophy, Marchi Hall (2N), Room 224
Chairperson and Professor Mark D. White

**Philosophy (BA)**

**Major Requirements: 28 credits**
At least 28 credits of courses at the 200 level or higher. These 28 credits must include courses in at least three of the following four areas, including a minimum of two in (1) History of Philosophy, and one in (2) Knowledge, Logic, and Scientific Method.

1. History of Philosophy (PHL 200-219, 300-319)
4. Culture and Religion (PHL 240-249, 340-349)
The 28 credits must also include at least two courses at the 300 level and a Senior Seminar (PHL 400, PHL 401, or PHL 490).
In addition, students must complete at least 12 credits of work in related subjects chosen in consultation with an advisor. Relevant areas include history, politics, psychology, sociology, literature, science, law, economics, education, public administration, and the arts. These courses may also be used to satisfy general education requirements.

**Electives: 50 credits**

**Total Credits Required: 120**

**Honors**
To graduate with honors in Philosophy a student must have a 3.5 grade point average in philosophy courses and must complete a thesis or project determined by the student and his or her faculty sponsor and the course POL/ECO/PHL/GEG 490 Senior Seminar in Political Science, Economics, Philosophy, and Geography.

**Philosophy and Political Science (BA)**

**Dual Major in Philosophy and Political Science (BA)**
Requirements for the dual major in Philosophy and Political Science (BA) include the general education requirements and 19 credits in Philosophy, and 19-20 credits in Political Science. A total of 120 credits required.

**Dual Major Requirements: 42-43 credits**

**PHL 101 Introduction to Philosophy** or
**PHL 130 Introduction to Ethics** 3 credits
Four 200-level or above courses in Philosophy including at least one course at the 300 level or above. Of these four courses, one must be in the History of Philosophy (PHL 200-219, 300-319) and one in Philosophical Method (PHL 220-229, 320-329, 420).
**POL 100 American Government and Politics** or
**POL 235 The American Political System** 4 credits
Four 200-level or above courses in political science including at least one course at the 300 level or above. These four courses must be chosen from at least two of the following areas: American politics (POL 220-239; POL 320-339), political theory (POL 200-219; POL 300-319), comparative government (POL 240-259; POL 340-359), international politics (POL 260-279, POL 360-379), POL/ECO/
**PHL/GEG 490 Senior Seminar in Political Science, Economics, Philosophy and Geography** 4 credits

**Elective credits: 35-36**

**Total Credits Required: 120**

**Honors**
To graduate with honors in the Philosophy and Political Science (BA) a student must have a 3.5 grade point average in philosophy and political science courses and must complete a thesis or project determined by the student and his or her faculty sponsor and the course POL/ECO/PHL/GEG 490 Senior Seminar in Political Science, Economics, Philosophy, and Geography.

**Philosophy Minor**

**Minor Prerequisite course: (3 credits)**
Any 100-level philosophy course

**Minor Requirements (12 credits)**
At least 12 credits in philosophy at or above the 200-level.
Ethics Minor

Minor Requirements: 15 credits

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>PHL 130</td>
<td>Introduction to Ethics</td>
<td>3</td>
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<tr>
<td>Two courses at or above the 200 level chosen from the following:</td>
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<tr>
<td>PHL 236</td>
<td>Life and Death Bioethics</td>
<td>4</td>
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<tr>
<td>PHL 238</td>
<td>Ethical Issues in Business and Society</td>
<td>4</td>
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<tr>
<td>PHL 266</td>
<td>Environmental Ethics</td>
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<td>PHL 322</td>
<td>Ethical Theory</td>
<td>4</td>
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<tr>
<td>PHL 336</td>
<td>Advanced Topics in Ethics and</td>
<td>4</td>
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<tr>
<td>on p. 283</td>
<td>Social Philosophy</td>
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<tr>
<td>One additional course at or above the 200 level chosen from the following:</td>
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<td>PHL 200</td>
<td>Early Political Theory</td>
<td>4</td>
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<tr>
<td>PHL 202</td>
<td>Modern Political Theory</td>
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<td>PHL 233</td>
<td>Race Discrimination: A Philosophical Analysis</td>
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<td>PHL 236</td>
<td>Life and Death Bioethics</td>
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<td>PHL 303</td>
<td>Recent Political Theory</td>
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<td>PHL 332</td>
<td>Economic Theory</td>
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<td>PHL 333</td>
<td>Economics and Philosophy</td>
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<td>PHL 336</td>
<td>Advanced Topics in Ethics and</td>
<td>4</td>
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<tr>
<td>on p. 283</td>
<td>Social Philosophy</td>
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Philosophy Courses

PHL 100  Introduction to Logic
3 hours; 3 credits
Identification and critical evaluation of arguments in philosophical, scientific, and ordinary contexts from a logical point of view. They will do so by learning about various kinds of arguments (deductive, inductive, abductive, deductive-hypothetico, etc.), the logical principles which underlie good arguments, the logical fallacies which render arguments defective, and more. They will learn about these things both directly (through examination and discussion of a logic textbook) and indirectly (through examination and discussion of philosophical, scientific, and other works which may be evaluated from a logical point of view). (social science) (FSWR)

PHL 101  Introduction to Philosophy
3 hours; 3 credits
A study of those systems of Western thought that have had the greatest effect and that have best illuminated the central problems of human existence. (social science) (FISR)

PHL 130  Introduction to Ethics
3 hours; 3 credits
Social and individual conduct in the light of important ethical theories of Western civilization. Topics include the meaning of good and evil, the meaning of right and wrong, free will, and the validity of ethical judgment. (social science) (FISR)

PHL 200  Early Political Theory
(Also POL 201)
4 hours; 4 credits
Analysis of major ideas and concepts of Western political theory from the Greeks to Hobbes. Such questions as the ends of politics, the nature of citizenship, the extent and limits of political obligation, and the relationship between rulers and the ruled will be discussed. (social science) NOTE: This course satisfies the College Option. Prerequisites: ENG 111, COR 100

PHL 202  Modern Political Theory
(Also POL 202)
4 hours; 4 credits
The development of modern theories of the state, with emphasis on democracy and theories of representation, the forces underlying political change and revolution, and the growth of “collectivism.” Such authors as Locke, Rousseau, Hegel, Mill, and Marx will be read. (social science) NOTE: This course satisfies the College Option. Prerequisites: ENG 111, COR 100

PHL 204  American Political and Legal Thought
(Also POL 204)
4 hours; 4 credits
A study of the political ideology dominating several periods of American history, including the Puritan, revolutionary, pre-Civil War, populist, and New Deal eras. Analysis of the writing of at least one current theorist and one major legal philosopher. (social science) NOTE: This course satisfies the College Option. Prerequisites: ENG 111, COR 100

PHL 210  American Philosophy
(Also AMS 210)
4 hours; 4 credits
A study of philosophy in America. Topics of inquiry will be selected from such movements and figures as the following: Puritanism, empiricism, idealism, and pragmatism; Jonathan Edwards, Ralph Waldo Emerson, Josiah Royce, Charles S. Peirce, William James, John Dewey, George Santayana, and Alfred North Whitehead. (social science) NOTE: This course satisfies the College Option. Prerequisites: ENG 111, COR 100

PHL 213  Existentialism
4 hours; 4 credits
Major figures and directions in existential philosophy will be studied, including such figures as Kierkegaard, Nietzsche, Heidegger, Sartre, Camus, and Ricoeur. Existential philosophy will be considered both as a reaction against rationalist and positivist thought and as a new attempt to examine and define human values. The course will pay some attention to related developments in religion and psychology. (social science) NOTE: This course satisfies the College Option. Prerequisites: A 100-level course in philosophy or sophomore standing; ENG 111, COR 100
PHL 215  Philosophy of Sport
4 hours; 4 credits
Introduction to philosophical issues surrounding the playing, watching and production of sport. Topics include the problem of defining ‘sport’, the impact of sport on society and individuals, the value of sportsmanship, drug use in sport, and how to assess the life of the sports fan. Prerequisite: A 100-level course in philosophy or sophomore standing; ENG 111, COR 100

PHL 216  Ideas and the World: 600 BCE to 1600 CE
4 hours; 4 credits
The development of philosophy from pre-Socratic times through the 16th century. Emphasis on the dialogues of Plato and the writings of Aristotle with attention to such other thinkers as Epicurus, Marcus Aurelius, Plotinus, Augustine, and Aquinas. (social science) NOTE: This course satisfies the College Option. Prerequisites: A 100-level course in philosophy or sophomore standing; ENG 111, COR 100

PHL 217  Ideas and the World: 1600 to the Present
4 hours; 4 credits
The development of philosophy from the beginning of the 17th century to the present through the study of philosophical texts. Readings will be drawn from such authors as Descartes, Hume, Kant, Marx, Mill, Nietzsche, Dostoevsky, and Ayer. (social science) NOTE: This course satisfies the College Option. Prerequisites: A 100-level course in philosophy or sophomore standing; ENG 111, COR 100

PHL 218  Major Philosopher I
4 hours; 4 credits
This course will focus on a particular philosopher. It will cover the life, the main theories and ideas, the main contributions, and the main problems and difficulties. Philosophers will be chosen from all periods of philosophy (ancient, medieval, modern) and from all cultures (American, European, Asian, Islamic, African, etc.). Typical assignments will be quizzes on the philosopher’s life and ideas, and on logical analysis; three or four analytical papers; final examination. The course is open to majors and non-majors. Prerequisites: ENG 111 and COR 100

PHL 219  Major Philosopher II
4 hours; 4 credits
Intensive study of the work of a major philosopher. Prerequisites: ENG 111 and COR 100

PHL 220  Experience and Knowledge
4 hours; 4 credits
A study of various theories of knowledge and of the relation of experience to knowledge. Inquiry will include such topics as experience and nature, knowledge and belief, perception, memory and the past, meaning and meaningfulness, thought and feeling, and observation in the natural and social sciences. (social science) NOTE: This course satisfies the College Option. Prerequisites: A 100-level course in philosophy or sophomore standing; ENG 111, COR 100

PHL 221  Logic and Scientific Method
4 hours; 4 credits
An analysis of the pitfalls of language, and an investigation into the formal structure and methodology of deductive and empirical sciences. (social science) NOTE: This course satisfies the College Option. Prerequisites: A 100-level course in philosophy or sophomore standing; ENG 111, COR 100

PHL 223  Philosophical Thinking
4 hours; 4 credits
This course will explore different types of philosophical argument with the aim of developing the student’s capacity for critical thought. Important texts from the history of philosophy will be analyzed in class discussions and essays; students will also be asked to develop and to criticize arguments on the issues discussed. Emphasis will be on the methods of philosophy rather than on its history. (social science) NOTE: This course satisfies the College Option. Prerequisites: A 100-level course in philosophy or sophomore standing; ENG 111, COR 100

PHL 224  Selected Issues in Metaphysics
4 hours; 4 credits
A study of a selected issue or issues in metaphysics. Possible topics include: philosophy of mind, ontology, causality, free will and determinism, space and time. (social science) NOTE: This course satisfies the College Option. Prerequisites: A 100-level philosophy course or sophomore standing; ENG 111, COR 100

PHL 225  Political Philosophy
4 hours; 4 credits
Overview of the most influential ideas in the history of political philosophy. The course will begin by examining ancient political thought and will transition up to the ideas of some contemporary political thinkers. Throughout the course, students will consider criticisms of the historical texts. Among the issues addressed are the justifications for political systems, the connection between human nature and the ideal political arrangement, and the influence that economic factors have on political structures. In the course of these investigations students will become familiar with various schools of political thought which may include social contract theory, utilitarianism, socialism, communism, libertarianism, and anarchism. (social science) Prerequisites: PHL 101 or PHL 130

PHL 226  Life and Death: Bioethics
4 hours; 4 credits
The fundamental nature of racism is examined by studying its meaning, causality, and “usefulness” to the individual and to society. Ethical analysis will be made, and students can choose to do research at organizations dedicated to fighting discrimination. Prerequisite: A 100-level course in philosophy or sophomore standing

PHL 227  Race Discrimination: A Philosophical Analysis
4 hours; 4 credits
The development of political philosophy from the beginning of the 17th century to the present through the study of philosophical texts. Readings will be drawn from such authors as Descartes, Hume, Kant, Marx, Mill, Nietzsche, Dostoevsky, and Ayer. (social science) NOTE: This course satisfies the College Option. Prerequisites: A 100-level course in philosophy or sophomore standing; ENG 111, COR 100

PHL 228  Political Philosophy
4 hours; 4 credits
Overview of the most influential ideas in the history of political philosophy. The course will begin by examining ancient political thought and will transition up to the ideas of some contemporary political thinkers. Throughout the course, students will consider criticisms of the historical texts. Among the issues addressed are the justifications for political systems, the connection between human nature and the ideal political arrangement, and the influence that economic factors have on political structures. In the course of these investigations students will become familiar with various schools of political thought which may include social contract theory, utilitarianism, socialism, communism, libertarianism, and anarchism. (social science) Prerequisites: PHL 101 or PHL 130

PHL 229  Logic and Scientific Method
4 hours; 4 credits
An analysis of the pitfalls of language, and an investigation into the formal structure and methodology of deductive and empirical sciences. (social science) NOTE: This course satisfies the College Option. Prerequisites: A 100-level course in philosophy or sophomore standing; ENG 111, COR 100

PHL 230  Philosophical Thinking
4 hours; 4 credits
This course will explore different types of philosophical argument with the aim of developing the student’s capacity for critical thought. Important texts from the history of philosophy will be analyzed in class discussions and essays; students will also be asked to develop and to criticize arguments on the issues discussed. Emphasis will be on the methods of philosophy rather than on its history. (social science) NOTE: This course satisfies the College Option. Prerequisites: A 100-level course in philosophy or sophomore standing; ENG 111, COR 100

PHL 231  Selected Issues in Metaphysics
4 hours; 4 credits
A study of a selected issue or issues in metaphysics. Possible topics include: philosophy of mind, ontology, causality, free will and determinism, space and time. (social science) NOTE: This course satisfies the College Option. Prerequisites: A 100-level philosophy course or sophomore standing; ENG 111, COR 100

PHL 232  Political Philosophy
4 hours; 4 credits
Overview of the most influential ideas in the history of political philosophy. The course will begin by examining ancient political thought and will transition up to the ideas of some contemporary political thinkers. Throughout the course, students will consider criticisms of the historical texts. Among the issues addressed are the justifications for political systems, the connection between human nature and the ideal political arrangement, and the influence that economic factors have on political structures. In the course of these investigations students will become familiar with various schools of political thought which may include social contract theory, utilitarianism, socialism, communism, libertarianism, and anarchism. (social science) Prerequisites: PHL 101 or PHL 130

PHL 233  Race Discrimination: A Philosophical Analysis
4 hours; 4 credits
The fundamental nature of racism is examined by studying its meaning, causality, and “usefulness” to the individual and to society. Ethical analysis will be made, and students can choose to do research at organizations dedicated to fighting discrimination. Prerequisite: A 100-level course in philosophy or sophomore standing

PHL 234  Life and Death: Bioethics
4 hours; 4 credits
The fundamental nature of racism is examined by studying its meaning, causality, and “usefulness” to the individual and to society. Ethical analysis will be made, and students can choose to do research at organizations dedicated to fighting discrimination. Prerequisite: A 100-level course in philosophy or sophomore standing

PHL 235  Political Philosophy
4 hours; 4 credits
Overview of the most influential ideas in the history of political philosophy. The course will begin by examining ancient political thought and will transition up to the ideas of some contemporary political thinkers. Throughout the course, students will consider criticisms of the historical texts. Among the issues addressed are the justifications for political systems, the connection between human nature and the ideal political arrangement, and the influence that economic factors have on political structures. In the course of these investigations students will become familiar with various schools of political thought which may include social contract theory, utilitarianism, socialism, communism, libertarianism, and anarchism. (social science) Prerequisites: PHL 101 or PHL 130
An examination of basic human mysteries and dilemmas including the nature of life and self-identity, the implications of death, and the complex moral issues arising from technological advances. Among topics considered are euthanasia, abortion, human experimentation, behavioral and genetic control, and the rights and responsibilities of patients and professionals. Open to all students, it will have special significance for those preparing for health care services. (social science) NOTE: This course satisfies the College Option.

Prerequisites: ENG 111, COR 100; a 100-level course in philosophy or sophomore standing

**PHL 237  The Tragic Dilemma**  
4 hours; 4 credits  
Analysis of the consequences of human finitude (mortality, fallibility, ignorance) in an attempt to illustrate the meaning of tragedy as a lived experience. Discussion of the ways in which humans attempt to avoid the recognition of tragedy or attempt to make it bearable. Orientation will be accomplished through a study of the literature of tragedy. (social science) NOTE: This course satisfies the College Option.

Prerequisites: A 100-level course in philosophy or sophomore standing; ENG 111, COR 100

**PHL 238  Ethical Issues in Business and Society**  
(Also BUS 238)  
4 hours; 4 credits  
Critical examination of the economic and social responsibility of business in the U.S. and around the world; exploration of the appropriate scope of ethical involvement from the points of view of management and society; the limitations of responsibility and the establishment of ethical criteria for the evaluation of business performance; the role of public policy in shaping corporate responsibility; consideration of ethical issues arising from the changing nature and implementation of computer and information technology.

Prerequisites: ENG 111; PHL 101 or PHL 130 or MGT 110 or sophomore standing

**PHL 240  Philosophy of Religion**  
4 hours; 4 credits  
A study of some of the classical problems in the philosophy of religion, including arguments for the existence of God, religious language, the unique features of religious experience, and the relation between reason and faith. (social science) NOTE: This course satisfies the College Option.

Prerequisites: A 100-level course in philosophy or sophomore standing; ENG 111, COR 100

**PHL 242  Biblical Themes**  
4 hours; 4 credits  
An introduction to the fundamentals of Biblical research and a close examination of selected themes in the Old and New Testaments: creation, covenant, prophetic protest, messiah, community, and the meaning and fulfillment of history. The purpose will be to gain an overall view of the Bible and to develop skills requisite to its fuller understanding.

Prerequisites: ENG 111 and a 100-level course in philosophy or sophomore standing

**PHL 243  Comparative Religion**  
4 hours; 4 credits  
A study of the great religious systems (e.g., Hinduism, Buddhism, Confucianism, Taoism, Zoroastrianism, Judaism, Christianity, and Islam). Challenges to the life of contemporary religions, demographic patterns, ethical stands, the role of women, ecological concern, and interfaith conflict and cooperation will be explored (cont. wld.) (p&d) (TALA) NOTE: This course satisfies the College Option.

Prerequisites: A 100-level course in philosophy or sophomore standing; ENG 151, COR 100

**PHL 245  Introduction to Asian Philosophical Traditions**  
(Also ENG 266)  
4 hours; 4 credits  
Introduction to the philosophical texts and ideas found in the traditions of China, Japan, and India. The focus is on Confucian, Daoist, Buddhist, Shinto and Samurai thought. Themes addressed include: the nature of reality and human nature, the self, knowledge, how to live well, and the good society. Where possible, comparisons will be made with classical Greek and European Enlightenment thinkers.

Prerequisite: A 100-level course in philosophy or sophomore standing; ENG 111, COR 100

**PHL 246  Environmental Ethics**  
(Also GEG 266)  
4 hours; 4 credits  
This course provides a critical forum to examine the roots and results of our attitudes toward the environment. How should we view the apparent connections between pollution, economic development, and poverty; what (if anything) do we owe future generations; how should we consider non-human animals in the environment; is there justice or injustice in environmental civil disobedience? The course will draw on issues related to philosophy, geography, biology, economics, geology, and political science, and will challenge the exercise of global consciousness in "real-world" terms.

Prerequisites: A 100-level course in philosophy or sophomore standing; ENG 111, COR 100

**PHL 303  Recent Political Theory**  
(Also POL 303)  
4 hours; 4 credits  
An examination of leading works in political theory of the late 19th and 20th centuries. The central theme will be the attacks on and the reaffirmations of liberal democratic thought. Discussion of problems of order and violence, social and political revolutions, and democratic processes. Readings will be drawn from original works in political theory by writers such as Arendt, Dewey, Freud, Hayek, Lenin, Marx, and Sorel.

Prerequisites: Sophomore standing and any 100-level political science or philosophy course

**PHL 320  Philosophy, Religion, and Psychology**  
4 hours; 4 credits
A study of the common and conflicting aspects of philosophy, religion, and psychology and their assumptions and methods; the debate between science and religion; contrasting views of the human predicament, proposals for change, and their intended results. Consideration of such authors as Freud, Jung, James, Fromm, Teilhard de Chardin, Watts, Tillich, and Skinner.

Prerequisite: At least one 200-level course in philosophy

PHL 321  Mathematical Logic
(Also MTH 350)
4 hours; 4 credits

Prerequisite: MTH 233 or MTH 236

PHL 331  Legal Philosophy
(Also POL 330)
4 hours; 4 credits
The nature of legal principles and, in particular, their application to moral and political life. Such topics as: freedom of speech, the control of sexual behavior, the distribution of property and income, punishment, the morality of war, the choice of political means. Particular attention will be paid to the question of the extent to which the state should employ the technique of law in enforcing the community’s moral and political principles.

Prerequisite: At least one 200-level course in philosophy or two POL courses

PHL 332  Ethical Theory
4 hours; 4 credits
An examination of the two fundamental divisions of ethical theory: normative ethics and metaethics. Normative ethics is the study of what we ought to do, desire, feel, or be, either in particular cases or in general. Normative ethical questions include: Which acts are morally right/wrong and why? What kinds of persons should we be and why? Metaethics is the study of the nature and status of normative ethics. Metaethical questions include: Do objective moral truths exist? If so, what is their origin and how can we come to know them? Are there reasons beyond self-interest for being moral?

Prerequisites: PHL 101 or PHL 130 and at least one 200-level PHL course

PHL 333  Economics and Philosophy
(Also ECO 333)
4 hours; 4 credits
This course will cover topics that overlap in the fields of economics and philosophy. It will enlighten Economics majors about the philosophical underpinnings of economics and introduce Philosophy majors to the more "thoughtful" aspects of economics. Topics discussed will include: rational choice and ethics; social welfare; justice, efficiency, and equity; social choice; and game theory.

Prerequisites: ENG 111 and any introductory-level economics or philosophy course

PHL 336  Advanced Topics in Ethics and Social Philosophy
4 hours; 4 credits
A study of a selected issue or issues in ethics and social philosophy. Possible topics include physician-assisted suicide, eugenics, health care rights, welfare, and property rights.

Prerequisite: At least one 200-level course in philosophy

PHL 344  Eastern Philosophy
4 hours; 4 credits
An inquiry, both theoretical and experiential, into the great philosophies of the Far East. Readings selected from the classical writings of Hinduism, Buddhism, Confucianism, and Taoism. Attention will also be paid to such modern thinkers as Gandhi and Mao Zedong.

Prerequisite: At least one 200-level course in philosophy or permission of the department

PHL 345  Art and Criticism
4 hours; 4 credits
A discussion of theories concerning the nature of art and of aesthetic experience; the ideas of mimesis, beauty, and expression; methods of criticism and standards of judgment in the arts; the relation of art to morals and politics.

Prerequisite: At least one 200-level course in philosophy

PHL 400  Senior Seminar I
4 hours; 4 credits each
Advanced seminar and directed study for majors. A special theme integrating coursework in the Philosophy major will be adopted each semester. In addition, students will select individual projects needed to round out their programs. The course involves research, conferences, oral reports, and a term paper presented for class discussion.

Prerequisite: 20 credits in philosophy

PHL 420  Foundations of Mathematics
(Also MTH 440)
4 hours; 4 credits
Postulate systems and their interpretations; sets, groups, rings, and ordered fields; partially ordered sets and lattices; theory of cardinal and ordinal numbers; well-ordered sets and transfinite induction; Boolean rings; mathematical logic.

Prerequisite: MTH 339 or MTH 350

PHL 490  Senior Seminar in Political Science, Economics, Philosophy, and Geography
(Also ECO 490/GEG 490/POL 490)
4 hours; 4 credits
Selected topics in which ideas and approaches from economics, political science, philosophy, and geography either mesh or collide will be explored. Required of all students expecting to graduate with honors in Political Science, Economics, Philosophy, or Geography, but not limited to these students.

Prerequisites: Senior standing, completion of at least 16 credits in intermediate and advanced social science courses, and permission of the instructor
Photography Minor

(Minor) Department of Performing and Creative Arts, Center for the Arts (1P), Room 203
Chairperson and Professor George Emilio Sanchez
Coordinator: Professor Beatrice Reinhardt, Center for the Arts (1P), Room 209

Pre-Minor Requirements: 6 credits
- PHO 101 Introduction to Photography 3 credits
- PHO 201 Introduction to Darkroom 3 credits

Minor Requirements: 12 credits
At least 12 credits in photography at or above the 200 level.

The faculty strongly recommends at least one course that emphasizes the theoretical or historical underpinnings of photography chosen from: PHO 220, PHO 365, ART 303 (History of Photography), PHO 314 /ART 314.

Liberal Arts & Sciences Requirement:
Since most photography courses are non-liberal arts and sciences, students in this program should pay special attention to this requirement.

Photography Courses

PHO 101 Introduction to Photography
4 hours; 3 credits
An introduction to the practice of photography. It is an introduction to photographic seeing and the visual grammar of photography. The class combines basic design problems, exercises in seeing elements of the medium, and the history and development of photography as an art form as well as basic principles and techniques of camera, photographic materials, processes, and techniques for image processing and print production are covered. (arts & com) (TALA) NOTE: This course is a prerequisite for all other photography courses. NOTE: This course has a material fee.

PHO 201 Introduction to Darkroom Techniques
4 hours; 3 credits
An introduction to the practice of darkroom-based black and white photography. A study of the history and development of black and white photography as an art form as well as basic principles and techniques of 35mm film camera and darkroom practice will be covered, including the use of a variety of films, developers, and papers. The course addresses mastery of materials as a creative tool. Students are required to provide a 35mm manual SLR film camera. NOTE: Student must demonstrate through a portfolio a good understanding about the basics of camera techniques. NOTE: This course has a material fee. Prerequisite: PHO 101

PHO 206 Digital Photography
4 hours; 3 credits
An introduction to digital photography including principles and techniques of a Digital Single-Lens Reflex (DSLR) camera, color management, types of paper, monitor processing and image enhancement techniques in relation to input and output are discussed and demonstrated. The class will cover fundamentals of image editing, including RAW conversion, localized adjustments, and color to black-and-white conversions, as well as printer profiles, driver settings, and soft-proofing. Through demonstrations and hands-on sessions, students will learn the basics of using DSLR cameras and imaging software on a Macintosh computer to produce digital photographs. NOTE: This course has a material fee. Prerequisite: PHO 101

PHO 215 Historical and Alternative Photographic Processes
4 hours; 4 credits
Exploration and practice of historic and new methods and materials beyond the standard silver gelatin print. Students will learn to make pinhole cameras, paper negatives, wet-collodion negatives and ambroytpes, digital negatives for contact printing and different hand-coated printing processes. These practices will be put in historical and contemporary contexts by the introduction of different photographic movements, historical events, and through looking at the work of photographers using the processes. NOTE: This course has a material fee. Prerequisite: PHO 101 and PHO 201

PHO 220 Intermediate Photography
4 hours; 3 credits
The course combines an emphasis on interpretive camera and darkroom techniques with a thoughtful approach to the making of a photograph. Development of visual perception and individual style are emphasized. Included are fiber-based paper printing, toning, bleaching, push film processing, selective contrast, and an introduction to color. NOTE: This course has a material fee. Prerequisite: PHO 101 and PHO 201

PHO 230 Color Photography
4 hours; 3 credits
An introduction to expressive color photography, exploring the technical, conceptual, and aesthetic uses of color photography. This class provides an in-depth study of the dynamics of color as a creative tool. Projects will explore the creative and technical possibilities of color film, and introduce students to computer tools that manipulate and enhance photographic images. Students will learn the skills to retouch and enhance these images from varied sources in order to create high-quality digital outputs. Assignments are designed to help master basic techniques and expand the photographer’s creative horizons. NOTE: This course has a material fee. Prerequisite: PHO 101 and PHO 201

PHO 235 Fashion Photography
4 hours; 3 credits
An examination of the aesthetic and technical strategies of editorial fashion photography, ranging from glamour to magazine work to advertising campaigns. Students will develop and execute complex photographic strategies, creating a portfolio of images for editorial stories. The course uses a teamwork—based studio practice, with students playing the roles of photographer, art director, photo editor, and photo stylist, as well as making work on...
their own. The course will teach the practice of editorial fashion photography via a critical and theoretical analysis of its history, with an emphasis on its intersection with fine art photography. NOTE: This course has a material fee.
Prerequisite: PHO 101 and PHO 201

PHO 240 Documentary Methods in Photography
4 hours; 3 credits
An in-depth study of approaches and styles of documentary photography, and the concepts of narrative, sequence, story, and series, and their journalistic and artistic applications. An examination of how other photographers have employed these conventions in their work will be explored. Students will develop a body of work based on what they have learned. NOTE: This course has a material fee.
Prerequisites: PHO 101 and PHO 201

PHO 250 Studio Photography I
4 hours; 3 credits
Photography studio techniques. Students will work both in large and small formats, utilizing tungsten and studio strobe lighting. Techniques of still life, portraiture, fashion, and figure photography will be stressed. NOTE: This course has a material fee.
Prerequisite: PHO 201

PHO 305 Photography in New York
4 hours; 3 credits
An exploration of New York City and its boroughs as a classroom for learning about the practice, art, and visual language of photography. The course will consist primarily of field trips to photography exhibitions and collections in New York City and involve the study and discussion of both historical and contemporary photography. Students will be required to participate in discussions, exchange thoughts and ideas, keep a detailed journal of thoughts and impressions from all field trips, complete assigned readings and write several reviews and research papers and give oral presentations about research. Students will produce a photographic portfolio of 20 photographs by the end of the semester. NOTE: It is recommended that students take an art history course prior to enrolling in PHO 305. NOTE: This course has a material fee.
Prerequisites: PHO 201 and a minimum of one PHO 200-level course or permission of photography coordinator

PHO 307 Art Digital Printing
4 hours; 3 credits
To further the understanding and control of digital color in making high quality fine art prints. Making exhibition-quality digital prints takes time and expertise. Students learn ways to bring out detail and fine-tune color and contrast in specific areas of an image to improve its overall quality. Topics include masking techniques, blending mode options, advanced sharpening techniques, noise reduction methods, and various means of retouching. A hands-on interactive approach with shared print production and class critiques will enable students to build a final portfolio that is both aesthetically and technically cohesive. This class will introduce large-scale printing. We recommend that students take PHO 220 or PHO 230 prior to enrolling. NOTE: This course has a material fee.
Prerequisite: PHO 101 and PHO 201

PHO 314 Contemporary Issues in Photography (Also ART 314)
4 hours; 4 credits
This course will investigate contemporary issues in photography from aesthetic, arthistorical, and philosophical perspectives. It will be team-taught by an art historian and photographer. Students are strongly advised to take ART 303 prior to enrolling. NOTE: This course has a material fee.
Prerequisites: ART 100 or ART 200 or ART 201 or PHO 220 and ENG 151

PHO 315 Visiting Artist Workshop
4 hours; 3 credits
This course will consist of three individual workshops with fine arts photographers who will each teach a four-to-five-week segment. Students will get acquainted with their work and have the opportunity to have in-depth discussions with the artists about their motivation, research, procedure, and execution processes used in creating their respective bodies of work. Students will be introduced to specific technical processes, readings, and theoretical concepts that each artist considers fundamental to his/her work process. Each workshop will conclude with a visual assignment that addresses the specific issues and techniques discussed. This course may be repeated for credit. NOTE: This course has a material fee.
Prerequisites: PHO 201 and PHO 220

PHO 320 The Photographic Portfolio
4 hours; 3 credits
Goals and marketing for photography. The definition and preparation of a personal photographic portfolio. A survey of ideas leading to a photographic direction, and the techniques necessary to realize the portfolio needed to pursue that direction. This course may be repeated for credit. NOTE: This course has a material fee.
Prerequisite: Any 200-level PHO course

PHO 360 Studio Photography II
4 hours; 3 credits
Methodology of producing pictures under totally controlled conditions. Lighting and camera techniques for portraiture, still life, and illustrations will be stressed. Both artistic concerns and professional studio practices are covered. NOTE: This course has a material fee.
Prerequisite: PHO 250

PHO 365 Conceptual and Aesthetic Concerns of Image Making – Photography III
4 hours; 4 credits
An appreciation of the intellectual bases of photographic works and their theoretical ramifications. Furthermore, it will expand the student’s critical and aesthetic understanding of the photographic image beyond the standard silver gelatin print. The course shall provide students with the intellectual tools to develop their own individual work and to critically determine if they have done so in a
meaningful and substantial manner. Students will study a spectrum of motivations and expressions that exist in the field of photography and apply the gained knowledge to their work. NOTE: This course has a material fee.

Prerequisites: PHO 201 and any other 200-level PHO course

**Physical Education**

Department of Nursing, Marcus Hall (5S), Room 213

Chairperson: Associate Professor Arlene Farren

PED 190  **Fitness for Life**

2 hours; 1 credit

This course is designed to inform students about current issues and practices in fitness and wellness. It combines theory and practice in lectures and physical activities to enable students to plan for a healthy independent future.

Prerequisite: Current medical examination on file with the College Health Center.

**Physics**

(Bachelor of Science, Minor)

Department of Engineering Science and Physics, Building 1N, Room 226

Chairperson and Professor Neophytos (Neo) Antoniades

**Physics (BS)**

**Pre-Major Requirements:** 32-35 credits

Students planning to major in Physics must complete the following pre-major requirements. These courses may also be used to satisfy general education requirements.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 120</td>
<td>General Physics I 3 credits</td>
</tr>
<tr>
<td>PHY 121</td>
<td>General Physics I Laboratory 1 credit</td>
</tr>
<tr>
<td>PHY 160</td>
<td>General Physics II 3 credits</td>
</tr>
<tr>
<td>PHY 161</td>
<td>General Physics II Laboratory 1 credit</td>
</tr>
<tr>
<td>PHY 240</td>
<td>Waves and Modern Physics 3 credits</td>
</tr>
<tr>
<td>PHY 250</td>
<td>Engineering Mechanics 3 credits</td>
</tr>
<tr>
<td>MTH 229</td>
<td>Calculus Computer Laboratory 1 credit</td>
</tr>
<tr>
<td>MTH 230</td>
<td>Calculus I with Pre-Calculus 6 credits</td>
</tr>
<tr>
<td>MTH 231</td>
<td>Analytic Geometry and Calculus I 3 credits</td>
</tr>
<tr>
<td>MTH 232</td>
<td>Analytic Geometry and Calculus II 3 credits</td>
</tr>
<tr>
<td>MTH 233</td>
<td>Analytic Geometry and Calculus III 3 credits</td>
</tr>
<tr>
<td>MTH 229</td>
<td>Calculus Computer Laboratory 1 credit</td>
</tr>
<tr>
<td>MTH 231*</td>
<td>Analytic Geometry and Calculus I 3 credits</td>
</tr>
<tr>
<td>MTH 232</td>
<td>Analytic Geometry and Calculus II 3 credits</td>
</tr>
<tr>
<td>MTH 233</td>
<td>Analytic Geometry and Calculus III 3 credits</td>
</tr>
<tr>
<td>MTH 229</td>
<td>Calculus Computer Laboratory 1 credit</td>
</tr>
<tr>
<td>MTH 235</td>
<td>Accelerated Calculus I 5 credits</td>
</tr>
<tr>
<td>MTH 236</td>
<td>Accelerated Calculus II 5 credits</td>
</tr>
<tr>
<td>CHM 141</td>
<td>General Chemistry I 3 credits</td>
</tr>
<tr>
<td>CHM 121</td>
<td>General Chemistry I Laboratory 1 credit</td>
</tr>
<tr>
<td>CHM 142</td>
<td>General Chemistry II 3 credits</td>
</tr>
<tr>
<td>CHM 127</td>
<td>General Chemistry II Laboratory 1 credit</td>
</tr>
</tbody>
</table>

**Students interested in pursuing a focus in Astrophysics** should take AST 105, AST 120, and AST 160, in consultation with an advisor, as part of the pre-major requirements.

**Major Requirements:** 48 credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH 330</td>
<td>Applied Mathematical Analysis I 4 credits</td>
</tr>
<tr>
<td>MTH 311</td>
<td>Probability Theory and an Introduction to Mathematical Statistics 4 credits</td>
</tr>
<tr>
<td>MTH 331</td>
<td>Applied Mathematical Analysis II 4 credits</td>
</tr>
<tr>
<td>PHY 310</td>
<td>Thermodynamics 4 credits</td>
</tr>
<tr>
<td>PHY 316</td>
<td>Dynamics 4 credits</td>
</tr>
<tr>
<td>PHY 356</td>
<td>Theory of Electromagnetic Radiation 4 credits</td>
</tr>
<tr>
<td>PHY 485</td>
<td>Properties of Materials 4 credits</td>
</tr>
<tr>
<td>PHY 309</td>
<td>Basic Measurements Laboratory 2 credits</td>
</tr>
<tr>
<td>PHY 315</td>
<td>Advanced Physics Laboratory 2 credits</td>
</tr>
<tr>
<td>PHY 442</td>
<td>Quantum Mechanics 4 credits</td>
</tr>
</tbody>
</table>

One advanced mathematics course at the 300 or 400 level 4 credits

Two advanced physics courses at the 300 or 400 level 8 credits

One but not both PHY 318 and PHY 381 may be used to satisfy this requirement.

**Students interested in pursuing a focus in Astrophysics should take AST 396 and PHY 425, in consultation with an advisor, as part of their major requirements.**

**Total Credits Required:** 120

**Honors in Physics:**

To graduate with Honors in Physics a student must meet the following requirements:

1. Fulfillment of all the requirements for the Physics degree;
2. An overall grade point average of 3.5 and a grade point average of 3.5 in the major;
3. A senior paper supervised by a mentor, and approved by the mentor and the Department Chair.

**Physics (7-12) (BS)**

**Pathways General Education Requirements:** 42 Credits

**Pathways Required Core:** 12 credits

- Required English Composition Requirement (RECR)
  - ENG 111  Introduction to College Writing 3 credits

- ENG 151  College Writing 3 credits

**Required Mathematical and Quantitative Reasoning Requirement (RMQR)**

Students are required to complete the following course:

- MTH 231  Analytic Geometry and Calculus I 3 credits

**NOTE:** Students may be required to take a prerequisite for MTH 231.

**Required Life and Physical Sciences Requirement (RLPR)**
Students are required to complete the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 120*</td>
<td>General Physics I</td>
<td>3</td>
</tr>
<tr>
<td>PHY 160*</td>
<td>General Physics II</td>
<td>3</td>
</tr>
<tr>
<td>PHY 240*</td>
<td>Waves and Modern Physics</td>
<td>3</td>
</tr>
</tbody>
</table>

Pathways Flexible Core: 18 credits

Students may take no more than one course from any area and no more than two courses from any discipline or interdisciplinary field in the Flexible Core.

Flexible U.S. Experience in its Diversity Requirement (FUSR)

Students are required to complete the following course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COR 100</td>
<td>United States: Issues, Ideas, and Institutions</td>
<td>3</td>
</tr>
</tbody>
</table>

Flexible Scientific World Requirement (FSWR)

Students are required to complete the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 160*</td>
<td>General Physics II</td>
<td>3</td>
</tr>
<tr>
<td>PHY 240*</td>
<td>Waves and Modern Physics</td>
<td>3</td>
</tr>
</tbody>
</table>

Flexible Individual and Society Requirement (FISR)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 100</td>
<td>Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

Flexible World Cultures and Global Issues Requirement (FWGR)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
</table>

Flexible Creative Expression Requirement (FCER)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
</table>

College Option

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Area</th>
<th>Course No.</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Social Science</td>
<td>EDP 220</td>
<td>Special Educational Needs of People with Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>Science</td>
<td>PHY 121</td>
<td>General Physics I Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>Science</td>
<td>PHY 161</td>
<td>General Physics II Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>STEM</td>
<td>MTH 232</td>
<td>Analytic Geometry and Calculus II</td>
<td>3</td>
</tr>
<tr>
<td>STEM</td>
<td>CSC 126**</td>
<td>Introduction to Computer Science</td>
<td>4</td>
</tr>
</tbody>
</table>

*Also fulfills pre-major requirements.
**Also fulfills major requirements.

Note: This program has received a waiver to specify particular courses students must take in the areas of the Common Core and Scientific World) and College Option. If students take different courses in these areas, they will be certified as having completed the Common Core and the College Option area, but it may not be possible for them to finish their degree program within the regular number of credits.

Pre-Major Requirements: 33 credits

Students planning to major in Physics 7-12 must complete the following pre-major requirements. These courses may also be used to satisfy general education requirements.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 120</td>
<td>General Physics I</td>
<td>3</td>
</tr>
<tr>
<td>PHY 121</td>
<td>General Physics I Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>PHY 160</td>
<td>General Physics II</td>
<td>3</td>
</tr>
<tr>
<td>PHY 161</td>
<td>General Physics II Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIO 170</td>
<td>General Biology I</td>
<td>3</td>
</tr>
<tr>
<td>BIO 171</td>
<td>General Biology I Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CHM 141</td>
<td>General Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHM 121</td>
<td>General Chemistry I Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CHM 142</td>
<td>General Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHM 127</td>
<td>General Chemistry II Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>PHY 240</td>
<td>Waves and Modern Physics</td>
<td>3</td>
</tr>
<tr>
<td>MTH 229</td>
<td>Calculus Computer Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>MTH 231</td>
<td>Analytic Geometry and Calculus I</td>
<td>3</td>
</tr>
<tr>
<td>MTH 232</td>
<td>Analytic Geometry and Calculus II</td>
<td>3</td>
</tr>
<tr>
<td>MTH 233</td>
<td>Analytic Geometry and Calculus III</td>
<td>3</td>
</tr>
</tbody>
</table>

Major Requirements: 42 credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 126</td>
<td>Introduction to Computer Science</td>
<td>4</td>
</tr>
<tr>
<td>MTH 330</td>
<td>Applied Mathematical Analysis I</td>
<td>4</td>
</tr>
<tr>
<td>MTH 311</td>
<td>Probability Theory and an Introduction to Mathematical Statistics</td>
<td>4</td>
</tr>
<tr>
<td>PHY 310</td>
<td>Thermodynamics</td>
<td>4</td>
</tr>
<tr>
<td>PHY 309</td>
<td>Basic Measurements Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>PHY 316</td>
<td>Dynamics</td>
<td>4</td>
</tr>
<tr>
<td>PHY 356</td>
<td>Theory of Electromagnetic Radiation</td>
<td>4</td>
</tr>
<tr>
<td>PHY 381</td>
<td>History of Modern Physics</td>
<td>4</td>
</tr>
<tr>
<td>PHY 425</td>
<td>Astrophysics</td>
<td>4</td>
</tr>
<tr>
<td>PHY 442</td>
<td>Quantum Mechanics</td>
<td>4</td>
</tr>
<tr>
<td>PHY 485</td>
<td>Properties of Materials</td>
<td>4</td>
</tr>
</tbody>
</table>

Education Sequence: 24 credits

For admission and continuation in the adolescence education sequence and all adolescence education courses students must have a minimum cumulative GPA of 3.0.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDS 201</td>
<td>Social Foundations of Secondary Education</td>
<td>4</td>
</tr>
<tr>
<td>EDS 202</td>
<td>Psychological Foundations of Secondary Education</td>
<td>4</td>
</tr>
<tr>
<td>EDS 304</td>
<td>The Pedagogy of Secondary School in Science</td>
<td>4</td>
</tr>
<tr>
<td>EDS 318</td>
<td>The Secondary School Curriculum in Science</td>
<td>4</td>
</tr>
<tr>
<td>EDS 400</td>
<td>Student Teaching in Secondary Education</td>
<td>4</td>
</tr>
<tr>
<td>EDS 401</td>
<td>Reflection and Analysis in Student Teaching in Secondary Education</td>
<td>2</td>
</tr>
</tbody>
</table>

See the Catalog section on Education for additional requirements.

Total Credits Required: 120

Honors in Physics:

To graduate with Honors in Physics a student must meet the following requirements:

1. Fulfillment of all the requirements for the Physics degree.
2. An overall grade point average of 3.5 and a grade point average of 3.5 in the major.
3. A senior paper supervised by a mentor, and approved by the mentor and the Department Chair.

**Physics Minor**
Pre-Minor requirements:

A. Mathematics

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH 231</td>
<td>Analytic Geometry and Calculus I</td>
<td>3</td>
</tr>
<tr>
<td>MTH 232</td>
<td>Analytic Geometry and Calculus II</td>
<td>3</td>
</tr>
<tr>
<td>MTH 233</td>
<td>Analytic Geometry and Calculus III</td>
<td>3</td>
</tr>
<tr>
<td>MTH 330</td>
<td>Applied Mathematical Analysis I</td>
<td>4</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MTH 334</td>
<td>Differential Equations</td>
<td>4</td>
</tr>
</tbody>
</table>

B. Physics

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 120</td>
<td>General Physics I</td>
<td>3</td>
</tr>
<tr>
<td>PHY 121</td>
<td>General Physics I Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>PHY 160</td>
<td>General Physics II</td>
<td>3</td>
</tr>
<tr>
<td>PHY 161</td>
<td>General Physics II Laboratory</td>
<td>1</td>
</tr>
</tbody>
</table>

Minor Requirements: 25 credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 240</td>
<td>Waves and Modern Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHY 309/</td>
<td>Basic Measurements Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>ENS 249</td>
<td>Thermodynamics</td>
<td>4</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHM 330</td>
<td>Physical Chemistry: Equilibria</td>
<td>4</td>
</tr>
<tr>
<td>PHY 356</td>
<td>Theory of Electromagnetic Radiation</td>
<td>4</td>
</tr>
<tr>
<td>PHY 442</td>
<td>Quantum Mechanics</td>
<td>4</td>
</tr>
<tr>
<td>Electives (300-400 level)</td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Alternatively, choose two courses from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 312</td>
<td>Nuclear Physics</td>
<td>4</td>
</tr>
<tr>
<td>PHY 316</td>
<td>Dynamics</td>
<td>4</td>
</tr>
<tr>
<td>PHY 360</td>
<td>Relativity</td>
<td>4</td>
</tr>
<tr>
<td>PHY 365</td>
<td>Optics</td>
<td>4</td>
</tr>
<tr>
<td>PHY 425</td>
<td>Astrophysics</td>
<td>4</td>
</tr>
<tr>
<td>PHY 463</td>
<td>Introduction to Nanotechnology</td>
<td>4</td>
</tr>
<tr>
<td>PHY 485</td>
<td>Properties of Materials</td>
<td>4</td>
</tr>
</tbody>
</table>

At least 12 credits of the requirements listed above may not be used to satisfy a requirement for another major or minor.

**Physics Courses**

**PHY 102** Sound and Light
3 class hours, 2 laboratory hours; 4 credits

Study of sources, transmission, and reception of sound and light. Application to music, art, and photography. Topics to be discussed will include the general nature of waves, optical and musical instruments, pigments, physics of seeing and hearing, and other related subjects.

Prerequisite: MTH 015 or MTH 020 or an appropriate score on the CUNY Mathematics Assessment Test

**PHY 103** Matter and Antimatter
3 class hours, 2 laboratory hours; 4 credits

A study of the elementary particles in the universe. Interactions, symmetries, accelerators, and cosmic rays. Designed for non-science students.

Prerequisite: MTH 015 or MTH 020 or an appropriate score on the CUNY Mathematics Assessment Test

**PHY 105** Galileo to Newton and Beyond
3 class hours, 2 laboratory hours; 4 credits

A presentation of traditional physics that considers its historical development. The coverage of topics is traditional: mechanics, fluids, and heat; taking into account the innovative contributions of the major figures in physics. Readings in the original literature in English translation will be required.

Prerequisites: MTH 015 or MTH 020 or an appropriate score on the CUNY Assessment Test in Mathematics, Reading and Writing.

**PHY 107** Maxwell to Einstein and Beyond
3 hours; 3 credits

A presentation of traditional physics that takes into account its historical development. The coverage of topics is traditional: electricity and magnetism; waves, light, and modern physics; taking into account the innovative contributions of the major figures in these areas of physics.

Prerequisites: MTH 030 or higher or an appropriate score on the CUNY Assessment Test in Mathematics

**PHY 110** College Physics I
3 hours; 3 credits

Non-calculus physics for technology students. Units, vectors, uniformly accelerated motion; forces, equilibrium, Newton's laws and applications; work energy, conservation laws, circular motion; temperature, expansion, heat capacity, thermal properties.

Pre- or corequisite: MTH 123 or Mathematics Department Examination

Corequisite: PHY 111

**PHY 111** College Physics I Laboratory
2 laboratory hours; 1 credit

Measurement, density, pendulum, vectors, free fall, projectiles acceleration, friction, Newton's laws, circular motion, collisions, energy, rigid body.

Note: This course has a material fee.

Corequisite: PHY 110

**PHY 114** Introduction to Physics
2 laboratory hours, 3 class hours; 4 credits

A quantitative survey of physics with emphasis on the scientific method. Topics covered are motion, energy, temperature and heat, electricity and magnetism, light, sound, atomic structure, and nuclear radiation. Not intended for Physical Science majors.

Prerequisite: MTH 015 or MTH 020 or an appropriate score on the CUNY Mathematics Assessment Test or MTH 108

**PHY 116** Physics I
3 class hours, 2 laboratory hours; 4 credits

Intended for Biology and Health Science majors. Weight, balance; forces and torques exerted by muscles; intro-
duction to motion and fluid flow; conservation of energy in animate and inanimate systems; energy consumption and metabolism; heat, gravitation, molecular potential energies; energy levels and transitions; binding and dissociation in large and small systems; free energy in chemistry and biology. Articulated experiments include mechanical systems simulating forces and torques in the human arm, energy conversion such as electrical energy to heat. (science) (FSWR) (STEM) NOTE: This course has a material fee.

**PHY 120** General Physics I
4 hours; 3 credits
Calculus-based physics for Science and Engineering majors. Vectors, forces, kinematics, Newton’s laws and applications, particle dynamics, work, energy, conservation laws, collisions, rotational dynamics, ideal gas, thermal properties, heat transfer, thermodynamics. (science) (RLPR) (STEM)

Pre- or corequisites: MTH 230 or MTH 231 or MTH 235, and PHY 121

**PHY 121** General Physics I Laboratory
2 laboratory hours; 1 credit
Measurement, pendulum, gravity, projectiles, force equilibria, acceleration, friction, energy, collisions, centripetal force, calorimetry, Boyle’s law. (science) (STEM) NOTE: This course has a material fee.

Corequisite: PHY 120

**PHY 150** College Physics II
3 hours; 3 credits
Non-calculus physics for technology students. Waves, sound, light, geometrical optics, mirrors, lenses, diffraction; electric charge, potential, capacitance, current, resistance, magnetism, induction. (science)

Prerequisite: PHY 110

Corequisite: PHY 151

**PHY 151** College Physics II Laboratory
2 laboratory hours; 1 credit
Standing waves, reflection, refraction, lenses, Millikan experiment, electric fields, capacitance, Ohm’s law, Wheatstone bridge, meters, magnetic field, AC circuits. (science) NOTE: This course has a material fee.

Corequisite: PHY 150

**PHY 153** Waves, Optics, and Modern Physics
3 class hours, 2 laboratory hours; 4 credits
Non-calculus physics for electrical technology students. Simple harmonic motion, wave motion, sound, light, optics, electric and magnetic fields, atomic and nuclear physics. (science) NOTE: This course has a material fee.

Prerequisite: PHY 110

**PHY 156** Physics II
3 class hours, 2 laboratory hours; 4 credits
Continuation of PHY 116 for students requiring one year of physics. Extension of the energy concept to atoms and electricity; nuclear energy and radioactivity; electricity as energy and information transfer in animate and inanimate systems; magnetism; mass spectroscopy and its uses; light, with applications to the eye, the camera, microscopes, fiber-optical diagnostic instruments, and spectroscopy. Articulated experiments include optics, optical and mass spectroscopy, electricity, heat, instrumentation. (science) (FSWR) (STEM) NOTE: This course has a material fee.

Prerequisite: PHY 116

**PHY 160** General Physics II
4 hours; 3 credits
Calculus-based physics for Science and Engineering majors. Electrostatics, potential, Ohm’s law, resistance, capacitance, RC circuits, magnetism, induction, waves, and geometric optics. (science) (FSWR) (STEM)

Prerequisite: PHY 120

Corequisites: MTH 232 or MTH 236, and PHY 161

**PHY 161** General Physics II Laboratory
2 laboratory hours; 1 credit
Millikan experiment, electric fields, capacitance, Ohm’s law, Wheatstone bridge, DC circuits, meters, RC circuits, electron beams, CRO, AC circuits, standing waves, spectroscopy. (science) (STEM) NOTE: This course has a material fee.

Corequisite: PHY 160

**PHY 206** Nature of Physical Processes
(Also SLS 261)
3 class hours, 2 laboratory hours; 4 credits
A culturally oriented course and associated laboratory for liberal arts students who seek to deepen their understanding and appreciation of the style and status of modern physical inquiry. Topics will be drawn from Newtonian mechanics, quantum theory, relativity, and nuclear physics. NOTE: This course has a material fee.

Prerequisites: A minimum GPA of 3.0; MTH 025 or MTH 030 or an appropriate score on the Mathematics Department Placement Examination; and at least one Scientific Analysis course other than ELT, MET, or SCI courses.

**PHY 230** Physics for Engineers
6 hours; 4 credits
A review of the natural laws necessary for the understanding of engineering and applied problems. Included will be topics in classical mechanics, electricity and magnetism, and wave motion.

Prerequisite: PHY 150 or equivalent

Corequisite: ENS 200 or equivalent

**PHY 240** Waves and Modern Physics
4 hours; 3 credits
Calculus-based physics for Engineering and Physical Science majors. Wave mechanics, electromagnetic spectrum, radiation, photoelectric and Compton effects, spectra. Introductory quantum mechanics, harmonic oscillator, hydrogen atom, many-electron atoms, binding and energy bands in solids. (FSWR) (STEM)

Prerequisite: PHY 160 or 230

Pre- or corequisite: MTH 330

**PHY 250** Engineering Mechanics
(Also ENS 250)
3 hours; 3 credits
Three-dimensional vector algebra, equilibrium of force systems, static structures. Kinematics and dynamics of a particle; kinematics and dynamics of rigid bodies. Work, conservation of energy and momentum. Engineering applications of mechanics. (FSWR)
Prerequisites: PHY 120 and 121 or PHY 230
Pre- or corequisites: MTH 233 or MTH 236

**PHY 309 Basic Measurements Laboratory**  
(Also ENS 249)  
4 laboratory hours; 2 credits

Basic instrumentation and precise measurements in engineering applications. Design, construction, testing, and analysis of simple analog systems using the circuit design tools and simulation software. Comparison of measured data to simulated data and reconciliation of discrepancies is emphasized. (Non-liberal arts designation) NOTE: This course has a material fee.
Prerequisite: ENS 241 and ENG 111

**PHY 310 Thermodynamics**  
(Also ENS 310)  
4 hours; 4 credits

Prerequisite: PHY 160 or PHY 230

**PHY 312 Nuclear Physics**  
4 hours; 4 credits

Nuclear force, nuclear structure, applications of special relativity, nuclear reactions, radioactive decay. 
Prerequisite: PHY 240

**PHY 313 Computational Physics**  
4 hours; 4 credits

This upper division course is aimed to provide training in physics computational modeling, data analysis and computational thinking to well-motivated undergraduates in physics, chemistry/biochemistry, engineering and math. In addition, students will be given assignments/projects, which will be completed using the HPC facility. NOTE: Students may request permission of the instructor in order to enroll. Prerequisite: PHY 240 and (MTH 311 or MTH 331)

**PHY 315 Advanced Physics Laboratory**  
4 laboratory hours; 2 credits

Experiments in atomic absorption spectroscopy, fluids, mechanics, microwaves, optics, semiconductors, statistical physics, and turbulence.
Prerequisite: PHY 309

**PHY 316 Dynamics**  
(Also ENS 316)  
4 hours; 4 credits

Prerequisites: PHY 250 and CSC 270 or CSC 126
Pre- or corequisite: MTH 330

**PHY 318 The Scientific Revolution**  
4 hours; 4 credits

The history of physics from Galileo to Newton. Readings and study in the original literature.
Prerequisite: MTH 233 or MTH 236

**PHY 350 Transport Processes**  
(Also ENS 350)  
4 hours; 4 credits

Introduction to momentum, heat, and mass transfer. Introduction to continuous media, control volume formulation of conservation laws, momentum and energy consideration of fluid flow, heat transfer by conduction and radiation, mass diffusion, analogies and breakdown of analogies among momentum, heat, and mass transfer.
Prerequisites: PHY 310 and CSC 126
Pre- or corequisite: MTH 330

**PHY 356 Theory of Electromagnetic Radiation**  
(Also ENS 356)  
4 hours; 4 credits

This course is designed to give the student an understanding of the way in which electromagnetic waves are produced, propagated, scattered, and absorbed. Building on the knowledge obtained from an introductory treatment of electromagnetism, students proceed to a study of the Maxwell equations in differential form, of wave equation, energy transfer, and the behavior of waves at metallic and dielectric surfaces. Production of radiation by dipoles and its absorption. Antennas, wave guides, and other applications will be discussed.
Prerequisites: PHY 160 and CSC 270
Pre- or corequisite: MTH 330

**PHY 360 Relativity**  
4 hours; 4 credits

The principle of relativity, the Michelson-Morley experiment, the relativity of simultaneity, the relativity of length and time, the Lorentz transformation, relativistic momentum and energy, relativistic mechanics, relativistic electromagnetism, general relativity.
Prerequisite: PHY 240

**PHY 365 Optics**  
4 hours; 4 credits

Applications of Maxwell's equations, polarization, Fresnel equations, Fermat's principle, interaction of light with matter, nonlinear optical phenomena.
Prerequisites: PHY 240

**PHY 381 History of Modern Physics**  
4 hours; 4 credits

The history of modern physics. Selected topics from relativity, quantum theory, nuclear physics, solid state physics, and particle physics. Readings in the original literature.
Pre- or corequisite: PHY 240

**PHY 383 Electrical Properties of Materials**  
(Also ENS 383)  
3 hours; 3 credits
Electrons in atoms, electrons in crystals, contacts between materials and p-n junctions, bipolar transistors, optoelectronic devices, field-effect transistors, charge transfer devices, integrated circuits, solid state lasers. Photo cells and LEDs.
Prerequisites: PHY 240 and CSC 270

PHY 384  Mechanical Properties of Materials
(Also ENS 384)
3 hours; 3 credits
Prerequisites: PHY 310 and CSC 270

PHY 425  Astrophysics
4 hours; 4 credits
Applications of the major areas of physics in space-related fields. Random processes—the Boltzmann and Saha equations and thermodynamic applications; relativistic effects—Poynting-Robertson drag and synchrotron radiation; Electromagnetic-Faraday rotation, plasmas, and Compton effect; Quantum-Ionized hydrogen spectra, cosmic masers, and Compton effect; Quantum mechanics and optical properties of nanoscopic systems; (ii) engineering approaches in nano-electro-mechanics, nano-electronics, and nanophotonics; (iii) practical computer simulation and design of nanodevices; (iv) practical nanofabrication of rudimentary nanodevices with focused ion beams.
Prerequisites: ENS /PHY 485

PHY 426  Fluid Mechanics
(Also ENS 426)
3 hours; 3 credits
Prerequisite: PHY 410
Pre- or corequisite: MTH 330

PHY 442  Quantum Mechanics
4 hours; 4 credits
Schrödinger equation, solutions to barrier and well potentials, quantum harmonic oscillator, angular momentum and spin, perturbation theory, atomic structure and transitions.
Prerequisite: PHY 240

PHY 443  Applied Quantum Physics
4 hours; 4 credits
This upper division course is a continuation of PHY 442. Applications of quantum mechanics in modern technology will be studied quantitatively.
Prerequisite: PHY 442

PHY 450  Fluid Mechanics
(Also ENS 450)
4 hours; 4 credits
Fluid properties, fluid statics, buoyancy and stability, fluids in rigid-body motion. Basic fluid equations in differential and integral form, Navier-Stokes equation. Euler equation, Bernoulli equation, and engineering applications. Dimensional analysis and similitude. Internal incompressible viscous flow and flow measurement.
Prerequisite: PHY 310
Pre- or corequisite: MTH 330

PHY 463  Introduction to Nanotechnology
(Also ENS 463)
2 class hours, 4 laboratory hours; 4 credits
This is an introductory course on nanotechnology. It covers the physical basics of submicron and nano-size structures, methods, and materials of nanotechnology; characterization of nanostructures; and their industrial applications. The course covers (i) mechanical, electronic, and optical properties of nanoscopic systems; (ii) engineering approaches in nano-electro-mechanics, nano-electronics, and nanophotonics; (iii) practical computer simulation and design of nanodevices; (iv) practical nanofabrication of rudimentary nanodevices with focused ion beams.
Prerequisites: ENS /PHY 485

Political Science
(Bachelor of Arts, Dual Major with Philosophy, Minor)
Department of Political Science and Global Affairs
Chairperson and Professor Richard Flanagan
Marchi Hall (2N), Room 224

Political Science (BA)

Pre-Major Requirements: 6-7 credits
POL 100  American Government and Politics
OR
POL 235  The American Political System
AND
POL 103  Understanding the Political World: An Introduction to Political Science

Major Requirements: 36-44 credits
In addition to the pre-major requirement, 36 credits in Political Science, including 16 credits at the 300-level or above, and at least one course in each of the four sub-fields of political science (Political Theory, American Politics, Comparative Politics, and International Politics) at the 200-level or above.
1. Courses in Political Theory (POL 200-219, 300-319)
2. Courses in American Politics other than POL 235 (POL 220-234, 236-239, 320-339)
3. Courses in Comparative Politics (POL 240-259, 340-359)
4. Courses in International Politics (POL 260-279, 360-394)

Students must demonstrate either proficiency in a foreign language through the intermediate level, 213, or proficiency in research methods through successful completion of MTH 113 and POL 198.
NOTE: Political Science courses numbered above the 300-level, and Independent Study and Internship credit at the 500-level, apply toward the major, and, with the permission of a faculty advisor, can be used to satisfy the requirement that students take one course in each of the four subfields of political science.

Total Credits Required: 120

Honors
To graduate with honors in Political Science, a student must have a 3.5 grade point average in political science courses and must complete a thesis or research project determined by the student under the direction of a faculty sponsor.

Political Science Minor
Requirements: 22-23 credits
POL 100 American Government and Politics 3 hours; 3 credits
OR
POL 235 The American Political System 3-4 credits
AND
POL 103 Understanding the Political World 3 credits

An additional 16 credits of POL courses including at least one at the 300 level or higher.

Political Science Courses

POL 100 American Government and Politics
3 hours; 3 credits
A study of the structure and operations of the U.S. political system, the process of its evolution, the philosophical principles and theories on which it rests, the social pressures and forces operating on it. Not open to students who have taken POL/SLS 235. (social science) (FUSR)

POL 103 Understanding the Political World: An Introduction to Political Science
3 hours; 3 credits
An introduction to the world of politics and the fundamentals of political science. Major topics: the basics of politics: power, government, nation, state; forms of political behavior from democratic participation to revolutionary violence; political ideas and norms; varieties of democratic and non-democratic forms of government; politics and society; the global context of politics. (social science) (FWGR)

POL 198 Tools of the Trade: The Art and Science of Political Research
4 hours; 4 credits
An introduction to the social-scientific study of political phenomena. What tools and techniques do political scientists and analysts use to create knowledge? How should political arguments and data encountered in newspapers, policy reports, and journal articles be evaluated? Topics include the logic of the scientific method, research design, measurement of political concepts, research methods, data collection, case-study design and selection, statistical techniques for describing data, statistical inference, survey research, and qualitative research procedures. Criteria for evaluating sources and arguments in political research considered.
Prerequisites: POL 100 or POL 103 and (MTH 020 or an appropriate score on the CUNY Test in Mathematics)

POL 201 Early Political Theory
(Also PHL 200)
4 hours; 4 credits
Analysis of major ideas and concepts of Western political theory from the Greeks to Hobbes. Such questions as the ends of politics, the nature of citizenship, the extent and limits of political obligation, and the relationship between rulers and the ruled will be discussed. (social science) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111, COR 100

POL 202 Modern Political Theory
(Also PHL 202)
4 hours; 4 credits
The development of modern theories of the state, with emphasis on democracy and theories of representation, the forces underlying political change and revolution, and the growth of "collectivism." Such authors as Locke, Rousseau, Hegel, Mill, and Marx will be read. (social science) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111, COR 100

POL 204 American Political and Legal Thought
(Also PHL 204)
4 hours; 4 credits
A study of the political ideology dominating several periods of U.S. history, including the Puritan, revolutionary, pre-Civil War, populist, and New Deal eras. Analysis of the writing of at least one current theorist and one major legal philosopher. (social science) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111, COR 100

POL 218 Politics and the Novel
4 hours; 4 credits
An analysis of a number of 19th- and 20th-century novels dealing with the relationship of the individual to the political world. Writers such as Conrad, Stendhal, Malraux, and Mailer will be read and discussed.
Prerequisites: ENG 111, COR 100

POL 219 Politics, Cinema, Media
(Also CIN 204)
4 hours; 4 credits
Analyzes political and social aspects of cinema and media within historical and contemporary contexts. Possible topics include race, class, gender, ethnicity, globalization, colonialism, imperialism, and nationalism and its discontents, as they relate to cinema and the media. (arts & com.) (social science) (TALA) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111, COR 100

POL 221 The American Presidency
4 hours; 4 credits
A study of the executive branch of the federal government, including the U.S. presidency. The President's relations with Congress, political parties, and the cabinet.
POL 222  The American Legal System  
4 hours; 4 credits  
The role of law and the courts in U.S. society and the historical background and philosophical principles upon which the U.S. legal system is based. Examination of the powers and workings of courts, how judges and lawyers act, and how U.S. citizens are affected by the legal system. (social science) NOTE: This course satisfies the College Option.  
Prerequisites: ENG 111, COR 100

POL 223  Public Administration  
(Also MGT 223)  
4 hours; 4 credits  
Examination of the concepts in the execution of public policy. Relationships of administrative process to the executive, legislative bodies, the public, special interest groups, the clientele, and the courts. Considers personnel administration and administrative law and regulation. (social science) NOTE: This course satisfies the College Option.  
Prerequisites: ENG 111, COR 100

POL 227  Political Parties, Elections, and Interest Groups  
4 hours; 4 credits  
The role and significance of political parties and interest groups in the U.S. political process; the development, organization functions, the finances of U.S. political parties; campaigning and voting behavior, and the goals and techniques of the major formal and informal pressure groups that influence public policy in the United States.  
Prerequisites: ENG 111, COR 100

POL 229  Law, Justice, and Politics  
4 hours; 4 credits  
The course looks at law as a political instrument, politics in legislation, structure of politics, including government and political parties; surveys the basic documents of the U.S. judicial system. Current political events, national and local, are examined in the light of legal principles.  
Prerequisites: ENG 111, COR 100

POL 231  City Hall and Albany  
4 hours; 4 credits  
A study of New York City’s mayoralty, New York State’s governorship, the City and State legislatures, the interest groups and political parties to which these institutions are sometimes beholden, and the use and decline of patronage. Attention will be paid to City-State relations and to the financial problems and the racial-ethnic tensions that City and State must confront. Comparisons with other cities and states will be made. (social science) NOTE: This course satisfies the College Option.  
Prerequisites: ENG 111, COR 100

POL 233  CUNY Internship Program in New York Government and Politics I  
4 hours; 4 credits  
A program common to all the senior colleges of The City University that involves working eight hours a week for a public official, city agency, or public service organization. In addition, all students attend four seminars a month, one at the University’s graduate center and three at their own college. (social science) NOTE: This course satisfies the College Option.  
Prerequisites: Permission of the instructor, ENG 111, COR 100

POL 234  CUNY Internship Program in New York Government and Politics II  
4 hours; 4 credits  
A continuation of POL 233. (social science) NOTE: This course satisfies the College Option.  
Prerequisite: POL 233

POL 235  The American Political System  
(Also SLS 235)  
4 hours; 4 credits  
Study of major American political institutions: the Presidency, Congress, Supreme Court, bureaucracy, and the Democratic and Republican parties. The course will emphasize the extent to which actual workings of our political systems differ from, and are affected by, constitutional theory and legal rules and thus will discuss the impact of pressure groups and public opinion. It will also cover selected state and local political issues. (social science) Not open to students who have taken POL 100. NOTE: This course satisfies the College Option.  
Prerequisites: A minimum GPA of 3.0; ENG 111 and ENG 151, COR 100

POL 237  Criminal Courts and Defendants’ Rights  
4 hours; 4 credits  
This course deals with the purposes and aims of the criminal justice and the criminal court system. It examines law enforcement arraignments and bail, the legal profession, plea bargaining, and sentencing. The structure, concepts, and theories of criminal law are studied, and a comparison is made between the adversary and inquisitorial systems.  
Prerequisites: ENG 111, COR 100

POL 238  Criminal Law and Procedure  
4 hours; 4 credits  
An examination of the development, structure, and practice of the U.S. criminal justice system, focusing on criminal law, law enforcement, the courts, and corrections. Topics include theories and explanations of criminal behavior; ethical issues confronting prosecutors, defense attorneys, and judges; social problems with specific attention given to how these issues impact on the criminal justice system.  
Prerequisites: POL 100 and ENG 151

POL 240  Comparative Government  
4 hours; 4 credits  
An examination of contemporary political systems in the global context. Studies the nature of globalization; its effects on the nation-state; its impact on the political institutions, economic systems, and societies of the advanced liberal democracies, post-Communist, and developing...
POL 241 Western European Politics: United Kingdom, France, Italy, Germany
4 hours; 4 credits
An introduction to four Western European democracies, with the principal focus on the United Kingdom, France, Germany, and Italy. Student understanding of the democratic experience is broadened by comparing four different forms of democratic government, their relationship to market economies, their way of dealing with social diversity, their divergent solutions to social and economic problems. (social science) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111, COR 100

POL 244 From the Soviet Union to the Commonwealth of Independent States
4 hours; 4 credits
The development of the Soviet Union from the 1917 Revolution to the collapse of communism. Major topics: the historical and ideological foundations of the Soviet Union; the communist system in practice; the collapse of communism and the breakup of the Soviet Union into the Commonwealth of Independent States; the chances for democracy and a market economy in Russia and the newly independent republics. (social science) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111, COR 100

POL 246 Nazism and The Holocaust
4 hours; 4 credits
An examination of the political, moral, and legal problems arising out of the extermination of the European Jews. The course will study the rise of Nazism, the construction of a totalitarian society, the terror apparatus, the institution of the concentration camp, and the planning and implementation of the killing process. There will be further examination of the responses of the Jews, the Allies, neutrals, and important institutions like the church and the Red Cross. At all points the question will be asked: What does this phenomenon reveal about the nature of modern society and modern politics? (social science) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111, COR 100; sophomore standing

POL 250 Latin American Politics
4 hours; 4 credits
This course provides an introduction to Latin American political systems and the relationships among the region’s governments and its citizens. Particular emphasis is placed on challenges to democratization, legacies of authoritarianism and dictatorship, and ethnic, linguistic, and racial diversity.
Prerequisites: Passing the CUNY Reading and Writing Assessment Tests

POL 251 International Political Economy
(Also ECO 251)
4 hours; 4 credits
This course examines the relationships among nation-states, corporations, and key international trade and financial organizations in today’s global environment. It also examines how globalization and world politics affect distribution of economic wealth and, in turn, how economic growth changes affect world politics and the global order. (social science) (cont. wld.) (p&d) NOTE: This course satisfies the College Option.
Prerequisites: At least one political science or economics course, ENG 151, COR 100

POL 252 Middle East Politics
4 hours; 4 credits
This course analyzes various stages of regional and international relations in the Middle East from the conclusion of World War II to the present. The course will also provide an introduction to the domestic politics of the region’s most important countries, paying special attention to the religious, cultural, and ideological uniqueness of the modern Middle East. (social science) (p&d) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111, COR 100; sophomore standing

POL 253 African Politics
(Also AAD 253)
4 hours; 4 credits
An examination of the colonial and post-colonial problems of Africa, and the developmental process in general. Other topics to be discussed include the sociopolitical and historical-philosophical appeal of communism to Africa; ideology, strategy, and the communist model of development; and the idea of revolution as an agent of rapid transformation versus the Euro-American model of evolutionary change. (social science) (p&d) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111, COR 100

POL 256 East Asian Politics
4 hours; 4 credits
This course examines the transformation of China, Japan, and other Southeast Asian countries since World War II, focusing on their historical development and more recent experiences of revolutionary turmoil. It compares the different paths to modernization taken by these countries, differences in their economic and political systems, and the economic, cultural, ideological, and political changes they have undergone in the contemporary period. Global importance and foreign policies of these countries will also be analyzed. (social science) (cont. wld.) (p&d) NOTE: This course satisfies the College Option.
Prerequisites: ENG 151, COR 100

POL 259 International Security
4 hours; 4 credits
This course examines conceptions of security comparing traditional and contemporary understandings of international security including, human security. The course discusses the causes, conduct, and consequences of international conflict, while also recognizing other sources of insecurity such as the environment, education, and health. Topics in the course include causes of inter-state war and intra-state conflict, weapons of mass destruction, new wars, terrorism, economic security, and
environmental security. The class studies these topics with reference to representative contemporary cases. (social science) (cont. wld.) NOTE: This course satisfies the College Option. Prerequisites: ENG 151, COR 100

POL 260 International Politics: In Search of a New World Order
4 hours; 4 credits
An analysis of the political and economic problems of the world today. The emphasis is on current trends in international relations, problems of war and peace, globalization, and prospects for the development of a new world order or global chaos. (social science) (cont. wld.) NOTE: This course satisfies the College Option. Prerequisites: ENG 151, COR 100

POL 261 International Organizations
4 hours; 4 credits
Examines how international organizations (intergovernmental, non-governmental, supranational, regional, functionally specialized) shape and are shaped by the contemporary global order. Special emphasis on the structures and functions of the United Nations, regional organizations (e.g., EEU, Organization of American States, Arab League, ASEAN), and the WTO. (social science) (cont. wld.) NOTE: This course satisfies the College Option. Prerequisites: ENG 151, COR 100

POL 264 Political Geography
(Also GEG 264)
4 hours; 4 credits
All politics are embedded in geographical space. This course examines the ways in which people have territorially arranged the Earth’s surface, internal and external relationships of politically organized areas, the effects of political actions on social and economic conditions, and the significance of geographical factors behind political situations, problems, and conflicts within and between different territories. (social science) (cont. wld.) NOTE: This course satisfies the College Option. Prerequisites: ENG 151, COR 100

POL 303 Recent Political Theory
(Also PHL 303)
4 hours; 4 credits
An examination of leading works in political theory of the late 19th and 20th centuries. The central theme will be the attacks on and the reaffirmations of liberal democratic thought. Discussion of problems of order and violence, social and political revolutions, and democratic processes. Readings will be drawn from original works in political theory by writers such as Arendt, Dewey, Freud, Hayek, Lenin, Marx, and Sorel. Prerequisites: Sophomore standing and any 100-level political science or philosophy course

POL 307 History of Legal Thought
(Also PHL 307)
4 hours; 4 credits
An analysis of the writings of major legal philosophers from classical times to the present. Writers to be studied include Aristotle, Cicero, Aquinas, Austin, Savigny, Cardozo, and Holmes. Prerequisites: Sophomore standing and any political science or philosophy course

POL 310 Political Sociology
4 hours; 4 credits
A discussion of key issues dealing with understanding political and social structure and the distribution of power in society. Such problems as personality, elites, leadership, political culture, power, legitimacy, consensus, and political change will be discussed. Prerequisites: Sophomore standing or any 100-level POL or PHL course

POL 316 The Politics of Evil
4 hours; 4 credits
The development of the concept of evil in modern political thought. The emphasis is on its role in defining a just political order. Readings are based on Voltaire, Nietzsche, Freud, and the Critical Theorists. The purpose is to give perspective to the meaning of the malice and terror which define us today with a political understanding of what evil tells us and has told us about ourselves. Prerequisites: POL 100 or POL 103 and a 200-level POL course

POL 317 Revolutions and Revolutionaries
4 hours; 4 credits
The character of revolutions as states of exception and their constitution as state power. Focusing on three transformative revolutions—the American, Russian, and Chinese Revolutions—the emphasis is on the justification for the seizures of power and their underlying legitimacy for state institutions. This should lead to a more complete understanding of contemporary revolutions. Prerequisites: POL 100 or POL 103 and a 200-level POL course

POL 320 The Judiciary in Politics
4 hours; 4 credits
An examination of judicial processes and politics in the United States with a focus on the relationship among strategies of legal mobilization, law, and public policy. The course starts with political theorist Alexis de Tocqueville's observation that "there is hardly a political question in the United States which does not sooner or later turn into a judicial one." The role and effectiveness of the courts and judges as policymakers, and the role of the courts in the policy implementation process will be considered. The central goal of this seminar is to familiarize students with some of the theoretical frameworks and the analytical skills they need to make sense of the exceptional role of law and courts in American political life. Prerequisites: POL 100 or POL 235; ENG 151; Sophomore standing

POL 321 Race, Law and Public Policy in the Contemporary United States
Also (AAD 321)
4 hours; 4 credits
An examination of race relations in the United States through the prism of law and the courts. In 1903, W.E.B. DuBois wrote: "The problem of the twentieth century is
the problem of the color line." This course examines questions such as: How does race matter today? Does the struggle for racial justice persist? Should the government use racial categories in the pursuit of equality? Policy areas to be studied include school desegregation and the problem of urban education, employment discrimination and equal opportunity in the workplace, among other topics.

Prerequisites: POL 100 or POL 235; ENG 151, Sophomore standing

POL 323 Public Policy Analysis
(Also MGT 323)
4 hours; 4 credits
A study of how government deals with problems in such areas as health, energy, environment, education, crime, and economic stability. In addition to focusing on substantive policies in these fields, the course will examine how problems come to government’s attention and analyze various techniques for determining whether a governmental program is successful.
Prerequisite: POL 100 or ECO 101

POL 325 Storming Washington: Presidential and Congressional Elections
4 hours; 4 credits
An examination of United States congressional and presidential campaigns and elections, including electoral rules, the primary selection process, the role of the media and interest groups, campaign organization and finance, candidate strategy, and the linkages that elections forge between citizens and political leaders.
Prerequisites: POL 100 and ENG 151; junior or senior standing

POL 330 Legal Philosophy
(Also PHL 331)
4 hours; 4 credits
The nature of legal principles and, in particular, their application to moral and political life. Such topics as freedom of speech, the control of sexual behavior, the distribution of property and income, punishment, the morality of war, the choice of political means. Particular attention will be paid to the question of the extent to which the state should employ the technique of law in enforcing the community’s moral and political principles.
Prerequisite: At least one 200-level course in philosophy or two POL courses

POL 331 Law and Economics
(Also ECO 331)
4 hours; 4 credits
Fundamental concepts of economics, especially efficiency, will be utilized to explain and evaluate legal rulings. The tools of economics will be employed to analyze not only tort, contract, and property principles, but also marriage and divorce law, criminal law, and constitutional issues such as abortion, the death penalty, and racial and gender-based discrimination.
Prerequisites: ECO 101 or ECO 111 or ECO 112; BUS 160 or any two POL courses

POL 335 Internships in New York State Government
12 credits
Students spend an entire semester in Albany interning for the New York State Senate, New York State Assembly, or an interest group dealing with the New York State legislature. Internship duties average 35 hours a week and may include research, memoranda and bill writing, lobbying, talking with lobbyists, and meeting constituents. All students write a term paper of 12 to 15 pages based upon their experiences and assigned readings. Students interning for the State Assembly must attend a course on New York State politics given by a professional social scientist employed by the Assembly. Majors in Political Science may apply these 12 credits toward their major. Minors in Political Science may apply eight of these credits toward their minor.
Prerequisites: Sophomore standing, permission of the instructor, prior acceptance by the internship program

POL 336 American Constitutional Law
4 hours; 4 credits
An examination of how the Supreme Court has interpreted the economic and military powers of the federal government, how it deals with state attempts to regulate business, and how it has resolved disputes about the proper jurisdiction of the three branches of the federal government. The problems facing the U.S. court systems and the variables affecting the formulation of judicial policy are considered.
Prerequisite: Sophomore standing

POL 338 Civil Rights and Liberties
4 hours; 4 credits
A normative and empirical analysis of the behavior and decisions of the Supreme Court in the area of civil rights and liberties. Emphasis on freedom of speech and association, church-state relations, racial problems, and the rights of the criminal defendant. (social science) (p&d)
Note: This course satisfies the College Option.
Prerequisite: Sophomore standing

POL 340 Uniting Europe: The Political Economy of the European Union
4 hours; 4 credits
The course focuses on the post-1945 movement toward the economic, monetary, and political union of European states. It examines the origins of European integration, the evolution from a six-nation common market in the 1950s to a single European market with a common currency. Analyzes the European Union’s distinctive political system—its governing institutions, policy process, party politics, the problems created by expanding membership, persisting tensions between national and European interests—as well as Europe’s external relations and role as global actor.
Prerequisite: A college-level course in political science, preferably POL 240

POL 341 The Politics of the New Germany
4 hours; 4 credits
This course examines Germany’s political development after 1945. Major topics: formation of East and West Germany as two distinctive political systems; the collapse
of communist East Germany; German unification and its domestic as well as external impact; united Germany’s new international role.
Prerequisite: Sophomore standing

POL 342 Comparative Politics of Developing Countries
4 hours; 4 credits
A study of political systems of developing countries; some theories and problems of political and economic development. Countries in Latin America, Africa, and Southeast Asia will be studied as examples. (social science) (p&d) NOTE: This course satisfies the College Option.
Prerequisite: A previous college-level course in politics or economics. POL 240 is recommended.

POL 343 Democracy and Democratization
4 hours; 4 credits
Designed to examine the social, economic, and political conditions needed for democracy to emerge; the nature and problems of transitions to democracy in different settings; the difficulties of consolidating democracies; why democracies survive or break down. The original emergence of democracy will be compared to recent democratic transitions in Southern Europe, former communist nations, and the Third World.
Prerequisite: Sophomore standing

POL 349 Comparative Human Rights
4 hours; 4 credits
A comparison of how human rights are conceptualized and protected in various Western and non-Western nations. The focus will be on such rights as speech, religion, fair trial, and equitable treatment of ethnic and racial minorities in countries such as Canada, the United Kingdom, India, Russia, South Africa, Nigeria, Israel, and China. (social science) (p&d) NOTE: This course satisfies the College Option.
Prerequisite: POL 100 or POL 240 or POL 336 or POL 338

POL 353 China: Politics and Foreign Relations
4 hours; 4 credits
A discussion of basic institutions and major issues in contemporary Chinese politics and China’s behavior both at home and internationally. It examines the communist revolution and its aftermath in China, and political development under Mao Zedong; but the focus of this course is on the policies (both internal and foreign), process, and problems of the changing communist system in China under the post-Mao reforms. (social science) (p&d) NOTE: This course satisfies the College Option.
Prerequisites: Sophomore standing and ENG 111

POL 364 International Negotiations and Conflict Management
4 hours; 4 credits
An examination of strategies and tactics of international negotiations and conflict management. This course aims to provide the students with hands-on experience in international negotiation and foreign policy decision-making in an effort to illustrate the problems and possibilities of international interactions. Students will participate in an online negotiation simulation and in-class negotiations exercises.
Prerequisite: POL 260; ENG 151

POL 365 Current American Foreign Policy
4 hours; 4 credits
An analysis of the historical roots of U.S. foreign policy: how it is made, how it affects the average U.S. citizen, and how it is likely to develop. Includes an examination of the Cold War, Vietnam, military alliances, the United States in the United Nations, and American policy in the multipolar world of today.
Prerequisite: POL 100 or POL 260 or POL 261 or POL 262

POL 371 Terrorism
4 hours; 4 credits
An examination of terrorism as a form of political action; the causes and consequences of terrorism, and the strategy and tactics of terrorists. Various counterterrorism security approaches will be explored, as well as attempts to find patterns and trends in the incidence of domestic and international terrorism. The course will review prospects for the future as they relate to terrorism. (social science) NOTE: This course satisfies the College Option.
Prerequisite: POL 160 or POL 260 and an additional POL course at the 200 level of above

POL 375 International Law
4 hours; 4 credits
A study of the nature and sources of international law, tracing its historical development, and concluding with a discussion of recent proposals to strengthen world law and recent events that have made international law more enforceable. Some time will be devoted to an analysis of the work of international tribunals, including the International Court of Justice.
Prerequisite: Sophomore standing

POL 394 CUNY World Affairs Internship
4 hours; 4 credits
A program common to all the senior colleges of The City University that involves working eight to ten hours a week for an international or domestic governmental agency or non-governmental organization involved with international affairs. In addition, all students attend four seminars per month, one at the University’s Graduate Center and three at their own college.
Prerequisites: Junior or senior standing, POL 260, and permission of the instructor

POL 490 Senior Seminar in Political Science, Economics, Philosophy, and Geography
(Also ECO 490/PHL 490/GEG 490 )
4 hours; 4 credits
Selected topics in which ideas and approaches from economics, political science, philosophy, and geography either mesh or collide will be explored. Required of all students expecting to graduate with honors in Political Science, Economics, Philosophy, or Geography, but not limited to these students.

Prerequisites: Senior standing, and completion of at least 16 credits in intermediate and advanced social science courses, and permission of the instructor.

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**Preparation for Professional School**

**Pre-Medical Advisory Committee**

Students interested in pre-medical, pre-dental, pre-optometry should consult the Pre-Medical Advisory Committee, chaired by Associate Professor Dan McCloskey, Department of Psychology, as soon as possible after enrolling in the College. The Committee will advise students about their choice of courses starting with the freshman year. A student guide for the Pre-Medical Advisory Committee letter of recommendation is available from the Office of the Dean of Health Sciences.

**Pre-Chiropractic Preparation**

Chiropractic schools in the United States do not require or recommend any particular undergraduate major for applicants.

Most schools suggest that they study in depth any of the liberal arts and sciences which are valuable preparation for chiropractic medicine studies. All programs in chiropractic medicine require a strong foundation in the natural sciences (biology, chemistry, physics, and mathematics), effective communication skills, and a solid background in the social sciences and humanities. Some chiropractic programs have established admissions criteria and additional recommendations. It is important for students to choose appropriate courses to prepare for admission to professional schools. Since pre-chiropractic requirements vary, students should become familiar with the recommendations of the schools to which they intend to apply. The minimum pre-professional requirements for admission to a chiropractic program in the United States are: one year of English, biology with laboratories, general physics with laboratories, and general chemistry and organic chemistry with laboratories. Also recommended are at least one year of advanced mathematics, and one or more advanced courses in science. Most chiropractic schools evaluate college grades as the most important determinant of admission to a chiropractic program. Also considered are letters of recommendation, research experience, extracurricular activities, work-related experience, required essay, and personal interview.

For detailed information, consult the Pre-Medical Advisory Committee.

**Pre-Dentistry Preparation**

Dental schools in the United States do not require or recommend any particular field of study as an undergraduate major for applicants. Most schools suggest that they study in depth any of the liberal arts and sciences which are valuable preparation for dentistry. Some dental schools have established admissions criteria and additional recommendations. It is important for pre-dental students to choose appropriate courses to prepare for admission to dental school. Students should become familiar with the recommendations of the schools to which they intend to apply. The minimum requirements for admission to dental schools in the United States are: one year of English, biology with laboratories (may include a half-year of genetics and a half-year of botany), general physics with laboratories, and organic chemistry with laboratories. Also recommended are at least one year of advanced mathematics, and one or more advanced courses in science, sociological, and psychology.

All applicants to dental schools in the United States must participate in the Dental College Admission Testing Program and take the Dental College Admissions Test (DAT). The four examinations that comprise the testing program cover: principles of biology, general chemistry, organic chemistry; perceptual ability; reading comprehension; and quantitative reasoning. Most dental schools use the DAT scores, evaluated in conjunction with college grades, as predictors of performance in dental school. DAT scores and college transcripts are the most important determinants of admission to dental school. Also considered are letters of recommendation, extracurricular activities, work-related experience, required essay, and personal interview.

For detailed information, consult the Pre-Medical Advisory Committee.

**Pre-Medicine Preparation**

Medical schools in the United States do not require or recommend any particular undergraduate major for applicants. Most schools suggest that they study in depth any of the liberal arts and sciences which are valuable preparation for medical studies. All medical schools require a strong foundation in the natural sciences (biology, chemistry, physics, and mathematics), effective communication skills, and a solid background in the social sciences and humanities. Some medical schools have established admissions criteria and additional recommendations. It is important for pre-medication students to choose appropriate courses to prepare for admission to medical school. Students should become familiar with the recommendations of the schools to which they intend to apply. The minimum requirements for admission to medical schools in the United States are: one year of English, general biology with laboratories, general chemistry with laboratories, general physics with laboratories, and organic chemistry with laboratories. Also recommended are at least one year of advanced mathematics, including calculus, and one or more advanced courses in science.

All applicants to medical schools in the United States must take the Medical College Admission Test (MCAT). The four areas tested are: verbal reasoning, physical sciences, biological sciences, and writing. Most medical schools use the MCAT scores, evaluated in conjunction with college grades, as predictors of performance in medical school. MCAT scores and college transcripts are the most important determinants of admission to medical school. Also considered are a letter of...
recommendation from the College’s pre-medical advisory committee, research experience, extracurricular activities, work-related experience, required essay, and personal interview.

In recent years, graduates of CSI have been admitted to medical schools throughout the region including: Albert Einstein, SUNY Upstate and Downstate, Harvard, Cornell, New York University, Buffalo, Baltimore, Albany, Stony Brook, and Mount Sinai.

For detailed information, consult the Pre-Medical Advisory Committee.

Pre-Optometry Preparation
The College of Staten Island has an affiliation agreement with the State University of New York College of Optometry, located in Manhattan. The foundation of this affiliation is a seven-year program that allows students to complete their baccalaureate and professional studies through three years of study at CSI followed by the four-year Optometry program at the College of Optometry. The bachelor’s degree is awarded after one year of successful study in the optometry program.

The minimum pre-optometry requirements are: one year of general biology, general physics, general chemistry, social science; one year of calculus (I & II), English composition and literature, one semester of general psychology, organic chemistry, and statistics.

In addition, a student must maintain a 3.2 grade point average, achieve a score of 320 on the Optometry Admissions Test, and have a successful personal interview.

For detailed information, consult the Pre-Medical Advisory Committee.

Pre-Law Preparation
Recommended preparation for the study of law includes study of the social sciences, the humanities, and the technological aspects of contemporary life, as well as mastery of the English language. There is no particular Pre-Law curriculum. Students should consult the faculty advisor early in the planning of their program. The Law School Admission Test, required by most law schools, should be taken early in the senior year. Associate Professor Michael Paris, Department of Political Science and Global Affairs, is the pre-law advisor.

Pre-Speech Disorders
Students interested in future careers related to Speech Disorders/Pathology should consult with the Linguistics Concentration Advisors in the English Department (Professors Jason Bishop and Christina Tortora), who will advise students about their choice of courses in this field of study.

Psychology
(Bachelor of Arts, Bachelor of Science, Minor)
Department of Psychology, Building 4S, Room 108
Chairperson and Professor Betram Ploog
(See the Graduate Catalog for information on graduate programs.)

Psychology (BA)
Degree Requirements for the Psychology BA
Pre-Major Requirements: 7 credits
PSY 100 Psychology
MTH 123 College Algebra and Trigonometry or higher (except MTH 217/MTH 218)
A minimum grade of C is required in both PSY 100 and MTH 123 or higher (except MTH 217/MTH 218). Students will be allowed to repeat courses, if necessary.

Major Requirements: 38-42 credits
Effective Fall 2015 for entry, continuation, and graduation from the Bachelor of Arts in Psychology, students must have at minimum 2.5 grade point average (GPA). Psychology majors must complete:

A. PSY 201 Foundations of Psychological Research 4 credits
PSY 266 Statistics in Psychology 4 credits
PSY 352 History and Systems of Psychology 4 credits
and a psychology laboratory course chosen from:
PSY 330 Experimental Psychology: Cognition and Perception 6 credits
OR
PSY 335 Experimental Psychology: Child Development 6 credits
OR
PSY 334 Experimental Psychology: Social and Personality 6 credits
OR
PSY 335 Experimental Psychology: Social and Personality 6 credits

B. Twenty additional credits in psychology at the 200 level or higher including at least four credits at the 300 or 400 level. Courses should be chosen in consultation with an advisor in accordance with student goals. PSY 594 may be used once to satisfy the 300 or 400 level requirement.

C. Foreign Language Requirement 0-4 credits
Demonstration of proficiency in a foreign language through the intermediate level, 213 or above.

Electives: 33-37 credits
Total Credits Required: 120
PSY 103, 211, 340, and 368 are non-liberal arts and science courses.

Honors
To graduate with honors in Psychology, students must have and maintain a 3.5 grade point average in their psychology courses. They must also complete an honors thesis under the supervision of a Psychology faculty member. Typically, these are research projects that span more than one semester of work. These are graded by the supervisor (pass/fail) based on the feedback received by two other faculty readers. The department as a whole votes to confer honors on students at the April department meeting. It is expected that these will be presented at a suitable research conference or the
annual CSI Undergraduate Research Conference. To meet these deadlines, the final thesis must be completed by April 1 for June or August graduation, and November 1 for January graduation.

**Psychology (BS)**

**Degree Requirements for the Psychology BS**
(Recommended for Pre-Neuroscience, Pre-Medicine, and Pre-Physical Therapy students)

**Pre-Major Requirements:** 7 credits

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PSY 100</td>
<td>Psychology</td>
<td>3</td>
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<tr>
<td>MTH 123</td>
<td>College Algebra and Trigonometry</td>
<td>4</td>
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<tr>
<td>or higher (except MTH 217/MTH 218).</td>
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A minimum grade of C is required in both PSY 100 and MTH 123 or higher (except MTH 217/MTH 218). Students will be allowed to repeat the courses, if necessary.

**Major Requirements: 42 credits**

Effective Fall 2015 for entry, continuation, and graduation from the Bachelor of Science in Psychology, students must have a least a 2.5 grade point average (GPA).

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<tr>
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<tr>
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</tr>
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B.  

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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PSY 242</td>
<td>Developmental Psychology</td>
<td>4</td>
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and one course in Physiological Psychology

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<tr>
<th>Course</th>
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<th>Credits</th>
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<tr>
<td>PSY 232</td>
<td>Physiological Psychology: Cognitive and Behavioral Neuroscience</td>
<td>4</td>
</tr>
<tr>
<td>PSY 239</td>
<td>Motivated Behavior</td>
<td>4</td>
</tr>
<tr>
<td>PSY 385</td>
<td>Psychology of Memory</td>
<td>4</td>
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C.  

A psychology laboratory course chosen from:

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<tr>
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<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PSY 330</td>
<td>Experimental Psychology: Cognition and Perception</td>
<td>6</td>
</tr>
<tr>
<td>PSY 333</td>
<td>Experimental Psychology: Learning and Behavior</td>
<td>6</td>
</tr>
<tr>
<td>PSY 334</td>
<td>Experimental Psychology: Social and Personality</td>
<td>6</td>
</tr>
<tr>
<td>PSY 335</td>
<td>Experimental Psychology: Child Development</td>
<td>6</td>
</tr>
</tbody>
</table>

D. Twelve additional credits in psychology at the 200-level of higher. These additional 12 credits must include at least four credits at the 300- or 400-level. Courses should be chosen in consultation with an advisor in accordance with student goals for graduate study.

**Electives:** 37 credits

**Total Credits Required:** 120

**Honors**
To graduate with honors in Psychology, students must have and maintain a 3.5 grade point average in their psychology courses. They must also complete an honors thesis under the supervision of a Psychology faculty member. Typically, these are research projects that span more than one semester of work. These are graded by the supervisor (pass/fail) based on the feedback received by two other faculty readers. The department as a whole votes to confer honors on students at the April department meeting. It is expected that these will be presented at a suitable research conference or the annual CSI Undergraduate Research Conference. To meet these deadlines, the final thesis must be completed by April 1 for June or August graduation, and November 1 for January graduation.

**Psychology Minor**

Pre-minor requirement

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<tr>
<td>PSY 100</td>
<td>Psychology</td>
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Requirements: 16 credits

Any four PSY courses at the 200 level or higher.

**Psychology Courses**

**PSY 100  Psychology**

3 hours; 3 credits

A study of the important facts and theories concerning human behavior and its motivation. Included will be research methodology; at least three topics from learning, cognition, testing, physiology, and phenomenology; and at least three topics from personality, psychopathology, emotion and motivation, history and systems, development, and social factors. Topics will be related to major trends in recent cultural history and to current social and moral issues. (social science) (FISR)

Prerequisite: Passing the CUNY Assessment Test in Reading and Writing

**PSY 103  Stress: Understanding and Management**

(Also SKO 103)

3 hours; 3 credits

A comprehensive presentation of the physical, social, and psychological understanding of the human stress response. Opportunities for students to learn concrete sci-
entific insights, practical stress management skills, and beneficial relaxation techniques are offered.
Prerequisite: Passing the CUNY Assessment Test in Reading and Writing

PSY 201 Foundations of Psychological Research
4 hours; 4 credits
An introduction to the methods of psychological research. Comparison, evaluation, and illustration of research methods such as survey, case study, questionnaire, interview, experiential, correlational, and experimental using a broad range of psychological topics such as physiological, developmental, learning, perception, personality, social, clinical, and industrial. Research design, data presentation and analysis, relation of data and theory, and ethical problems in research will be discussed. Majors should take the course within their first 12 credits in psychology.
Prerequisites: Minimum grade of C in PSY 100 and a minimum grade of C in MTH 123 or higher (except MTH 217/MTH 218). Students will be allowed to repeat the courses if necessary.

PSY 202 Psychopathology
4 hours; 4 credits
A study of the development, symptoms, prevention, and treatment of a wide variety of behavioral disorders including anxiety, depressive, personality, somatoform, and psychotic disorders. These and other disorders will be examined from a variety of theoretical perspectives. Equivalent to courses titled Abnormal Psychology. (social science) NOTE: This course satisfies the College Option.
Prerequisites: PSY 100, ENG 111, COR 100

PSY 203 Child Psychopathology
4 hours; 4 Credits
An investigation into psychological disorders of children. The course will emphasize research-based knowledge about the etiology, diagnosis, and treatment of childhood psychological disorders and highlight ethical and social issues involved. Major topics will include deviancy of development, behavior, emotion, learning, and communication.
Prerequisite: PSY 100

PSY 211 Methods of Applied Behavior Analysis (ABA)
4 hours; 4 credits
Introduction to the methods of applied behavior analysis (ABA). ABA is the application of the scientific study of behavior toward improved human well-being. Over many decades, it has been established as one of the most effective and cost-efficient technologies and therapies in clinical psychology, education, and behavior/organizational management. It has been helpful in particular for persons with developmental disabilities such as autism but also has been applied widely to ordinary daily life issues (e.g., work performance, family relations, self-help, and community services). This course follows the guidelines for courses to be approved by the Behavior Analyst Certification Board®. For this it will cover: defining and measuring behavior, treatment program development and evaluation, token economies, self-management techniques, and professional responsibilities and ethics. The course will focus on skill acquisition through hands-on experience.
Prerequisite: Successful completion of the CUNY Mathematics Assessment Test

PSY 212 Social Psychology
4 hours; 4 credits
Social psychology is the study of human social behavior viewed from an interpersonal perspective. The role of others in shaping self-concept will be explored as well as the formation of attitudes, attribution theory, the causes and methods of reducing prejudice, social influence and obedience, interpersonal attraction, aggression, altruism, and the development of gender roles and stereotypes, and nonverbal behavior. Research methods and results will serve as the context in which each topic will be discussed. (social science) NOTE: This course satisfies the College Option.
Prerequisite: PSY 100 and ENG 151

PSY 213 Cross-Cultural Psychology
4 hours; 4 credits
The pervasive role of culture in shaping behavior, thought, motivations, and emotions will be introduced. Various theories will be described that explain the transmission and modification of culture, the psychological outcomes of cultural transitions, and the behavioral and attributional errors that occur as a result of the lack of cultural understanding. Students will be exposed to various research methodologies and will utilize several of these analytic tools. Empirical findings will be applied to education, health care, and work settings. (social science) (p&d) (cont. wld.) NOTE: This course satisfies the College Option.
Prerequisites: PSY 100, ENG 151, COR 100

PSY 214 Psychological Perspectives on Disabilities
4 hours; 4 credits
Contributions of psychology to the study of disabilities will be discussed in a framework including physical, emotional, and cognitive disabilities. Topics may include the measurement of intelligence, eugenics, mental disorders, nomenclature and diagnosis, treatment methods, coping strategies, cross-cultural issues, and quality of life and activism of people with disabilities and their families. (social science) (p&d) NOTE: This course satisfies the College Option.
Prerequisites: PSY 100 and ENG 151

PSY 215 Drugs and Behavior
4 hours; 4 credits
An examination of the effects of psychoactive drugs (including alcohol, nicotine, and caffeine) on mood, motivation, thinking, and behavior. Emphasis is on the pharmacology, therapeutic potential, and side effects of these substances and how they aid brain function and mental disorders. The course also considers how drugs affect reproductive and neonatal health, and alternative non-drug treatments of mental disorders.
Prerequisite: PSY 100
PSY 217  Psychology and Chinese Culture
4 hours; 4 credits
An examination of the role of Chinese culture in shaping psychological concepts, thinking, and behavior, and of the growth of the discipline of academic psychology throughout the Chinese world. (social science) (p&d) NOTE: This course satisfies the College Option.
Prerequisite:  PSY 100 and COR 100 and ENG 151

PSY 223  Health Psychology
4 hours; 4 credits
Health psychology is the study of the relationships among cognition, behavior, social environment, and health. The class will focus on the interaction between social/psychological factors, stress, immunology, and diseases. There will be an emphasis on how health professionals can promote health-enhancing behaviors and modify health-compromising behaviors.
Pre- or corequisite:  PSY 100

PSY 225  Introduction to Forensic Psychology
4 hours; 4 credits
This course is intended to introduce students to a broad perspective of the field of forensic psychology and is designed to promote an understanding between psychology and law by showing how psychological research and theory can inform the legal process. This course will examine the roles and responsibilities of forensic psychologists in police work, criminal investigation, eyewitness identification, mental defenses and competency issues, sexual abuse issues, juvenile forensics, and death penalty cases. While the course is aimed at BREADTH rather than DEPTH, it does provide many resources and references on each topic, enabling students to inquire further into areas of interest.
Prerequisite:  PSY 100, ENG 151

PSY 226  Theories of Personality
4 hours; 4 credits
A survey of the important factors and theories underlying personality patterns, their origins, and development. Such topics as the review of major theories, integration and conflict, and the development of personality in childhood and adolescence. Emphasis on experimental, clinical, and cross-cultural data with special attention to case studies. (social science) NOTE: This course satisfies the College Option.
Prerequisites:  PSY 100, ENG 111, COR 100

PSY 232  Physiological Psychology: Cognitive and Behavioral Neuroscience
4 hours; 4 credits
A study of the brain-behavior relationship with focus on neuroanatomy, neuronal potentials, neuronal conduction, synaptic chemistry, sensory psychophysiology, learning and memory, language, and lateralization.
Prerequisite:  PSY 100

PSY 235  Gender and Sexuality
(Also WGS 235)
4 hours; 4 credits
A critical examination of the way in which human sexual functioning has been viewed by both women and men. Critical consideration of theories of sexuality in psychology, including psychoanalytic, evolutionary, social constructionist, and feminist theories of sexuality. Evaluation of recent research on AIDS/HIV, lesbian and gay issues, sexual violence against women, and sex education. Special attention to cultural factors that influence women’s and men’s understandings of their sexuality and of other sexually transmissible diseases. Present problems and practices as well as future possibilities will be discussed. (social science) (p&d) NOTE: This course satisfies the College Option.
Prerequisite:  PSY 100

PSY 239  Physiological Psychology: Motivated Behavior
4 hours; 4 credits
A study of the nervous system mechanisms that operate in the control of feeding, drinking, sexual and reproductive behavior, temperature regulation, sleep and dreaming, wakefulness, attention, and psychopathology.
Prerequisite:  PSY 100

PSY 242  Developmental Psychology
4 hours; 4 credits
A survey of psychological growth and development with emphasis on developmental tasks distinguishing successive life stages. Patterns of intellectual growth, psychological growth under different social-cultural conditions, personality, and social development will be considered. (social science) NOTE: This course satisfies the College Option.
Prerequisites:  PSY 100, ENG 111, COR 100

PSY 266  Statistics in Psychology
4 hours; 4 credits
A study of statistical methods most commonly used in psychology. Descriptive techniques including the measurement of central tendency, dispersion, and association as well as inferential techniques including the analysis of differences among groups will be considered, as will parametric and nonparametric techniques.
Prerequisites:  Minimum grade of C in PSY 201; and a minimum grade of C in MTH 123 or higher (except MTH 217/MTH 218). Students will be allowed to repeat the courses if necessary.

PSY 268  Psychology of Women
(Also WGS 268)
4 hours; 4 credits
A critical review of theories and issues concerning the psychology of women. Theories of gender including biological, psychoanalytic, and social learning, among others will be discussed. Issues particularly relevant to the lives of women and to the psychology of gender will be explored, including gender stereotypes, physical and mental health issues, sexuality, personal relationships, and violence against women. (social science) (p&d) NOTE: This course satisfies the College Option.
Prerequisite:  PSY 100

PSY 280  Psychology of Religion
4 hours; 4 credits
A review of the positions that various psychologists have taken regarding the function of religious experience in human life. Included are viewpoints that deny the validity
of such experience (e.g., Freud and Watson, as well as those who believe it is of central importance, e.g., James, Jung, Allport, Maslow, Frankl, and Watts). The probable nature of the function of religious experience is explored. A discussion of the truth value of religions is outside the scope of this course.

Prerequisite: ENG 151, COR 100, PSY 100

**PSY 288  Cognitive Psychology**

4 hours; 4 credits

Cognitive psychology encompasses a broad range of topics related to higher mental processes, including such areas as research methodology, brain physiology, learning, memory, and language. This course is designed as an introduction to the field of study in cognition. Through lectures, demonstrations, and video presentations, several objectives will be met. Students will learn about the important issues and debates in cognitive psychology, how to apply this knowledge to real-world situations, how to critically evaluate research and ongoing debates in cognitive psychology, and to develop critical thinking skills. Readings, writing assignments, and tests will all reflect these objectives. (social science) NOTE: This course satisfies the College Option.

Prerequisites: ENG 111 and COR 100

**PSY 315  Psychology and the Law**

4 hours; 4 credits

This course will examine the interface of psychology and the law. Social science impacts of the legal process and psychologists are increasingly being asked to participate by providing knowledge to this system. This course examines the breadth of this participation and the application of psychological science to the American justice system. Sample topic areas include use of psychologists as expert witnesses, legal competence, jury consulting/selection, the insanity defense, and predictions of dangerousness.

Prerequisite: PSY 202

**PSY 322  Industrial Psychology**

4 hours; 4 credits

A study of the application of psychological principles to business and industry. Topics discussed will include personnel selection and placement, employee and public relations, analysis and design of the work environment, organizational psychology.

Prerequisite: PSY 266

**PSY 324  Environmental Psychology**

4 hours; 4 credits

The study of the dynamic relationship between individuals and the natural and built environment. This course will introduce students to the ecological view of psychological issues and the methods used to research and analyze person-environment transactions. In-class assignments and exercises will promote the analysis of the psychological dimension of issues such as personal space, crowding, privacy, territoriality, wayfinding, place attachment, building design, and energy conservation, among others. Conservation psychology and the psychology of environmental problems will also be addressed.

Prerequisite: PSY 201

**PSY 330  Experimental Psychology: Cognition and Perception**

6 credits; 4 class hours, 4 laboratory hours;

A laboratory course introducing basic findings and techniques in the scientific study of behavior. Topics discussed will include research design, data analysis and presentation, and research in cognition and perception. In the laboratory, students will collect and analyze data from representative areas of psychology and write laboratory reports in APA format.

Prerequisites: Minimum grade of C in PSY 266; PSY 288 or PSY 232 or PSY 239

**PSY 332  Psychological Tests and Measurements**

4 hours; 4 credits

Introduction to test construction and application: item analysis, reliability, validity, establishing norms, and scoring procedures. A survey of available tests is undertaken: intelligence, aptitude, achievement, personality. Special problems in test administration and interpretation are considered.

Prerequisite: PSY 266

**PSY 333  Experimental Psychology: Learning and Behavior**

4 class hours, 4 laboratory hours; 6 credits

Basic principles of behavior analysis will be taught in a systematic fashion and applied to the analysis of simple and complex animal and human behavior. Students also conduct experiments designed to illustrate basic concepts in learning theory and principles of scientific methodology as appropriate for experimental psychology. Acquisition and analysis of experimental data and relating empirical data to theoretical concepts will be emphasized. Laboratory reports are written in APA format.

Prerequisite: Minimum grade of C in PSY 266

**PSY 334  Experimental Psychology: Social and Personality**

6 credits; 4 class hours, 4 laboratory hours;

This laboratory course introduces basic findings and techniques in the study of social behavior and personality. It will review all phases of research including research design, ethics, data collection, analysis, and presentation, with a specific focus on current methods used in personality and social psychology. In the laboratory, students will design and complete group or individual research projects illustrative of the major topics covered, as well as a term-long major project.

Prerequisites: PSY 212 or PSY 226; and minimum grade of C in PSY 266

**PSY 335  Experimental Psychology: Child Development**

4 class hours, 4 laboratory hours; 6 credits

This laboratory course introduces basic findings and techniques in the study of developmental psychology. It
will review all phases of research including research design, ethics, data collection, analysis, and presentation, with a specific focus on current methods used to study the psychological development of children. In the laboratory, students will design and complete group research projects illustrative of the major topics covered, culminating in APA-style research papers.

Pre-requisites: PSY 242 and minimum grade of C in PSY 266

PSY 340 Mentoring and Adolescent Development
(Also WGS 340)
3 class hours, 2 fieldwork hours; 4 credits
Introduction to the developmental concerns and clinical skills needed to form mentoring relationships with at-risk adolescent populations. Course work entails review of the literature on mentoring as well as specific issues regarding adolescent development, with an emphasis on gender identity. Other topics addressed may include race, ethnicity, class, and sexual orientation. Students do on-site mentoring under faculty supervision and have the opportunity to evaluate these fieldwork experiences in class.
Prerequisites: Permission of the instructor, a minimum of 45 credits completed, and successful completion of PSY 226 or PSY 242

PSY 342 Language Development
4 hours; 4 credits
Research in social and cognitive processes involved in language development and early communication is explored. Topics include listening to speech in the first year of life, babbling, word learning, grammatical development, the critical period hypotheses, and developmental language disorders such as dyslexia and Specific Language Impairment.
Prerequisite: PSY 242

PSY 343 Infancy
4 hours; 4 credits
This course is concerned with how infants come to understand the world around them. Students will learn classic and current theoretical perspectives on infant development as well as methodologies and results from recent empirical papers. We will discuss what sort of evidence would provide a meaningful answer to the question of how learning occurs. Topics to be discussed include prenatal development, physical and motor development, and cognitive, perceptual, language, and emotional development.
Prerequisite: PSY 242

PSY 345 Motor Development
4 hours; 4 credits
A central goal for this class is to understand the psychological aspects of motor development. Over their first two years of life, babies’ bodies, skills, and environments change rapidly and dramatically. How do infants learn to cope with a changeable body in a variable world? In this class, we will discuss infant motor development in the context of traditionally separate domains of psychology—perceptual, cognitive, and social development.
Prerequisite: PSY 242

PSY 350 Prejudice and Social Identity
4 hours; 4 credits.
The relationship between prejudice, stereotyping, and social identity will be discussed. Social psychological research on prejudice in regard to areas such as ageism, gender, ethnicity, sexual orientation, and body weight will be reviewed. Students will be introduced to a variety of research paradigms in social psychology including cognitive, attitudinal, behavioral, social identity, feminist, and postmodern frameworks. Students will also gain research experience by conducting an interview and an observational study.
Prerequisite: PSY 212

PSY 352 History and Systems of Psychology
4 hours; 4 credits
Historical development of contemporary psychology including a critical survey of its chief contemporary systems: structuralism, functionalism, psychoanalysis, behaviorism, Gestalt psychology, and others.
Prerequisite: PSY 201 and eight additional PSY credits at the 200 level or higher

PSY 355 Contemporary Issues in Human Sexuality
(Also WGS 355)
4 hours; 4 credits
This course focuses on current issues in the psychological study of human sexuality, with an emphasis on social psychological perspectives. It will review contemporary debates in the psychological theory and research on human sexuality. It will begin with an overview of current theories, research methods, and issues related to the study of sexuality in psychology. It will then cover current controversies in the measurement of sexuality, theories of sexual desire, debates about sexual pathologies and treatments, the impact of technology on sexuality, and conclude with a few unresolved issues and future directions.
Prerequisites: PSY 235

PSY 362 Approaches to Psychotherapy
4 hours; 4 credits
Primary source readings in representative schools of psychotherapy. Undertaken are an evaluation, description, and comparison of major treatment theories and techniques (e.g., the rationale and methods involved in one-to-one therapy, group therapy, encounter and sensitivity groups, and counseling).
Prerequisite: PSY 202 or PSY 226

PSY 368 Counseling Psychology
3 class hours, 5 fieldwork hours; 5 credits
Introduction to the principles of counseling, psychological and philosophical issues in counseling, the interview and its role in counseling. This course includes five hours per week of fieldwork experience in a school guidance setting or another psychological service. Students must reserve one day per week for this fieldwork assignment.
Prerequisites: PSY 202 and permission of the instructor

PSY 385 Psychology of Memory
4 hours; 4 credits
This course will bring together two major cognitive psychology approaches to studying memory, theoretical and applied. The theoretical topics will cover the history of research on memory; classical laboratory research on short-term, working, and long-term memory; and memory impairments. The applied topics will include memory in everyday life, memory and the law, and memory improvement. Prerequisite: PSY 288 or PSY 232

PSY 390 Evolutionary Psychology
4 hours; 4 credits
Overview of the scientific perspective of evolutionary psychology, which investigates psychological mechanisms from the standpoint that they arise from the function of the brain, which has been shaped by the process of biological evolution. The course covers the basic principles of biological evolution and addresses the evolutionary forces that are likely to have influenced the development of specialized psychological mechanisms such as individual survival, reproduction, group/social living, and biological constraints on learning (ontogeny). The course will also cover emerging topics in evolutionary psychology such as the development of culture and the potential role of memes in manipulating human behavior. Prerequisites: PSY 201

PSY 398 Internship in Psychology
2 lecture hours, 8 internship hours; 4 credits
An undergraduate field-based experiential course that allows students to integrate an academic (2-hour weekly) class with an 8-hour weekly work experience in an internship setting. Students observe professionals to obtain experiences within the social service agency, school, psychiatry, industrial organization, applied social psychology, research, cross-cultural training, developmental, and other psychology career-related settings. This 4-credit course is designed for upper level junior and senior students to expose them to professional roles in psychology-related professions including: professional responsibilities, skills development, and ethics. Students need the approval of the instructor to register for the class. Prerequisites: PSY 202 or PSY 226, upper junior standing

PSY 416 Group Dynamics
4 hours; 4 credits
Group experience as a path to effective interpersonal relationships. The course aims to provide an understanding of the nature of group goal setting and leadership training. Explored are one’s attitudes toward oneself and their relationship to ethnic groups and social action. A variety of encounter techniques will be used to achieve course aims. Prerequisites: At least 12 credits of psychology courses numbered 200 or higher, including at least two from PSY 202, PSY 212, PSY 226, PSY 362

PSY 420 Advanced Seminar in Psychology
4 hours; 4 credits
Critical study of a selected area of psychology. Students will be encouraged to work on experimental, theoretical, and applied problems. Prerequisite: Permission of the instructor

PSY 464 Applied Behavior Analysis
4 hours; 4 credits
Introduction to the methods and theory of applied behavior analysis with a special focus on individuals with developmental disabilities. Topics include, but are not limited to, classical and operant conditioning, reinforcement theory, schedules of reinforcement, stimulus control, single-subject design, development of treatment programs, assessment procedures, data analysis, token economies, and professional responsibilities and ethics. All students will receive supervised experience in behavior modification settings using the principles of Applied Behavior Analysis. Prerequisite: PSY 333

PSY 480 Advanced Learning and Behavior
4 hours; 4 credits
Behavioral principles will be related to complex processes such as attention, memory, and concept formation. Students will read and discuss relevant literature, design and conduct research projects related to the subject matter, and write reports describing the results of projects. Prerequisites: At least three of the following courses: PSY 242, PSY 266, PSY 288, PSY 330, PSY 333;

PSY 591-4 Psychology Independent Study
Students interested in Independent Study must make arrangements with a full-time faculty member to sponsor the project. Applications for Independent Study will be accepted at the faculty member's discretion and by permission of the professor only. Arrangements for Independent Study must be made during the semester before the student wishes to enroll in these courses and must be approved by the faculty sponsor and the chairperson of the department or coordinator of the program. Students can register for 1 (591) to 4 (594) credits. Students are required to spend at least three hours of work per week. No more than nine credits of Independent Study will be accepted toward the 60+ credits required for the associate's degree; no more than 15 credits of Independent Study and Internship coursework will be accepted toward the 120+ credits for the baccalaureate degree. Registration for Independent Study courses must be completed within the first three weeks of the semester.

PSY 598 Psychology Internship
Internships are experiences in a work situation that integrate an academic area of study with work experience. Courses designated Internships are individual, non-classroom, extended learning projects. They require: an on-site supervisor as well as a full-time faculty member as project sponsor; a daily log of activities, an assigned reading list or preparation of a relevant bibliography; and, a final paper that summarizes the way in which goals were achieved and demonstrates the relationship of academic material to the work done during the
Internship students may not receive credit for paid employment unless they demonstrate the relationship of an appropriate body of academic material to the work required in their employment. Credit for Internships (595=1 credit, 596=2 credits, 597=3 credits, 598=4 credits) is awarded for work experience related to an academic program, not for performing a job. Students must have at least one introductory course or equivalent experience in an area as a prerequisite to Internships. Internship students are expected to spend at least two hours per week per credit at the on-site location and at least one additional hour per week per credit in reading, study, and preparation. No more than nine credits of Independent Study and Internship coursework will be accepted toward the 60+ credits required for the associate’s degree; no more than 15 credits of Independent Study and Internship coursework will be accepted toward the 120+ credits for the baccalaureate degree. This internship course counts as a 200-level elective. Students interested in an Internship must make arrangements with a full-time faculty member to sponsor the project. Internship students also require an on-site supervisor to evaluate their project. The individuals involved will sign a contract stipulating the expectations for completion of the course, evaluation criteria, and awarding of credit. Arrangements for Internships must be made during the semester before the student wishes to enroll in these courses and must be approved by the faculty sponsor, on-site supervisor (where applicable), and the chairperson of the department or coordinator of the program. For Internships, at least one on-site visit must be made by the faculty sponsor during the semester. At this time a joint conference with all participants in the project will be held for evaluation. For all Internship students a meeting and an evaluation of progress with the faculty sponsor is expected at least bi-monthly. Registration for Internship courses must be completed within the first week of the semester.

Public Administration Minor

Interdisciplinary Program
Coordinators: Professor Richard Flanagan, Associate Professor Vasilios Petratos
Students in any major may minor in Public Administration.

Minor Requirements: 15-16 credits
Required courses:
Required courses:
- POL/MGT 223 Public Administration 4 credits
- SOC 274 Social Welfare 4 credits
NOTE: SOC 370 Urban Sociology may be substituted for SOC 274 with permission of a program coordinator.
- MGT 320 Management of Organizational Behavior 4 credits
- One course from the following list:
  - Economics
  - ECO 392 Urban Economics 4 credits
  - ECO 330 Public Finance 4 credits
  - ECO 338 Government and Business 4 credits
  - Management
  - MGT 322 Human Resource Administration 4 credits
  - SOC 380 Sociology of Organizations 4 credits
  - Government
  - POL 231 City Hall and Albany 4 credits
  - POL/MGT 323 Public Policy Analysis 4 credits
  - POL/MGT 339 Administrative Law 4 credits
  - HST 248 New York City: History and Problems 4 credits
  - HST 251 History of the U.S. City 4 credits
  - POL 233 CUNY Internship in New York Government and Politics I 4 credits
(or another internship for at least 3 credits)

Science, Letters, and Society

(Bachelor of Arts)
Interdisciplinary Program
Science, Letters, and Society Office, Building 3S, Room 202
Director, Associate Professor Cary Karacas, 2N, Room 230
Liaison with the School of Education, Dr. Margaret E. Bérci, Building (3S), Room 105b

The major in Science, Letters, and Society (SLS) is designed for students seeking an overview of the liberal arts and sciences rather than a specialization in a single discipline. It undertakes to present a unified view of the modern intellectual enterprise. Consequently, the program requires a balanced sequence of broadly conceived upper-level courses in the humanities, social sciences, mathematics, and science. The development of high levels of competence in reading and writing is particularly emphasized. For admission to and continuation in the major of Science, Letters, and Society, a minimum GPA of 3.0 is required.
SLS is the major ordinarily required of students seeking certification in early childhood and childhood education. These students receive academic advisement from both the coordinator of SLS and an advisor from the appropriate program in the School of Education. Issues relating to substitution of another liberal arts and sciences major for the SLS major must be referred to the SLS-Education Undergraduate Admissions and Standing Committee; students seeking to pursue a major other than SLS should write to the Committee, care of the Dean, School of Education, Building 3S, Room 208.

Science, Letters, and Society (BA)

For admission to and continuation in the major of Science, Letters, and Society a minimum cumulative GPA of 3.0 is required.

Pre-Major Requirements: 19 credits

PSY 100 Introduction to Psychology
(Fulfills prerequisite for Psychological Foundations of Education courses)

HST 260 U.S. History First Encounters to the Present

GEG 200-level A 200-level Geography course chosen from GEG 225, GEG 250, GEG/ECO 252, GEG/POL 264, GEG 260

ENH 200-level A 200-level English Literature (ENH) course that fulfills the Textual, Aesthetic, and Linguistic Analysis requirement.
(Fulfills prerequisites for SLS 301, SLS 302, SLS 303)

MTH 123 College Algebra and Trigonometry

Major Requirements: 36-40 credits

Natural Sciences and Mathematics: 16 credits in mathematics and the natural sciences:
SLS 217 Fundamentals of Mathematics I
SLS 218 Fundamentals of Mathematics II
SLS 261 Nature of Physical Processes
SLS 262 Life Science in Context

Humanities: 12 credits in the humanities:
SLS 301 Humanities I: Ancient Culture
SLS 302 Humanities II: Medieval and Early Modern Culture
SLS 303 Humanities III: Modern Culture

Social Sciences: 8 credits in the social sciences, history, and political science chosen from:
SLS 230 American Society
SLS 235 The American Political System
SLS 240 World Civilization I
SLS 241 World Civilization II
SLS 245 Contemporary Social Issues
SLS 325 Social Thought

Foreign Language Requirement: 0-4 credits
Demonstration of proficiency in a language through the intermediate level, 213 or above.

Note: Students with advanced preparation or appropriate transfer credits in one of the above areas of study may be permitted some substitution of courses in that area, if approved by the coordinator of the SLS program.

Total Credits Required: 120

Honors
Graduating SLS majors may apply for graduation with honors in SLS.
To graduate with honors a student must have:
1. Fulfilled the requirements for the SLS major
2. Earned a 3.5 grade point average or better in SLS courses
3. Completed an honors thesis to the satisfaction of his or her Honors Committee.

Successful honors projects are characterized by originality, depth, and critical thinking; many honors projects include research. Papers must be carefully proofread, and those including research must have accurate citations. Submissions must be typed in clear, letter-quality print and be free of comments by faculty members or others. The honors thesis should be a substantial paper or write-up of a significant research project supervised by a committee of three SLS and education faculty members: a primary supervisor, a reader, and a committee chair. This committee may be comprised entirely of SLS faculty, or may include an Education faculty member as the primary supervisor or the reader. The SLS coordinator will serve as the chair of all committees or appoint chairs as appropriate. The honors candidate may register for up to four credits of Independent Study with the primary supervisor, who will advise the candidate on a new project or on extending a project or paper previously submitted in a course. The SLS coordinator must approve all thesis proposals prior to the commencement of the project. Completed theses submitted to the Honors Committee Chair must have the signatures of both members of the candidate’s committee (the primary supervisor and the reader) on the title page.

Time frame: honors thesis proposals must be approved by the mid-term of the semester prior to the semester of graduation. Completed theses for majors graduating in January must be submitted to the SLS Office by November 20. Completed theses for majors graduating in June or August must be submitted by April 1.

Early Childhood (Birth-2) Education Sequence: 32 credits

This program is designed for students wishing to specialize in the education of children from birth to second grade. It provides the academic course content necessary for New York State certification at the early childhood level.

Students wishing to be recommended by the College for initial certification must successfully complete the following sequence of education courses, as well as the Science, Letters, and Society major. Students are encouraged to begin the Early Childhood sequence in the sophomore year. To complete the sequence when 45 credits have been completed, it must be started by the beginning of the junior year. For admission and continuation in the early childhood education sequence and
all early childhood courses students must have a minimum cumulative GPA of 3.0.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EDC 215</td>
<td>Psychological Foundations of Early Childhood</td>
<td>3</td>
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<tr>
<td>EDC 216</td>
<td>Social Foundations of Early Childhood</td>
<td>3</td>
</tr>
<tr>
<td>EDC 217</td>
<td>Affective Development of the Child</td>
<td>3</td>
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<tr>
<td>EDC 218</td>
<td>Language Development in Young Children and the Educational Process</td>
<td>3</td>
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<tr>
<td>EDC 310</td>
<td>The Teaching of Reading and Writing</td>
<td>3</td>
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<tr>
<td>EDC 332</td>
<td>Music in Early Childhood</td>
<td>3</td>
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<tr>
<td>EDC 340</td>
<td>Workshop in Mathematics and Science for Early Childhood</td>
<td>3</td>
</tr>
<tr>
<td>EDC 350</td>
<td>Fieldwork in Preschool Classrooms</td>
<td>2</td>
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<tr>
<td>EDC 360</td>
<td>Workshop in Social Studies</td>
<td>3</td>
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<tr>
<td>EDC 440</td>
<td>Student Teaching in Kindergarten and Early Primary Classrooms</td>
<td>4</td>
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<tr>
<td>EDC 402</td>
<td>Reflection and Analysis in Student Teaching (Early Childhood)</td>
<td>2</td>
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**Childhood (1-6) Education Sequence: 32 credits**

This program provides the academic course content necessary for New York State certification as a childhood teacher at the first- through sixth-grade level (1-6). Students wishing to be recommended by the College for certification must successfully complete the following sequence of childhood education courses, as well as the Science, Letters, and Society major. In addition, students are required to submit and orally present an exit program portfolio for evaluation and approval to the Education Department upon completion of the Education sequence. Students may enroll in the Childhood Education sequence once they have 45 total credits earned including three credits in psychology, six in the social sciences, and/or philosophy, and ENG 151 (four credits). For admission and continuation in the childhood education sequence and all childhood courses students must have a minimum cumulative GPA of 3.0.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>EDE 200</td>
<td>Social Foundations of Education</td>
<td>4</td>
</tr>
<tr>
<td>EDE 260</td>
<td>Psychological Foundations of Education</td>
<td>4</td>
</tr>
<tr>
<td>EDE 301</td>
<td>Literacy Development and Language Acquisition in Elementary Education</td>
<td>4</td>
</tr>
<tr>
<td>EDE 302</td>
<td>Social Studies, Art, Reading, and Language Arts in Elementary Education</td>
<td>6</td>
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<tr>
<td>EDE 303</td>
<td>Mathematics, Science, and Music in Elementary Education</td>
<td>6</td>
</tr>
<tr>
<td>EDE 400</td>
<td>Student Teaching in Elementary Education</td>
<td>6</td>
</tr>
<tr>
<td>EDE 402</td>
<td>Reflection and Analysis in Student Teaching (Early Childhood)</td>
<td>2</td>
</tr>
</tbody>
</table>

**Science, Letters, and Society Courses**

**SLS 217**  [Fundamentals of Mathematics I](#)  (Also MTH 217)
4 hours; 4 credits
A study of the conceptual basis of arithmetic operations on integers, decimals, and fractions designed for students seeking certification as elementary school teachers. Ideas behind familiar algorithms are explored using visual models, verbal problems, and other concrete representations. Emphasis is placed on students being able to provide verbal and written explanations for these ideas.
Prerequisites: A minimum GPA of 3.0 and MTH 123 or an appropriate score on the CUNY Mathematics Assessment Placement Test

**SLS 218**  [Fundamentals of Mathematics II](#)  (Also MTH 218)
4 hours; 4 credits
A study of geometry, data representation, probability, and statistics designed for students planning to teach at the elementary or early-childhood level, with an emphasis on mathematical reasoning, problem solving, and communication. Builds on and is a continuation of MTH/SLS 217.
Prerequisites: A minimum GPA of 3.0, MTH/SLS 217 with a grade of C or higher

**SLS 235**  [The American Political System](#)  (Also POL 235)
4 hours; 4 credits
Study of major U.S. political institutions—the Presidency, Congress, Supreme Court, bureaucracy, and the Democratic and Republican parties. The course will emphasize the extent to which the actual workings of our political systems differ from, and are affected by, constitutional theory and legal rules and thus will discuss the impact of pressure groups and public opinion. It will also cover selected state and local political issues. (social science) Not open to students who have taken POL 100. NOTE: This course satisfies the College Option.
Prerequisites: A minimum GPA of 3.0, ENG 111, ENG 151, COR 100

**SLS 240**  [World Civilization I](#)  (Also HST 238)
4 hours; 4 credits
A comparative study of the growth and development of the major global civilizations from earliest times to the onset of modernity. An overview of the development of civilizations, examining their structure and organization, characteristic ideas and institutions, and the processes of cultural diffusion and conflict within and between them. (social science) (p&d) NOTE: This course satisfies the College Option.
Prerequisites: A minimum GPA of 3.0, ENG 111, and ENG 151

**SLS 241**  [World Civilization II](#)  (Also HST 239)
4 hours; 4 credits
The growth and development of the major civilizations around the globe from the onset of modernity to present times, with particular attention to the changing relationships among global communities. (social science) (p&d)

NOTE: This course satisfies the College Option.
Prerequisites: A minimum GPA of 3.0, ENG 111, and ENG 151

SLS 245  Contemporary Social Issues
(Also SOC 245)
4 hours; 4 credits
A study of selected contemporary social problems such as poverty, criminal justice, ethnicity, or race relations from the perspectives of political science, economics, and sociology. The emphasis will be on urban problems. The course will explore the types of questions that might be raised about the topics by persons trained in the social sciences and will explore the methods used to answer such questions. Relationships between modes of inquiry, types of questions asked, and the answers obtained. An emphasis on developing the ability to read, understand, and think critically about writings in the social sciences. (social science) NOTE: This course satisfies the College Option.
Prerequisites: A minimum GPA of 3.0, ENG 111, ENG 151, COR 100

SLS 261  Nature of Physical Processes
(Also PHY 206)
3 class hours, 2 laboratory hours; 4 credits
A culturally oriented course and associated laboratory for liberal arts students who seek to deepen their understanding and appreciation of the style and status of modern physical inquiry. Topics will be drawn from Newtonian mechanics, quantum theory, relativity, and nuclear physics. NOTE: This course has a material fee.
Prerequisites: A minimum GPA of 3.0; MTH 025 or MTH 030 or an appropriate score on the Mathematics Department Placement Examination; and at least one Scientific Analysis course other than ELT, MET, or SCI courses

SLS 262  Life Science in Context
3 class hours, 2 laboratory hours; 4 credits
The connections among fundamental issues from the daily world with the respective underlying life-science concepts. It is integrated with and complements the Physical Processes course (SLS 261) by stimulating a perception of an interconnected nature. Through lectures and laboratory work, students will analyze concepts and phenomenon in nature such as the properties of air, pollutants, the chemistry of global warming, acid rain, plastics and polymers, nutrition, and genetic engineering. The course will develop the student’s independent problem/analysis skill while building a global awareness of chemical processes.
Prerequisites: A minimum GPA of 3.0; and a minimum grade of C in SLS 261

SLS 301  Humanities I: Ancient Culture
4 hours; 4 credits
A study of selected works from the literature, history, and philosophy of ancient civilization with some attention to the fine arts of the period.
Prerequisites: A minimum GPA of 3.0, ENG 111, ENG 151, and an ENH 200-level course

SLS 302  Humanities II: Medieval and Early Modern Culture
4 hours; 4 credits
A study of selected works from the literature, history, and philosophy of the medieval and early modern world, with some attention to the fine arts of the period.
Prerequisites: A minimum GPA of 3.0, ENG 111, ENG 151, and an ENH 200-level course

SLS 303  Humanities III: Modern Culture
4 hours; 4 credits
A study of selected works from the literature and philosophy of modern civilization with some attention to the fine arts of the period.
Prerequisites: A minimum GPA of 3.0, ENG 111, ENG 151, and an ENH 200-level course

SLS 325  Social Thought
(Also SOC 325)
4 hours; 4 credits
Analysis of key trends in social theory from ancient times to the present. Includes the study of thought concerning the early organization of human society, the development of agricultural and feudal societies, the effects of industrialization and the modern age, and the already-significant impacts of the computer age and the Internet. The course is especially concerned with major social questions in science, philosophy, urbanism, and political economy. Emphasis on reading and discussing original sources. (social science) NOTE: This course satisfies the College Option.
Prerequisites: A minimum GPA of 3.0, ENG 111, ENG 151, and a 200-level Social Scientific Analysis course
SEEK
Division of Student and Enrollment Services
SEEK Director, Gloria Garcia, Building 1A, Room 112

The SEEK Program offers a series of courses aimed at enhancing the college experience and increasing the retention of its students. An orientation course is offered each semester to students entering the SEEK Program.

SKO 100  Freshman Orientation
2 class hours; 1 credit
A means of helping incoming freshmen to develop educational and career goals through a group process of self-awareness with an emphasis on learning as a cooperative venture. In addition to providing information relative to the College setting, the course offers a systematic vehicle for interaction between student and counselor. A major theme throughout is a focus on the responsibility of the student for his or her own life and college career. The course also offers assistance with basic study skills and study habits.

SKO 101  Psycho-Dynamics of Student Life
4 hours; 2 credits; 4 equated credits
An analysis of personal and contemporary issues that affect the everyday life of students. Emphasis is on topics that play a major role in student development and the educational process such as adjustment to college life, strategies for change, and insights into personal success.

SKO 102  Learning to Learn
3 hours; 3 credits
A learning approach that provides study techniques geared to college success. The course focuses on the use of an inquiry method for new subject matter by which students learn to identify the component parts of complex principles and ideas in content courses. Topics include note taking, time management, reading and writing techniques, information mapping, and test taking strategies. Informal feedback mechanisms are included to help students assess their own progress.
Prerequisite: Permission of the department

SKO 103  Stress: Understanding and Management
(Also PSY 103)
3 hours; 3 credits
A comprehensive presentation of the physical, social, and psychological understanding of the human stress response. Opportunities for students to learn concrete scientific insights, practical stress management skills, and beneficial relaxation techniques are offered.

Social Work
(Bachelor of Science)
Department of Social Work (2A), Room 201G
Chairperson and Professor  Christine Flynn Saulnier

The curriculum of the Bachelor of Science in Social Work, also called the BSSW, is designed to prepare students for social work practice as generalists and for advanced study in graduate schools of social work. The BSSW is recognized as the entry level by the social work profession. As practitioners, graduates are able to work with people of diverse backgrounds and needs in a variety of settings in such fields as child welfare, mental health, family services, criminal justice, housing, services to people with disabilities, services to people who are elderly, urban development, community organizing, and health and medical care.

Social Work (BS)
Admission and Retention Requirements

Students must have completed 40 credits and must have a 2.5 GPA, including SWK 200 and MTH 113 for entry into the program. Students are required to maintain a 2.5 GPA to continue in the program and earn a grade of C or better in all Social Work courses, except SWK 350 and SWK 360 and SWK 365, where a grade of B or better is required to advance. SWK 454 and SWK 464 are pass/fail.

The academic records of transfer students will be reviewed and equated with the academic major and general education course offerings of the College of Staten Island to determine the placement of the students in the program.

Application forms can be obtained from the Department of Social Work website or from the Department of Social Work office. In addition to the application form, applicants will need to include copies of academic transcripts, a resume detailing volunteer, paid, and unpaid experience, and a well-written and structured personal statement addressing questions specified in the application form. Deadline for applications are February 15th for entry in to the Fall of that same year. Applications are reviewed by at least two members of the BSSW Admissions Committee and applicants will be notified of decisions in April of the year of the application. Please consult the Program Director for specific admission procedures.

Pre-Major Requirement:  7-28 credits
SOC 100  Sociology  3 credits
PSY 100  Psychology  3 credits
POL 100  American Government and Politics  3 credits
SWK 200  Introduction to Social Work  3 credits
BIO 106  Principles of Biology I  3 credits
BIO 107  Principles of Biology I Laboratory or
BIO 170  General Biology I  3 credits
BIO 171  General Biology I Laboratory  1 credit
PSY 202  Psychopathology  4 credits
MTH 113  Introduction to Probability and Statistics  4 credits
Any 200-level Sociology course  4 credits

Professional Foundation Content Requirements: 51-55 credits
SWK 300  Social Work Research I  3 credits
SWK 302  Social Work Research II  3 credits
SWK 305  Diversity in Social Work  3 credits
SWK 306  Community Service Learning and Professional Development  3 credits
Social Work Courses

SWK 105 Introduction to Disability Studies
3 hours; 3 credits
This course introduces the student to the emerging, multidisciplinary field of disability. The course will cover the social construction of disabilities, which is distinct from a medical model of disabilities. Included are definitions, early history of disabilities, the disability rights movements, eugenics, policy that impacts people with disabilities, legal issues, self-advocacy, and disability culture.

SWK 107 Introduction to Developmental Disabilities
3 hours; 3 credits
Overview of the key knowledge on developmental disabilities. Issues to be explored include defining the disabled throughout the life cycle, normalization, deinstitutionalization, mainstreaming, case management and advocacy, ethical and legal issues, the Developmental Disabilities Movement, and its impact on the family and community.

SWK 200 Introduction to Social Work
3 hours; 3 credits
The course is an introduction to the profession of social work through an examination of its value base, fields of practice, and role in society. Major social problems, philosophies of the delivery of social welfare provision, program and policy initiatives, and the response of social work as a profession are addressed. The obligation of professional social workers to promote social and economic justice on behalf of populations vulnerable to or oppressed by ethnocentrism, racism, heterosexism, ableism, ageism, or religious/spiritual affiliations is emphasized. Pre- or corequisites: ENG 111, SOC 100

SWK 321 Social Work Practice with Older Adults
3 hours; 3 credits
An introduction to gerontological social work, a field of social work practice which focuses on the biopsychosocial needs of older adults and their families and the social services and health care systems which promote successful aging. This course is open to majors and non-majors. Prerequisite: ENG 151

SWK 300 Social Work Research I
3 hours; 3 credits
This course provides an examination of the principles and theory underlying scientific inquiry and the practices of social science research. The focus is on developing informed consumers of social work research. The course introduces students to critical reading, understanding, and the use of library research and web resources in social work practice, often referred to as evidence-based practice, steps in conducting research, and research efforts toward developing and evaluating social work knowledge and skills. Prerequisite: Open only to Social Work majors and MTH 113 Pre- or corequisite: SWK 305 (if taken as a prerequisite, requires a grade of C or higher)

SWK 302 Social Work Research II
3 hours; 3 credits
Continuation of Social Work Research I. This course deals with identifying appropriate research methods, and evaluating and applying standard social science research methods. Qualitative and quantitative methods are explored. Descriptive and inferential statistics are presented. In addition, the course covers the logic of data preparation and analysis. It reviews the basic skills required to evaluate and write research reports including graphic and statistical analysis and presentation. This course fosters an appreciation for diversity and an awareness of and sensitivity to social work research with diverse groups, based on multiple dimensions including race, ethnicity, gender, sexual orientation, and disability. Prerequisite: SWK 300 with a grade of C or higher

SWK 305 Diversity in Social Work
3 hours; 3 credits
A framework for the development of the cultural competency skills needed to work with diverse clients, social
groups, and communities. The course introduces the student to Critical Multicultural Theory, a theoretical framework for understanding and respecting culturally diverse populations. The theories presented in this course are the basis for the integration of cultural diversity issues throughout the curriculum.

Prerequisite: Open only to Social Work majors

**SWK 306 Community Service Learning & Professional Development Seminar**

3 credits

Students will participate in a 75-hour service learning experience within a local social service agency, school, or other human service organization. Concurrently, students will attend a one-hour weekly seminar-format class. The purpose of the seminar service learning experience is to expose students to professional community-based human service practice and help students prepare for the senior field practicum (SWK 454). The course is designed to expose students to the beginning engagement skills, with particular attention to professional roles and boundaries of social work, social work values and ethics, self-reflection, development of the professional self, the importance of social justice values, cultural competency and cultural humility in providing services to clients and the policy contexts of services. Note: a grade of B or higher is required for students to be eligible to enter a field placement (SWK 454). This course may be repeated once.

Prerequisite: Admission to the BSSW program

**SWK 307 Drugs and Alcohol**

3 hours; 3 credits

Drugs and alcohol from a social work perspective. This course focuses on the social reality of drug use, and drug users, within contemporary society and includes a historical analysis of the social construction of drug use, drug users, abuse, and addiction. Students will investigate complex relationships among individual behavior, group behavior, and social structure. Central concepts such as social learning, labeling, power, and inequality, as well as socio-cultural definitions of drugs, behavior, and the people who use drugs, will be the tools of analysis. Special attention will be given to the complex legal history surrounding drug use, the link between drugs and crime, the impact of the medicalization of human behavior, and varying perspectives on “doing something about drugs.”

Prerequisite: Open only to Social Work majors

Pre- or corequisite: SWK 305 (if taken as a prerequisite, requires a grade of C or higher)

**SWK 311 Human Behavior in the Social Environment I**

3 hours; 3 credits

The first of two foundation theory courses. The course will provide the student with the theoretical framework needed to develop as a generalist social work practitioner. Students learn to apply key theoretical frameworks to the exploration of societal issues and the impact of racial, ethnic, class, cultural, religious/spiritual, and gender diversity on behavior. The course will examine the reciprocal nature of these interactions on persons, families, social groups, communities, organizations, and institutions.

Prerequisite: Open only to Social Work majors

Pre- or corequisite: SWK 305 (if taken as a prerequisite, requires a grade of C or higher)

**SWK 312 Human Behavior in the Social Environment II**

3 hours; 3 credits

The second of two foundation theory courses. The course will provide the student with the theoretical framework needed to develop as a generalist social work practitioner. This course will provide the generalist social worker with a broad, theoretical knowledge base to work effectively with individuals, families, groups, organizations, and communities. The students will study human development from a life course perspective recognizing patterns in the human behavior related to biological age, psychological age, and social age norms. The course will cover diversity in the life course related to historical time, gender, race, ethnicity, social class, current global trends, and other dimensions.

Prerequisite: SWK 311 with a grade of C or higher

**SWK 322 Social Work Ethics and Human Rights**

3 hours; 3 credits

Explores social work ethics and human rights. The goal of this course is to equip students with the skills they need when facing ethical dilemmas across micro, mezzo, and macro fields of practice. Specific emphasis is placed on values, ethics, and human rights as they are embodied in contemporary practice. This course will be particularly directed to social ethics addressing the moral quality of societal arrangements and the values and ethical principles that guide social policies that deal with ethical obligations of society.

Prerequisite: Admission to the Social Work program

**SWK 350 Social Work Practice I**

3 hours; 3 credits

First of three courses in social work practice. In preparation for practice in the field, this course emphasizes practice with individuals and families. Assessment, intervention, and evaluation are taught from a social work perspective. Students study the NASW code of professional values and ethics. Issues of diversity and working with populations at risk in the urban environment are integrated. Skill development includes interviewing and recording skills analysis of need, use of self, communication techniques, and the problem-solving process. This course may be repeated once. NOTE: To graduate, a grade of B or higher is required in SWK 350.

Prerequisites: SWK 200 and admission to the BSSW Program with a grade of C or higher

Pre or corequisite: SWK 311 with a grade of C or higher

**SWK 360 Social Work Practice II**

3 hours; 3 credits

Second of three courses in social work practice. As preparation for practice in the field, this second course emphasizes practice with groups. Group assessment, intervention, and evaluation are taught from a social work perspective. Students study the NASW code of professional values and ethics. Issues of diversity and working with populations at risk in the urban environment are integrated. Skill development includes use of self, commu-
communication techniques, and the problem-solving process. The types of groups studies will vary from social action to support groups.

This course may be repeated once. NOTE: to graduate, a grade of B or higher is required in SWK 360
Prerequisites: SWK 350 with a grade of B or higher

**SWK 365 Social Work Practice III**
3 hours; 3 credits
Third of three courses in social work practice. The social work practice sequence provides an introduction to the basic theory and methods of generalist social work practice with individuals, families, groups, organizations, and communities. As a preparation for practice in the field, this third course emphasizes practice with organizations, neighborhoods, and communities. Change strategies such as social action, legislative policy, citizen participation, advocacy, and service development are explored. All case material is studied within the context of the values of the social work profession and the recognition of the importance of cultural diversity. This course may be repeated once. NOTE: to graduate, a grade of B or higher is required in SWK 365.
Prerequisites: SWK 350 with a grade of B or higher.

3 hours; 3 credits
An introduction to fundamental concepts, values, terminology, frameworks, and ethical issues that define social welfare policy. Students will be introduced to the historical and philosophical bases of American social welfare programs. This course will help students understand the contemporary welfare state in terms of its underlying motivations - political, economic, ideological, religious, and social - their impact on social welfare institutions, and the role of the profession of social work in this context. This is the first of a two-part sequence, designed to prepare generalist practitioners with an understanding of the evolution of the social welfare system in the United States, as well as in the global context. The course specifically emphasizes how historically underrepresented groups (e.g. people of color, people with disabilities, women, LGBTQ people, and children) have been affected by social welfare policy throughout history.
Pre or requisite: POL 100 and SWK 305

**SWK 440 Internship in Developmental Disabilities**
2 class hours, 6 field hours; 4 credits
The student is assigned to an agency devoted to the care and supervision of persons with developmental disabilities. The two hours per week in class are devoted to feedback and discussion of issues related to field experiences. Written records are an integral part of the field experience. In semesters when this course is not offered, students may register for an individual internship.

**SWK 454 Social Work Field Practicum I**
16 field hours; 4 credits
A practicum where each student is placed at a community agency. Students are expected to spend a minimum of 240 hours during the semester (16 hours per week) in the agency. Direct interaction with individuals and groups from diverse backgrounds, reflective supervision, and process recordings will aid the student in developing greater cultural awareness and sensitivity. Students will gain skills while working under the instruction of professional social work practitioners who are “teachers” in the field, in conjunction with the guidance of the Social Work faculty at CSI. The Practicum will be graded as Pass/Fail.
Prerequisite: SWK 454 with a passing grade; SWK 455 with a passing grade
Corequisite: SWK 465

**SWK 464 Social Work Field Practicum II**
16 field hours; 4 credits
A continuation of the Field Practicum I. Students are expected to spend a minimum of 240 hours during the semester (16 hours per week) in the agency. Direct interaction with individuals and groups from diverse backgrounds, reflective supervision, and process recordings will aid the student in developing greater cultural awareness and sensitivity. Students will gain skills while working under the instruction of professional social work practitioners who are “teachers” in the field, in conjunction with the guidance of the Social Work faculty at CSI. The Practicum will be graded as Pass/Fail.
Prerequisite: SWK 454 with a passing grade; SWK 455 with a passing grade
Corequisite: SWK 465
SWK 465  Social Work Field Seminar II
2 hours; 2 credits
The second course of a two-semester sequence which continues to facilitate students’ integration of the educational experience in class and the field. In addition, the field seminar is the capstone course in the social work program that synthesizes theory, research, policy, and practice methods. Students are to produce documents that combine research and analysis applied to practice in the field. Understanding of social work concepts and readiness/competency to begin the professional social work practice is the goal of the capstone course. Students will explore significant social work issues, bringing their experience and knowledge to bear on the interaction of their values and skills within the major.
Prerequisite: SWK 454 with a passing grade; SWK 455 with a passing grade
Corequisite: SWK 464

3 hours; 3 credits
This is the second policy course in a two semester sequence. This course builds on the historical perspectives presented in SWK 370. It is designed to offer students knowledge of issues surrounding the development, implementation, and evaluation of social welfare policies that have affected and continue to affect historically oppressed groups in the United States. Specific policy areas to be discussed include healthcare, mental health, child welfare, people with disabilities, the elderly, and criminal justice. Students in this course will understand the need for social work involvement in political arenas, advocacy groups, and as part of organizational change, to advance social, political, and economic justice. The course will demonstrate the various policy analysis tools to teach students to better understand how policy affects practice and how social workers can influence policy.
Prerequisite: SWK 370 with a grade of C or higher

Sociology and Anthropology

(Bachelor of Arts, Minor)
Department of Sociology and Anthropology, Building 4S, Room 223
Chairperson and Associate Professor Jeanne Halley

The joint major in Sociology and Anthropology offers several options: most of the 40-44 credit requirement may be met by courses in sociology or in anthropology, according to the student’s primary interest; courses from both disciplines may be mixed equally. The program prepares students for such areas as teaching sociology or anthropology, social work, urban planning, public health, management, and law. Selected sociology and anthropology courses will also be of particular interest to majors in Biology, Psychology, History, Economics, International Studies, Nursing, and Computer Science.

Sociology/Anthropology (BA)

Major Requirements:  40-44 credits
SOC 200  Sociological Theory  4 credits
SOC 201  Methods of Sociological 4 credits

Sociology/Anthropology Courses

ANT 100  Understanding Our Worlds
3 hours; 3 credits
A survey of the development, contributions, and contemporary social problems of selected groups and cultures. The course will examine how culture is affected by global processes; the social and historical context of cultural beliefs and performances through which those beliefs and performances become normalized; culture and power and how power works through culture. (social science) (FWGR)

ANT 201  Cultural Anthropology
4 hours; 4 credits
Case studies of specific societies—tribal, peasant, and urban—to illustrate the variety of anthropological approaches to understanding social relations. Discussion of
contemporary social issues in comparative perspective. (social science) (p&d)
Prerequisites: ENG 111, COR 100, and (ANT 100 or SOC 100 or SOC/ANT 203)

ANT 205 Native American Societies
4 hours; 4 credits
Origins of Native North American societies and their transformation following contact with Europeans. Special emphasis on the diverse ways native people have coped with, adapted to, and resisted continually changing circumstances from colonial times to the present. (social science) (p&d) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111, COR 100, and (ANT 100 or SOC 100 or SOC/ANT 203)

ANT 225 Multicultural Literacy
(Also COM 225)
4 hours; 4 credits
An exploration of culture as it is defined by various disciplines and understood through prisms of class, race, gender, ethnicity, and the nation state. The class approaches literacy and culture from interdisciplinary perspectives, drawing on anthropology, sociology, literary theory, media studies, and gender studies. (social science) (literature) (p&d) (TALA) NOTE: This course satisfies the College Option.
Prerequisites: ENG 151, COR 100 and (SOC/ANT 203 or any 100-level ANT, COM, HST, POL, SOC, or WGS course)

ANT 305 Power and Society in Latin America
(Also SOC 305/INT 305)
4 hours; 4 credits
This course will offer students a general overview of the political, economic, and cultural forces shaping Latin American societies. It will focus on social inequalities and the effects of contemporary global changes on the region. Readings and class discussions will address both specific countries and trends affecting the region more broadly.
Prerequisites: SOC 200 or SOC 240 or SOC 260 or ANT 201

ANT 306 Latinas/os in the United States
(Also SOC 306/AMS 306)
4 hours; 4 credits
An examination of the sociological and anthropological literature on Latinas/os in the United States. The main goal is to acquaint students with the most important economic, political, and social aspects that contemporary Latino communities are experiencing. Using ethnographies, the course will focus on community formation, social movements, race and ethnicity, gender and sexuality issues, immigration, and transnationalism. Class discussions will also address differences based on national origin, class, and generation. This is a reading and writing intensive course in which students are expected to conduct primary research. (social science) (p&d) NOTE: This course satisfies the College Option.
Prerequisites: ANT 201 and one of the following: SOC 200, SOC 201, SOC 240, or SOC 260

ANT 307 Caribbean Societies
(Also INT 307/SOC 307)
4 hours; 4 credits
An introduction to the sociological and anthropological literature on Caribbean societies. The main objective is to acquaint students with the most important economic, political, and social aspects of the region. Using ethnographies, the course will focus on the development of plantation society, nation-state formation, race and ethnicity, gender, political economy, and transnationalism. Class discussions will also address the issues of economic development, human rights, globalization, and U.S. foreign policies on the region. This is a reading and writing intensive course in which students are expected to conduct primary research.
Prerequisite: INT 200 or INT 203 or any ANT or SOC 200-level course

ANT 308 Anthropology of Human Rights
4 hours; 4 credits
An examination of the different ways in which anthropologists have approached human rights, from attempts to understand human rights – as most disciplines and advocates do – as abstract, codified principles, to work that takes human rights as an anthropological object, constituted by specific social practices and meanings. It examines how anthropologists have addressed human rights through a range of themes, from activism, the state and citizenship, truth and reconciliation to health care, child prostitution, the trade in human organs, in order to develop a critical sense of human rights as an anthropological object.
Prerequisites: ENG 151 and ANT 201

ANT 312 Food, Self, and Society
(Also SOC 312 and WGS 312 and GEG 312)
4 hours; 4 credits
A sociological, anthropological, and geographical examination of the ways in which the production and consumption of food shape and are shaped by the self and the social world. A major theme of the course will be the gendering of food through topics such as women’s traditional roles as home cooks, women laborers in global food production, and female body image. Particular attention will be given to the meaning of practices of eating; preparing and sharing food for the individual, family, community, and nation; and how these practices are influenced by larger forces such as social inequality and globalization. Students are expected to conduct primary research.
Prerequisites: ENG 151, ANT 201, or SOC 201

ANT 331 Women and Work
(Also SOC 330, WGS 330)
4 hours; 4 credits
The social and cultural constraints affecting women’s participation and attainments in the world of work. Conflicts between work role expectations and gender role expectations (e.g., femininity, nurturance, maternity). The effects of class background and race/ethnicity on women’s occupations, professions, and incomes. (social science) (p&d) NOTE: This course satisfies the College Option.
Prerequisites: ENG 151 and (any 200-level ANT or SOC course or WGS 230 or WGS 238)
ANT 365  Political Anthropology
4 hours; 4 credits
The central topic in political anthropology is the emergence of the state and urban society from tribal societies. This course will examine different explanations for the emergence of states and show the importance of this problem to anthropology as a whole.
Prerequisites: ANT 100 or SOC 100 or SOC/ANT 203 and any 200-level ANT or SOC course

ANT 367  Globalization and the World System
(Also SOC 367/INT 367)
4 hours; 4 credits
This course explores major issues and current approaches in sociological thinking on globalization and the world system. Globalization will be examined as a multifaceted phenomenon, encompassing changing economic and political forces and the movement of people, ideas, images, and technologies across national boundaries. Particular attention will be given to how global forces structure inequalities both across nations and within them.
Prerequisites: (SOC 200 or SOC 240 or SOC 260 or ANT 201)

ANT 370  Urban Anthropology
4 hours; 4 credits
The social and cultural organization of urban life examined from two perspectives: detailed and comparative studies of households, neighborhoods, homeless shelters, and other urban institutions, and the transformations in the Third World involving mass migrations and industrial relocation.
Prerequisites: ANT 100 or SOC 100 or SOC/ANT 203 and any 200-level ANT or SOC course

ANT 450  Anthropology of Philosophy and Religion
4 hours; 4 credits
The intellectual confrontation with nature and the attempt to reduce nature to a knowable and controllable form. A survey of philosophical and religious systems as efforts by people to define their place in the world. Special topics will include witchcraft, magic, ritual, and esoteric religious systems.
Prerequisite: ANT 100 or SOC 100 or SOC/ANT 203 and any 200-level ANT or SOC course

SOC 100  Sociology
3 hours; 3 credits
A study of modern society with emphasis on such fundamental groupings as the family, class, the community, the state, the interaction between cultures and the individual, the processes by which institutions come into being and develop, and important social theories. (social science) (FISR)

SOC 120  Social Problems
3 hours; 3 credits
Conditions defined by sociocultural groups and institutions as social problems, as well as potential solutions, are examined from various sociological perspectives. Emphasis is given to problem issues prevalent in contemporary metropolitan settings such as physical and mental health issues, access to social services, poverty, and prejudice and discrimination. (social science) NOTE: This course satisfies the College Option.

SOC 200  Sociological Theory
4 hours; 4 credits
Prerequisites: SOC 100 or SOC/ANT 203 and any 200-level SOC course

SOC 201  Methods of Sociological Research
4 hours; 4 credits
How sociologists collect and analyze data. Examination of various methods of research, including questionnaires, interviews, participant observation, and the use of historical and literary sources.
Prerequisites: ENG 111, COR 100, and (SOC 100 or SOC/ANT 203)
Majors are advised to take this course within the first 15 credits of Sociology/Anthropology.

SOC 202  Gender, Race, Ethnicity, and Class
(Also WGS 202)
4 hours; 4 credits
How gender, race, ethnicity, and class interact with each other and influence personal identities, opportunities, and life experiences. The effects of these factors on attitudes and ideology, from the perspectives of scholars to those of political groups within and among nation states. The effects of political economy and the division of labor on gender, race, and class. (social science) (p&d) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111, COR 100

SOC/ANT 203  Social Analysis
4 hours; 4 credits
This course will provide students entering the Sociology/Anthropology Major with a grounding in the history of the two disciplines, an introduction to key topics and theorists, and training in the basic skills of reading and writing for the social sciences. It will serve as a gateway course for students interested in majoring in Sociology/Anthropology.
Prerequisites: ENG 111, COR 100

SOC 210  Sociology of Health and Medicine
4 hours; 4 credits
Examination of the norms, values, beliefs, role relationships, and organizations of medical practice as a form of human behavior. Emphasis on the social processes that occur in the medical setting. Analysis of the medical environment from a sociological perspective. (social science) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111, COR 100 and (ANT 100 or SOC 100 or SOC/ANT 203)

SOC 212  Criminology
4 hours; 4 credits
Sociological research and theory on crime and criminal behavior. Social, cultural, economic, and psychological factors affecting crime. The definition of crime in historical and cross-cultural perspectives: interpersonal violence, organized crime, corporate crime, and political violations of human rights. (social science) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111, COR 100 and (ANT 100 or SOC 100 or SOC/ANT 203)

SOC 220  Marriage and the Family
4 hours; 4 credits
Marriage and the family as social institutions. The historical development of these institutions, with special emphasis on the personal and social problems of the matrimonial relationship and of modern family life. (social science) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111, COR 100

SOC 221  Socialization of the Child
4 hours; 4 credits
The socialization of the child will be examined in detail in the context of social, cultural, economic, and political institutions; various sociological and psychological theories concerning child rearing. Adolescent socialization, moral development, and the impact of factors such as sex, birth order, social class, and ethnicity will be discussed. (social science) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111, COR 100 and (PSY 100 or ANT 100 or SOC 100 or SOC/ANT 203)

SOC 222  Sociology of Women
(Also WGS 230)
4 hours; 4 credits
Social and cultural forces affecting women’s lives. The problems, struggles, and accomplishments of women in social and historical contexts. Changing sex roles and relationships as affected by ethnicity, race, and class. (social science) (p&d) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111, COR 100

SOC 223  Sociology of Aging
(Also WGS 238)
4 hours; 4 credits
Social implications of aging in contemporary society. The changing roles, relationships, and opportunities of people as they grow older, affected by social, cultural, medical, political, and economic conditions. Issues related to the elderly who need care. (social science) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111, COR 100 and (ANT 100 or SOC 100 or SOC/ANT 203)

SOC 225  Minority Groups
4 hours; 4 credits
A study of selected contemporary social problems such as poverty, criminal justice, ethnicity, or race relations from the perspectives of political science, economics, and sociology. The emphasis will be on urban problems. The course will explore the types of questions that might be raised about the topics by persons trained in the social sciences and will explore the methods used to answer such questions. Relationships between modes of inquiry, types of questions asked, and the answers obtained. An emphasis on developing ability to read, understand, and think critically about writings in the social sciences. (social science) NOTE: This course satisfies the College Option.
Prerequisites: A minimum GPA of 3.0, ENG 111, ENG 151, COR 100

SOC 226  Sociology of Men
4 hours; 4 credits
Comparative historical perspectives on the male gender role and male domination through social institutions and male gender role socialization. Issues regarding the relationships of men with each other as well as between men and women. (p&d) (social science) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111, COR 100
Processes of neighborhood identity formation, cohesion, conflict, decline, and revitalization. The role of women and ethnic and class-determined groups in community institutions and community organizing. Staten Island as a case study. (social science)
Prerequisites: ENG 111, COR 100 and (ANT 100 or SOC 100 or SOC/ANT 203)

SOC 274  Social Welfare
4 hours; 4 credits
The social welfare system in the contemporary state. Social functions and the historical, economic, and political foundations of the welfare system, including the structure of transfer payments and the social relations that it establishes. (social science)
Prerequisites: ENG 111, COR 100 and (ANT 100 or SOC 100 or SOC/ANT 203)

SOC 275  Sociology of Education
4 hours; 4 credits
The changing social and cultural context of contemporary American education. The relationship between education and social inequality, social mobility, and social change. Issues and debates regarding contemporary education. This course does not meet New York State requirements for teacher certification. (social science) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111, COR 100

SOC 280  Sociology and Politics
4 hours; 4 credits
The social background of political elites and movements, bureaucracy and the problem of political power, conflict and social class, and industrial and postindustrial society. Readings from classical theorists and contemporary empirical work. (social science) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111, COR 100 and (ANT 100 or SOC 100 or SOC/ANT 203)

SOC 292  The Individual in Society
4 hours; 4 credits
The social context and meaning of individual behavior and face-to-face interaction. An examination of sociological theory and research, from the classic writings of Mead to recent phenomenologists and critics of psychotherapy. (social science) NOTE: This course satisfies the College Option.
Prerequisites: ENG 111, COR 100

SOC 301  Computerized Research Analysis
4 hours; 4 credits
This course will help students to acquire quantitative research skills by introducing them to important computer applications in the social sciences. It covers data management and analysis using appropriate software packages such as SPSS. Topics on social statistics will focus on the understanding of principles, selection of procedures, and interpretation of results.
Prerequisites: SOC 201; MTH 102, MTH 113, or a higher-level mathematics course

SOC 302  Contemporary Sociological Theory
4 hours; 4 credits
Theoretical traditions and schools of thought within contemporary sociology including those of functionalism, conflict theory, exchange theory, neo-Marxism, feminism, ethnomethodology, world-systems theory, and historical-comparative theory. Underlying assumptions and cultural biases in social thought.
Prerequisite: SOC 200

SOC 305  Power and Society in Latin America
(Also ANT 305/INT 305)
4 hours; 4 credits
This course will offer students a general overview of the political, economic, and cultural forces shaping Latin American societies. It will focus particular attention on social inequalities and the effects of contemporary global changes on the region. Readings and class discussions will address both specific countries and trends affecting the region more broadly.
Prerequisites: SOC 200 or SOC 240 or SOC 260 or ANT 201

SOC 306  Latinas/os in the United States
(Also ANT 306/AMS 306)
4 hours; 4 credits
An examination of the sociological and anthropological literature on Latinas/os in the United States. The main goal is to acquaint students with the most important economic, political, and social aspects that contemporary Latino communities are experiencing. Using ethnographies, the course will focus on community formation, social movements, race and ethnicity, gender and sexuality issues, immigration, and transnationalism. Class discussions will also address differences based on national origin, class, and generation. This is a reading and writing intensive course in which students are expected to conduct primary research. (social science) (p&d) NOTE: This course satisfies the College Option.
Prerequisites: ANT 201 and one of the following: SOC 200, SOC 201, SOC 240, or SOC 260

SOC 307  Caribbean Societies
(Also ANT 307/INT 307)
4 hours; 4 credits
An introduction to the sociological and anthropological literature on Caribbean societies. The main objective is to acquaint students with the most important economic, political, and social aspects of the region. Using ethnographies, the course will focus on the development of plantation society, nation-state formation, race and ethnicity, gender, political economy, and transnationalism. Class discussions will also address the issues of economic development, human rights, globalization, and U.S. foreign policies on the region. This is a reading and writing intensive course in which students are expected to conduct primary research.
Prerequisite: INT 200 or INT 203 or any ANT or SOC 200-level course

SOC 312  Food, Self, and Society
(Also ANT 312 and WGS 312 and GEG 312)
4 hours; 4 credits
A sociological, anthropological, and geographical examination of the ways in which the production and consumption of food shape and are shaped by the self and the
SOC/ANT 313 Modern Korean Culture
4 hours; 4 credits
A survey of modern Korean culture and society since 1945. The course will examine key dimensions of South Korean society, including the division of the peninsula, the legacies of the Korean War, projects of national economic development, gender dynamics, and social movements, to the most recent social and cultural phenomena and multiculturalism under the aegis of Global Korea.
Prerequisites: ENG 151 and any SOC 200-level course

SOC/ANT 314 The High Cost of Cheap Food
4 hours; 4 credits
An examination of the problems associated with the mass consumption of industrialized food such as exploitation of labor, environmental degradation, animal abuse, widespread obesity and illness, and the erosion of social and cultural ties. We will critically examine the ways in which the industrialization of our food supply has made calories cheap and plentiful and how the society at large pays for cheap food’s hidden costs. Some of the questions we will ask include: How has social stratification historically affected people’s relationship to (consumption of) industrial food? Why do most Americans struggle to eat well? How is the workforce in America’s farms, factories and food service establishments raced and gendered? In what ways has the food industry worked to obscure its own practices? How have government regulations been shaped to cater to the needs of food companies rather than consumers? Through the lens of industrial food, this course focuses particular attention on issues of labor, immigration and capitalism.
Prerequisites: COR 100, ENG 151 and (SOC/ANT 203 or SOC 200 or SOC 260 or SOC 312/ANT 312/WGS 312/GEG 312

SOC 322 Sociology of the Environment and Ecology
4 hours; 4 credits
An overview of various aspects, approaches, key issues, and case studies relevant to the sociology of the environment and environmental issues, focusing on overlaps between the sociological perspective or imagination and ecological thinking. This course covers the basic facts of major environmental issues, both local (such as Fresh Kills, Love Canal, and cancer rates and pollution on Staten Island and Long Island) and global (such as the Deepwater Horizon disaster, industrialized food production, and citizens’ movements for environmental awareness). Importantly, this course in Environmental Sociology will focus on the roles played by class, the market, labor interests, social geography, race, gender, and colonialism in the development, classification, and treatment of environmental problems.
Prerequisites: ENG 151 and one or more of the following: SOC 200, SOC 201, ANT 201, SOC 260

SOC/ANT 332 Social Movements and Social Justice
Also AAD 332/INT 332
4 hours; 4 credits
An introduction to key sociological theories and concepts in the study of social movements. Addressing various questions, including: how have powerless groups of people organized social movements to try to improve their lives and change the society in which they lived? What did these movements accomplish in terms of improving people’s day-to-day lives? What role has policing and police played in social movements? Prerequisites: ENG 151 and SOC/ANT 203 or SOC 212 or SOC 200

SOC 325 Social Thought
(Also SLS 325)
4 hours; 4 credits
Analysis of key trends in social theory from ancient times to the present. Includes the study of thought concerning the early organization of human society, the development of agricultural and feudal societies, the effects of industrialization and the modern age, and the already-significant impacts of the computer age and the Internet. The course is especially concerned with major social questions in science, philosophy, urbanism, and political economy. Emphasis on reading and discussing original sources (social science) NOTE: This course satisfies the College Option.
Prerequisites: A minimum GPA of 3.0, ENG 111, ENG 151, and a 200-level Social Scientific Analysis course

SOC 328 Meat Markets, Gender, and Violence in the Lives of Humans and Others
4 hours; 4 credits
A sociological study of gender and violence in the lives of humans and other animals. Using a sociological lens, this course explores violence in both the meat industry and intimate human lives. We also look at cultural notions about which groups are violent, and social realities of where violence actually happens in our relationships, homes, and workplaces. Throughout the term, we focus on differences and similarities in experiences of violence across lines of class, race, sexuality, and species.
Prerequisites: ENG 151 and one or more of the following: SOC 200, SOC 201, SOC/ANT 203

SOC 330 Women and Work
(Also WGS 330, ANT 331)
4 hours; 4 credits
The social and cultural constraints affecting women’s participation and attainments in the world of work. Conflicts between work role expectations and gender role expectations (e.g., femininity, nurturance, maternity). The effects of class background and race/ethnicity on women’s occupations, professions, and incomes. (social science) (p&d) NOTE: This course satisfies the College Option.
Prerequisites: ENG 151 and (any 200-level ANT or SOC course or WGS 230 or WGS 238)
SOC 340  Ethnicity and Immigration
4 hours; 4 credits
Social, cultural, and historical factors affecting ethnic group experience and socioeconomic status, both in the United States and among immigrants in other societies. Comparison of immigrant groups of first, second, and third generations. The role of women in different ethnic groups. (social science) (p&d) NOTE: This course satisfies the College Option.
Prerequisites: ANT 100 or SOC 100 or SOC/ANT 203 and a 200-level ANT or SOC course

SOC 345  Sociology of Mental Illness
4 hours; 4 credits
An examination of the sociological dimensions of mental illness. The foundation of this course is to critically analyze the social, cultural and historical constructions of the concept of "mental illness," paying particular attention to the ways in which both disordered and normal patterns of thinking are medicalized. Some of the questions we will ask include: What is mental illness? How does social stratification along lines of race, class and gender affect who gets labeled as mentally ill and how they are treated? What is the history of modern psychiatry? How has industry affected the rise in diagnoses of mental illness? What is the relationship between prisons and mental institutions? How is psychiatric treatment used as a form of social control? What are alternative ways of thinking about mental illness?
Prerequisites: ENG 151, COR 100 and (SOC 100 or SOC/ANT 203 or PSY 100)

SOC 350  Psychosocial Aspects of Disability
4 hours; 4 credits
The psychosocial impact of disability, differential development, and social adjustment among disabled groups, friendships, intimacy, and sexuality. The changing role and status of the disabled in our society with particular emphasis on the issues of stigmatization and labeling. (social science) (p&d) NOTE: This course satisfies the College Option.
Prerequisites: SWK 107 and SOC 100 or SOC/ANT 203

SOC 360  Sociology of Work and Leisure
4 hours; 4 credits
Analysis of the world of work and the separate world of leisure, and their social and economic pre-conditions and consequences. Theories of occupations and professions, career patterns, and their relationship to the social structuring of class, status, power, race, and gender.
Prerequisites: ANT 100 or SOC 100 or SOC/ANT 203 and any 200-level ANT or SOC course

SOC 370  Urban Sociology
4 hours; 4 credits
The social structure and culture of city life. Issues of urban politics, racial and ethnic relationships, housing, crime, cultural institutions, economics, communications, city planning and design. Historical origins of the city in the Western world; the future of cities worldwide. New York City as a case study.
Prerequisites: ANT 100 or SOC 100 or SOC/ANT 203 and any 200-level ANT or SOC course

SOC 371  Media and the Margins
(Also COM 371)
4 hours; 4 credits
An examination of the role of the mass media as cultural institutions that shape the images and self-images of marginalized groups. The course engages with definitions based on, but not limited to, age, disability, ethnicity, gender, race, and sexuality. (social science) (p&d) NOTE: This course satisfies the College Option.
Prerequisites: COM 150 or a 100-level and a 200-level ANT or SOC course

SOC 372  Institutions of Control
4 hours; 4 credits
How leading social institutions (family, schools, mass media, government, and the economy) shape and control U.S. society. The role of racism, sexism, violence, and economic exploitation as forms of social control. Existing patterns of domination and subordination.
Prerequisites: ANT 100 or SOC 100 or SOC/ANT 203 and any 200-level ANT or SOC course

SOC 374  Mass Media in Modern Society
(Also COM 374)
4 hours; 4 credits
Sociological analysis of the mass media: their comparative histories and organizations, and their political and social effects. Their persuasive role in propaganda and public opinion, and their function in providing information and entertainment for the common culture.
Prerequisites: COM 150 and a 200-level ANT or SOC course

SOC/ANT 375  Sex and Society
(Also WGS 375)
4 hours; 4 credits
An overview of the diverse ways that human beings think about, organize, and experience sexuality, sex and gender roles and identities, intimacy and love, marriage, domestic and sexual labor, and other forms of intimate human relationships. We will critically examine the development of sexuality as an object of study within the social sciences while exploring different theoretical approaches and concepts developed to understand it. We will consider various questions, including: what counts as sex? How have constructions of sexuality varied in different social and historical contexts and why? How are the ideologies and regulation of sexuality and gender related to power,
The course has a transnational perspective, and focuses particular attention on differences and similarities in the experience of sexual relationships across lines of gender, sex, class, race, and sexual orientation.

Prerequisites: ENG 151, COR 100

SOC 376  Social Change
4 hours; 4 credits
Analysis of societal and cultural transformations. Leading theories of social change. Empirical case studies in interpersonal relationships and race relations as well as technological, economic, and political changes. The role of mass media, communities, and organizations.

Prerequisites: ANT 100 or SOC 100 or SOC/ANT 203 and any 200-level ANT or SOC course

SOC 378  Social Planning
4 hours; 4 credits
Analysis of the underlying assumptions and values embedded in social policy with respect to such issues as poverty, homelessness, education, drug abuse, family violence, community development, human rights, and affirmative action. Cross-cultural models of social planning and the planning process.

Prerequisite: SOC 274

SOC 380  Sociology of Organizations
4 hours; 4 credits
The analysis of modern organizational structures and processes, focusing on social control through specific collective and bureaucratic organizations (business, educational, medical, legal, service, etc). Comparison of internal organizational cultures in public, voluntary, and private sectors.

Prerequisites: (ANT 100 or SOC 100) and SOC/ANT 203 and any 200-level ANT or SOC course

SOC/ANT 400  Research Seminar in Sociology/Anthropology
4 hours; 4 credits
The course is intended to enable students to integrate a variety of interest areas in sociology and/or anthropology, thereby culminating the major with a synthesis provided through theoretical perspectives.

Prerequisites: SOC 200, SOC 201, and a minimum grade of C in SOC/ANT 203, minimum 8 credits in SOC/ANT 300 level or above

SOC 410  Sociological Issues
4 hours; 4 credits
Detailed exploration of selected social issues according to student interest (e.g., homelessness, health care, substance abuse, domestic violence), as affected by such variables as social class, race, religion, gender, technological change.

Prerequisite: SOC 201

SOC 420  Birth and Death
(Also WGS 420)
4 hours; 4 credits
An exploration of the different sociological renderings of birth and death in contemporary societies. Understanding the concepts of birth and death from a sociological perspective offers an excellent opportunity to explore the intersections of race, class, gender, spirituality, and age. This course will be heavily geared toward feminist and critical perspectives. It will explore recent technological innovations and their implications for representations of conception, birth, and death.

Prerequisites: ENG 151 and (any 200-level ANT or SOC course or WGS 230 or WGS 238)

SOC 427  Sociology of Language
(Also LING 380)
4 hours; 4 credits
Areas of discussion include language and class, language and sex, language and race, and language and ethnicity.

Prerequisite: ENG 151

JUNE 201 CUR ENL 427

Spanish

(Bachelor of Arts, Minor)
Department of World Languages and Literatures, Building 2S, Room 109
Chairperson and Associate Professor Gerry Milligan

The department offers a major in Spanish (Track 1) and a major in Spanish with an Adolescence Education sequence (Track 2) that prepares students for teacher certification for grades 7-12.

All students with prior training in Spanish must take a proficiency examination to determine placement at an appropriate level.

Transfer students must take at least four courses at the 300- or 400-level.

Spanish (BA)

1. Track One: Spanish:

Pre-Major Requirements: 16 credits
Four semesters of college-level language study (SPN 112, SPN 114, SPN 213, SPN 215) or (SPN 113, SPN 114, SPN 213, SPN 215) or the equivalent (SPN 120, SPN 220, SPN 215). Students who enter the College with ability in Spanish take a placement examination to determine the level at which they should begin language study. These courses may also be used to satisfy general education requirements.

Major Requirements: 36 credits

Students majoring in Spanish must complete the following requirements:

An advanced communication skills course 4 credits
(SPN 313)

A Spanish Society and Literature course 4 credits
(SPN 339, SPN 341)

A Spanish-American Society and Literature course 4 credits
(SPN 342, SPN 343)

An additional 24 credits of courses chosen from 300- or 400-level Spanish courses 24 credits
2. Track Two: Preparation for Teaching Spanish (Grades 7-12)
In addition to the requirements for the Spanish major, students wishing to be recommended by the College for teacher certification must complete the following sequence of education courses (24 credits). For admission and continuation in the adolescence education sequence and all adolescence education courses students must have a minimum cumulative GPA of 3.0.

EDS 201 Social Foundations of Secondary Education 4 credits
EDS 202 Psychological Foundations of Secondary Education 4 credits
EDS 305 The Pedagogy of Secondary School in Foreign Language 4 credits
EDS 319 The Secondary School Curriculum in Foreign Language 4 credits
EDS 400 Student Teaching in Secondary Education 6 credits
EDS 401 Reflection and Analysis in Student Teaching in Secondary Education 2 credits

See also Education/Adolescence Education.

Electives: 2-36 credits
Total Credits Required: 120

Liberal Arts and Sciences Requirement
Most education courses are non-liberal arts and sciences.

Honors
To graduate with honors in Spanish, a student must have a 3.5 grade point average in Spanish language courses and must complete a special project under the direction of a faculty member. A faculty committee will vote on the recommendation for honors.

Spanish Minor
At least 12 credits of courses in Spanish at or above the 200 level.

Spanish Courses

SPN 101 Spanish Conversation I
2 hours; 2 credits
Practical Spanish for business, community relations, travel, and simple technical application. For beginners with no previous knowledge of the language. Regular attendance in the World Languages and Literatures Media Center is required.

SPN 102 Spanish Conversation II
2 hours; 2 credits
A continuation of SPN 101. Regular attendance in the World Languages and Literatures Media Center is required.
Prerequisite: SPN 101 or equivalent

SPN 112 Basic Spanish I (Not Open to Native/Heritage Speakers)
3 hours; 3 credits
A beginning course in the fundamentals of expression and communication for those who have had no previous work in the language. Regular attendance in the Modern Languages Media Center is required. Not open to students who have taken SPN 113 or SPN 120. Closed to native speakers.
(foreign lang.) (FWGR)
Prerequisite: Passing the CUNY Assessment Tests in Reading and Writing; closed to native speakers

SPN 113 Basic Spanish I (Note Open to to Native/Heritage Speakers)
4 hours; 4 credits
A beginning course in the fundamentals of expression and communication for those who have had no previous work in the language. Regular attendance in the World Languages and Literatures Media Center is required.
(foreign lang.) Not open to students who have completed SPN 112.
Prerequisite: Passing the CUNY Assessment Test in Reading and Writing; closed to native speakers

SPN 114 Basic Spanish II (Not Open to Native/Heritage Speakers)
4 hours; 4 credits
A continuation of SPN 112 or SPN 113. Regular attendance in the World Languages and World Literatures Media Center is required.
(foreign lang.) Prerequisite: SPN 112 or SPN 113 or equivalent. Passing the CUNY Assessment Test in Reading and Writing tests; closed to native speakers.

SPN 119 Elementary Spanish for Heritage Speakers
4 hours; 3 credits
Elementary Spanish for Heritage Speakers is designed for Hispanic bilinguals educated in the U.S., who have little or no formal instruction in the language. The course offers those students opportunities to study Spanish formally in an academic setting through a review of specific grammar structures, expansion or development of vocabulary, and discussion of rhetorical techniques. Regular attendance in the World Languages and Literatures Media Center is required.
(foreign lang.)
Prerequisite: Passing the CUNY Assessment Test in Reading and writing and passing the CUNY Assessment Test in Writing

SPN 120 Intensive Spanish I
6 hours; 6 credits
A beginning intensive course in fundamentals of expression and communication for those who have had no previous work in the language and are interested in pursuing upper-division courses in Spanish. By the end of the semester the student will have completed a program that provides a strong basis in the functional literacy in Spanish.
(foreign lang.)
Prerequisite: Passing the CUNY Assessment Test in Reading and Writing

SPN 213 Continuing Spanish I (Not Open to Native/Heritage Speakers)
4 hours; 4 credits
Grammar review and more intensive training in the fundamentals of expression and communication, both written and oral, based on selected cultural readings. Regu-
lar attendance in the World Languages and Literatures Media Center is required, closed to native speakers. (foreign lang.)
Prerequisite: SPN 114 or equivalent

SPN 215 Continuing Spanish II
4 hours; 4 credits
A continuation of SPN 213 with stress on written and oral composition and on selected cultural and literary readings of intermediate difficulty. Regular attendance in the World Languages and Literature Media Center is required. (foreign lang.)
Prerequisite: SPN 213 or equivalent

SPN 219 Intensive Spanish for Heritage Speakers
5 hours; 5 credits
A course that develops the linguistic assets of heritage speakers of Spanish to further enhance their written and spoken Spanish to achieve a minimum of intermediate proficiency as defined by the American Council on the Teaching of Foreign Languages. (ACTFL). (foreign lang.)
Prerequisite: Passing the CUNY Assessment Test in Reading and Writing and SPN 120

SPN 220 Intensive Spanish II
6 hours; 6 credits
A continuing intensive course in fundamentals of expression and communication for those who have successfully completed SPN 120, and are interested in pursuing upper-division courses in Spanish. Particular emphasis will be placed on written and oral communication based on selected cultural readings. (foreign lang.)
Prerequisite: SPN 119 or permission of the instructor

SPN 313 Advanced Communication Skills
4 hours; 4 credits
Refinement of written and oral expression through composition, translation, oral reports, and critical study of the Spanish grammar based on the analysis of selected literary readings of advanced difficulty. Regular attendance in the World Languages and Literatures Media Center is required. (literature) (TALA) NOTE: This course satisfies the College Option.
Prerequisite: SPN 215 or equivalent

SPN 315 Advanced Composition
4 hours; 4 credits
Designed to improve students’ written Spanish and to provide advanced training. Students will write in a variety of situations, learn to distinguish between spoken and written styles, and focus on problems of contrastive grammar. Emphasis is on developing fluency and accuracy in the written language. Regular attendance in the World Languages and Literatures Media Center is required.
Prerequisite: SPN 313 or equivalent

SPN 316 Introduction to Hispanic Linguistics
4 hours; 4 credits
This course is an introduction to topics in Hispanic linguistics. The course starts with the introduction of concepts that help students understand the nature of language, such as prescriptive and descriptive grammar, grammaticality judgments, linguistic prejudice, and the nature and goals of linguistic inquiry. Seven different areas of Hispanic linguistics are presented in the course: phonetics, phonology, morphology, syntax, history of the Spanish language, sociolinguistics, and acquisition of Spanish as a first and second language. The general goal of the course is to present a broad view of the nature of human language using Spanish as an example.
Prerequisites: SPN 313

SPN 319 Introduction to Translation
4 hours; 4 credits
Development of skills for reading and translating technical and literary, Spanish into English. Emphasis on the use of general and specialized dictionaries and other tools of the professional translator.
Prerequisites: SPN 313 or equivalent, and ENG 151 or ENG 152 or an ENH 200-level course

SPN 320 The Civilization of Spain
4 hours; 4 credits
A panoramic approach to the history, art, literature, and other aspects of Spanish civilization. (literature) (TALA) NOTE: This course satisfies the College Option.
Prerequisite: SPN 313 or equivalent

SPN 325 The Civilization of Pre-Colombian Spanish America
4 hours; 4 credits
The Mayan, Incan, and Aztec cultures of Pre-Columbian Spanish America. Taught bilingually. Readings and assignments in Spanish required for majors; readings and assignments may be done in English for non-majors. (literature) (p&d) (TALA) Note: This course satisfies the College Option.
Prerequisite: SPN 313 or equivalent

SPN 330 The Civilization of Spanish America through 1700
4 hours; 4 credits
The purpose of this course is to introduce the historical and cultural movements in Spain through the 1700s. This course will explore the main historical, literary, and cultural tendencies that occurred in Spain from the Middle Ages until the 18th century. Topics will include the link between literature, history, and the arts, society and its traditions. The student will study a main text on the civilization and the culture of Spain as well as selections of literary, critical, and/or artistic works related to the topics discussed in class. (literature) (TALA) NOTE: This course satisfies the College Option.
Prerequisite: SPN 313 or equivalent

SPN 339 Spanish Society and Literature
4 hours; 4 credits
This course starts with the introduction of concepts that help students understand the nature of language, such as prescriptive and descriptive grammar,
A survey of Spanish literature from medieval times through the Romantic period. (literature) (TALA) NOTE: This courses satisfies the College Option.
Prerequisite: SPN 313 or equivalent

**SPN 341 Spanish Society and Literature from 1700 to the Present**

4 hours; 4 credits
The purpose of this course is to introduce the historical and cultural movements in Spain from the 1700s to present times. This course will explore the main historical, literary, and cultural tendencies that occurred in Spain from the 18th century to 21st century. Topics will include: the link between literature, history, and the arts, society and its traditions. The student will study a main text on civilization and culture of Spain as well as selections of literary, critical, and/or artistic works related to the topics discussed in class. (literature) (TALA) NOTE: This courses satisfies the College Option.
Prerequisite: SPN 313 or equivalent

**SPN 342 Spanish American Society and Literature through Modernism**

4 hours; 4 credits
The purpose of this course is to introduce the student to the literature and sociocultural context of Spanish America from the pre-Colombian civilizations through the "modernismo" period at the end of the 19th century. Through the reading of historical accounts, essays, excerpts of novels, short stories, and poetry, as well as through the analysis of art, film, and music from the different regions, we will span over 400 years of Spanish American literature and culture up to the emergence of the independent American states. (literature) (TALA) NOTE: This courses satisfies the College Option.
Prerequisite: SPN 313

**SPN 343 Spanish American Society and Literature from Modernism to the 21st Century**

4 hours; 4 credits
The purpose of this course is to introduce the student to the literature and sociocultural context of Spanish America from the "modernismo" period at the end of the 19th century up to the most recent literary movements in the 21st century. Through the reading of historical accounts, essays, excerpts of novels, short stories, and poetry, as well through the analysis of art, film, and music from the different regions, we will span over a century of Spanish American literature and culture. (literature) (TALA) NOTE: This courses satisfies the College Option.
Prerequisite: SPN 313

**SPN 345 Spanish Theater**
(Also DRA 345)

4 hours; 4 credits
Discussion of ideas, background, and staging traditions of representative Spanish-language plays from the Golden Age to the present. The course is taught in English. Readings and assignments in Spanish required for majors; readings and assignments may be done in English for non-majors. (literature) (TALA) NOTE: This courses satisfies the College Option.

**SPN 346 Modernismo**

4 hours; 4 credits
The purpose of this course is to introduce the student to the "modernismo" period at the end of the 19th century. Through the reading of historical accounts, essays, excerpts of novels, short stories, and poetry, as well as through the analysis of art, film, and music from the different regions, we will span over 400 years of Spanish American literature and culture up to the emergence of the independent American states. (literature) (TALA) NOTE: This courses satisfies the College Option.
Prerequisite: SPN 313 or equivalent

**SPN 347 The Golden Age of Spanish Drama**
(Also DRA 425)

4 hours; 4 credits
Works by Cervantes, Lope de Vega, Tirso de Molina, Guillén de Castro, Mira De Amescua, Ruiz de Alarcón, Calderón de la Barca, Rojas Zorrilla, Agustín Moreto, and
SPN 430  Cervantes: Don Quixote and Other Works
4 hours; 4 credits
A study of the language, thought, and art of Cervantes as seen in his masterpieces. (literature) (TALA) NOTE: This course satisfies the College Option.
Prerequisite: SPN 313 or equivalent

SPN 450  The Modern Spanish Novel
4 hours; 4 credits
A study of Spanish novelists from Galdós to the present. (literature) (TALA) NOTE: This course satisfies the College Option.
Prerequisite: SPN 313 or equivalent

SPN 452  Studies in Spanish American Literature and Culture II
4 hours; 4 credits
Intensive study of selected topics in Spanish American Literature and Culture. The specific emphasis will vary from semester to semester. (literature) (TALA) NOTE: This course satisfies the College Option.
Prerequisite: SPN 313

SPN 453  Modernism and The Generation of 98
4 hours; 4 credits
This course examines the role of the Generation of 98 in late-19th and early-20th-century Spanish literature (1895-1936). The members of the Generation were deeply committed to the fervent political and cultural debate that began before 1898 and persisted until the Civil War. Recent research has also extolled the Modernist features of their works. In order to place the Generation of 98 in its historical, cultural, and literary contexts, this course discusses a selection of texts (prose, poetry, and drama), that show the concern of these “Noventayochistas” in the scrutiny of Spanish national identity and of its role in the Spanish decadence that led to the 1898 crisis; Spanish politics from the 1880s to the Civil War; the impact of the crisis in the early-20th-century novel, poetry and drama; the representations of Modernism; and the influence of the Generation of 98 upon later literary groups, especially Novecentismo. (literature) (TALA) NOTE: This course satisfies the College Option.
Prerequisite: SPN 313

SPN 455  The Modern Spanish American Novel
4 hours; 4 credits
Reading and interpretation of the works of representative modern and contemporary writers from several Spanish American countries. (literature) (TALA) NOTE: This course satisfies the College Option.
Prerequisite: SPN 313 or equivalent

SPN 459  Studies in Peninsular Spanish Literature and Culture II
4 hours; 4 credits
Intensive study of selected topics in Peninsular Spanish Literature and Culture. The specific emphasis will vary from semester to semester. (literature) (TALA) NOTE: This course satisfies the College Option.
Prerequisite: SPN 313

SPN 462  Lorca and the Spanish Poetry of the 20th Century
4 hours; 4 credits
The works of Lorca, Machado, Unamuno, J.R. Jiménez, Aleixandre, Guíllén, Cernuda, and Salinas will be considered. (literature) (TALA) NOTE: This course satisfies the College Option.
Prerequisite: SPN 313 or equivalent

SPN 463  Spanish American Poetry from Modernism to the 21st Century
4 hours; 4 credits
The purpose of this course is to introduce the student to a panoramic survey of Spanish American poetry. We will begin with the irruption of “modernismo,” an innovative trend through which poets such as Rubén Darío, José Martí, and Manuel Gutiérrez Nájera imported European models and renovated Spanish American poetry. The course will then study the various Spanish American avant-garde movements to conclude with the most important poetic projects of the second half of the 20th century, including the works of Octavio Paz, Nicanor Parra, José Lezama Lima, and Jorge Luis Borges. (literature) (TALA) NOTE: This course satisfies the College Option.
Prerequisite: SPN 313

SPN 465  Spanish Theater in the 20th Century
(Also DRA 465) 4 hours; 4 credits
Principal tendencies in Spanish theater in the 20th century. Including an analysis of the major works of dramatists such as Benavente, Valle-Inclán, García Lorca, Mihura, Buero Vallejo, Alfonso Sastre, Carlos Muniz, Lauro Olmo, Arrabal, Antonio Gala, and others. (literature) (TALA) NOTE: This course satisfies the College Option.
Prerequisite: SPN 313 or equivalent

SPN 470  Spanish American Theater in the 20th Century
4 hours; 4 credits
A study of the main trends and an analysis of the most significant plays of contemporary Spanish American playwrights. (literature) (TALA) NOTE: This course satisfies the College Option.
Prerequisite: SPN 313 or equivalent

SPN 475  The Contemporary Spanish American Short Story
4 hours; 4 credits
Readings and discussion of the works of outstanding contemporary authors. (literature) (TALA) NOTE: This course satisfies the College Option.
Prerequisite: SPN 313 or equivalent

SPN 480  Literature of the Hispanic Caribbean
4 hours; 4 credits
Reading and discussion of literary works of outstanding modern and contemporary Cuban, Dominican, and Puerto Rican authors. (TALA)

(p&d) NOTE: This course satisfies the College Option.

**Student Professional Development**

Division of Student and Enrollment Services  
Building 1A, Room 301  
Office of the Vice President of Student and Enrollment Services  
Vice President, Jennifer S. Rubain, Esq.

Students who enter the College with fewer than six credits are required to complete a Student Professional Development course, SPD 101 Issues in College Life, or SKO 100 Freshman Orientation (open only to SEEK students), or to complete the non-credit College Life Unit Experience Program (CLUE). See the section on Degree Requirements for the New Student Orientation requirement. Other courses offered by the department do not meet the New Student Orientation requirement.

**SPD 101 Issues in College Life**  
2 hours; 1 credit  
A developmental overview of college life. Emphasis is placed on those concepts and skills that relate to broader life issues. Through discussion of the individual’s educational goals, attitudes, and values, the student explores the learning community, educational options, choices, and techniques to improve study and college survival skills. The course is graded on a pass/fail basis. Not to be taken in the same semester with SPD 102.

**SPD 102 Career Development**  
2 hours; 1 credit  
Factors to be considered in career decision making; the value and limitations of test data; clarification of work values; mid-career change; non-traditional careers; trends in the world of work; career opportunities in various professional, technical, and business fields; the changing labor market; reasons for attending college; educational options; job finding techniques (resources, résumés, interviews).

**SPD 105 Personal Growth and Development**  
2 hours; 1 credit  
Exploration of personal growth, individual differences and their origins, methods of coping with stress, and personality change. The focus is on the development of the self and the influence of external and internal forces on it. Strategies for coping with life’s challenges will be discussed and explored.

**Women’s, Gender, and Sexuality Studies**

(Bachelor of Arts, Minor)  
Interdisciplinary Program  
Director: Associate Professor Matt Brim, Building (2S), Room 214

Women’s, Gender, and Sexuality Studies is an interdisciplinary program that draws on anthropological, artistic, economic, historical, literary, psychological, and sociological perspectives to explore women’s lives, and the significance of gender in general, in contemporary and past societies both in the United States and across the globe.

**Women’s, Gender, and Sexuality Studies (BA)**

Major Requirements: 36-40 credits

**WGS 201 Introduction to Women’s Gender, and Sexuality Studies**  
Women’s, Gender, and Sexuality Studies, with at least 12 credits at the 300 level or higher, including:

1. At least one WGS course with a focus in history, American studies, or African and African Diaspora studies from among the following:
   - WGS 217 Introduction to Women's History
   - WGS 286 History of American Women
   - WGS 386 The Recovery of Women's Past
   - WGS 389 Themes in American Women’s History

2. At least one WGS course with a focus in English, modern languages, or arts from among the following:
   - WGS 222 Women and Literature
   - WGS 256 Women in European Literature
   - WGS 266 Women in European Literature to the Renaissance
   - WGS 267 Women in European Literature after the Renaissance
   - WGS 270 Women and the Fine Arts
   - WGS 280 Introduction to Women’s Written Expression
   - WGS 348 Women Novelists
   - WGS 353 The Feminist Challenge in French Literature
   - WGS 368 Queer Studies
   - WGS 369 Gender and the Negotiation of Difference
   - WGS 384 Major Woman Author I
   - WGS 385 Major Woman Author II
   - WGS 387 Major Woman Author III
   - WGS 390 Women in Literature and the Arts
   - WGS 442 Women’s Written Expression

Prerequisite: SPN 313 or equivalent
3. At least one WGS course with a focus in psychology, sociology, or anthropology from among the following:

   - WGS 202 Gender, Race, Ethnicity, and Class
   - WGS 230 Sociology of Women
   - WGS 234 Anthropology of Women
   - WGS 235 Gender and Sexuality
   - WGS 238 Sociology of Men
   - WGS 268 Psychology of Women
   - WGS 312 Food, Self and Society
   - WGS 330 Women and Work
   - WGS 340 Mentoring and Adolescent Development
   - WGS 420 Birth and Death

4. Additional WGS courses from either those listed in categories 1-3 above or those listed below:

   - WGS 203 Gender in the Contemporary World
   - WGS 240 Sex Roles and the Law
   - WGS 272 Women as Creative Persons
   - WGS 300 Research Problems in Feminism
   - WGS 304 Non-Sexist Education
   - WGS 306 Community Workshop
   - WGS 490 Gender-Based Activism Internship

5. Foreign Language Requirement: 0-4 credits
   Demonstration of proficiency in a foreign language through the intermediate level, 213 or above.

Electives: 38-42 credits

Total Credits Required: 120

Honors
Graduating Women’s, Gender, and Sexuality Studies majors may apply for graduation with honors in Women’s, Gender, and Sexuality Studies. To graduate with honors a student must have:

1. Fulfilled the requirements for the Women’s, Gender, and Sexuality Studies major
2. Earned a 3.5 grade point average or better in WGS courses
3. Been recommended for Honors by the Women’s, Gender, and Sexuality Studies Honors Committee. To be recommended, a student must have submitted a proposal for an honors thesis and have completed this thesis to the satisfaction of the Honors Committee.

The honors thesis should be a substantial research paper supervised by a committee of two Women’s, Gender, and Sexuality Studies faculty members. One member of this committee will be the primary supervisor with whom the student will register for up to eight credits of Independent Study. Candidates should ask a Women’s, Gender, and Sexuality Studies faculty member of their choosing to be their primary supervisor. The primary supervisor and the program coordinator will appoint the other member of the candidate’s committee in consultation with the candidate. The thesis submitted need not be a new work; it can be an extension of a paper previously submitted in a course. Theses submitted to the Honors Committee Chair must have the signature of both members of the candidate’s committee on the title page.

Students planning to apply for graduation with honors must submit a one-page proposal for their Honors thesis, signed by the members of their committee, to the Women’s, Gender, and Sexuality Studies Honors Committee in the final semester of their junior year. Honors thesis for majors graduating in January must be submitted to the Women’s, Gender, and Sexuality Studies office (Building 2N, Room 105) by November 20; for majors graduating in June or August, thesis must be submitted by April 1.

Women’s, Gender, and Sexuality Studies Minor

Minor Requirements: 15-16 credits
A total of 15-16 credits in Women’s, Gender, and Sexuality Studies courses, with at least 12 credits at the 200-level or higher, including:

1. At least one WGS course with a focus in history, American studies, or African and African Diaspora studies, as listed for the major requirements.
2. At least one WGS course with a focus in English, modern languages, or arts, as listed for the major requirements.
3. At least one WGS course with a focus in psychology, sociology, or anthropology, as listed for the major requirements.
4. One additional WGS course, as listed for the major requirements.

Women’s, Gender, and Sexuality Studies Courses

WGS 100 Women’s History and Feminist Theory
(Also HST 182)
3 hours; 3 credits
This course explores both the history of women’s experience and feminist interpretations of their historical condition. Emphasis is on the development of analytic and writing skills. (social science) NOTE: This course satisfies the College Option.

WGS 201 Introduction to Women’s, Gender, and Sexuality Studies
4 hours; 4 credits
An introduction to the study of women, gender (including femininity and masculinity), and sexuality as they have developed over time, paying particular attention to the importance of political engagement and social movements and to markers/questions of difference, such as race, ethnicity, class, religion, and physical ability. The course will highlight the interdisciplinary nature of the study of women, gender, and sexuality, exposing students to a range of foundational texts including film, performance, literature, and other relevant media. (p&d) (TALA) (social science). NOTE: This course may count for either TALA or for Social Science, but not for both. This course satisfies the College Option.
Prerequisites: ENG 151, COR 100

**WGS 202 Gender, Race, Ethnicity, and Class**  
(Also SOC 202)  
4 hours; 4 credits  
How gender, race, ethnicity, and class interact with each other and influence personal identities, opportunities, and life experiences. The effects of these factors on attitudes and ideology, from the perspectives of scholars to those of political groups within and among nation-states. The effects of political economy and the division of labor on gender, race, and class. (social science) (p&d) NOTE: This course satisfies the College Option.  
Prerequisites: ENG 115, COR 100

**WGS 203 Gender in the Contemporary World**  
(Also INT 203)  
4 hours; 4 credits  
An introduction to issues of gender worldwide. This interdisciplinary course draws on literary, cultural, social scientific, and historical approaches to explore the significance of gender in societies in Africa, Asia, Latin America, and the Middle East, and to enable students to think critically about gender issues. (social science) (cont.wrld.) (p&d) NOTE: This course satisfies the College Option.  
Prerequisites: ENG 115, COR 100

**WGS 217 Introduction to Women's History**  
(Also HST 217)  
4 hours; 4 credits  
An overview of the history of women and the role of gender in history, focusing especially on the period since the 1700s. The course will examine key texts regarding women and their status in world history and address the development of the discipline of women's history within the larger field of women's studies. For History majors and minors, this is designated as a world history course. (social science) (p&d) NOTE: This course satisfies the College Option.  
Prerequisites: ENG 111, COR 100

**WGS 222 Women and Literature**  
(Also ENH 222)  
4 hours; 4 credits  
A study of works by and about women drawn from a variety of periods and genres. (literature) (p&d) (TALA) NOTE: This course satisfies the College Option.  
Prerequisites: ENG 151

**WGS 230 Sociology of Women**  
(Also SOC 230)  
4 hours; 4 credits  
Social and cultural forces affecting women's lives. The problems, struggles, and accomplishments of women in social and historical contexts. Changing sex roles and relationships as affected by ethnicity, race, and class. (social science) (p&d) NOTE: This course satisfies the College Option.  
Prerequisites: ENG 111, COR 100

**WGS 235 Gender and Sexuality**  
(Also PSY 235)  
4 hours; 4 credits  
A critical examination of the way in which human sexual functioning has been viewed by both women and men. Critical consideration of theories of sexuality in psychology, including psychoanalytic, evolutionary, social constructionist, and feminist theories of sexuality. Evaluation of recent research on AIDS/HIV, lesbian and gay issues, sexual violence against women, and sex education. Special attention to cultural factors that influence women's and men's understandings of their sexuality and of other sexually transmittable diseases. Present problems and practices as well as future possibilities will be discussed. (social science) (p&d) NOTE: This course satisfies the College Option.  
Prerequisite: ENG 115

**WGS 238 Sociology of Men**  
(Also SOC 238)  
4 hours; 4 credits  
Comparative historical perspectives on the male gender role and male dominance through social institutions and male gender role socialization. Issues regarding the relationships of men with each other as well as between men and women. (social science) (p&d) NOTE: This course satisfies the College Option.  
Prerequisites: ENG 111, COR 100

**WGS 240 Sex Roles and the Law**  
4 hours; 4 credits  
Examination of the legal rights of women and men in employment, marital law, housing, and other areas where sex discrimination can be observed.

**WGS 266 Women in European Literature to the Renaissance**  
(Also LNG 266)  
4 hours; 4 credits  
Women as writers and characters in European literature from classical antiquity to the Renaissance. (literature) (p&d) (TALA) NOTE: This course satisfies the College Option.  
Prerequisites: ENG 111, ENG 151

**WGS 267 Women in European Literature after the Renaissance**  
(Also LNG 267)  
4 hours; 4 credits  
Women as writers and characters in European literature from the Renaissance to modern times. (literature) (p&d) (TALA) NOTE: This course satisfies the College Option.  
Prerequisites: ENG 111, ENG 151
WGS 268  Psychology of Women  
(Also PSY 268)  
4 hours; 4 credits  
A critical review of theories and issues concerning the psychology of women. Theories of gender including biological, psychoanalytic, and social learning, among others, will be discussed. Issues particularly relevant to the lives of women and to the psychology of gender will be explored including gender stereotypes, physical and mental health issues, sexuality, personal relationships, and violence against women. (social science) (p&d) NOTE: This course satisfies the College Option.  
Prerequisite: PSY 100

WGS 270  Women and the Fine Arts  
(Also ART 240)  
4 hours; 4 credits  
This course examines the two-fold relationship of women to the fine arts; their role as subjects and as artists. Topics such as the portrayal of women as goddess, mother and housewife, and as artist will be undertaken with a view to the social and historical input and implications of this imagery. The circumstances of women artists from the Renaissance to the present will also be considered. (arts & com.) (p&d) (TALA) NOTE: This course satisfies the College Option.  
Prerequisites: ENG 111, and WGS 100 or ART 100 or 103 or 104

WGS 271  Women and Film  
(Also CIN 271)  
4 hours; 4 credits  
Explores the historical trajectory of the representation and self-representation of women in film, with particular attention to the significant developments in the status and achievements of women as stars, screenwriters, directors, consumers, and spectators. Screenings of key films, techniques of critical analysis of the moving image, weekly readings, discussions, and lectures, will all help to shape this consideration of film representations of what gender is, and what it has produced, over a period of more than 100 years.  
Prerequisite: ENG 151

WGS 272  Women as Creative Persons  
4 hours; 4 credits  
Exploration of women's aesthetic in the visual arts.

WGS 280  Introduction to Women's Written Expression  
(Also ENL 280)  
4 hours; 4 credits  
A course to develop skills in both imaginative and critical writing based primarily on the student's personal experiences with some analysis of poetry and short stories written by selected women authors.  
Prerequisite: ENG 151

WGS 286  History of American Women  
(Also HST 286)  
4 hours; 4 credits  
This course introduces students to broad themes in American women's history from colonial times to the present and focuses on women as historical actors and on the historical forces shaping the construction of womanhood. The course will pay particular attention to differences among women with respect to race, class, ethnicity, and sexual orientation. (social science) (p&d) NOTE: This course satisfies the College Option.  
Prerequisites: ENG 111, and COR 100 or any college-level history course

WGS 300  Research Problems in Feminism  
4 hours; 4 credits  
Review of current feminist research emphasizing specific problems. Students will complete original research projects.

WGS 305  Women in Latin America  
(Also HST 305)  
4 hours; 4 credits  
This course traces the history of women in Latin America from the late colonial era to the present. Women's lives in Latin America challenge many common assumptions about gender learned in the United States. Latin America is a region where patriarchal legal systems exist alongside economic enclaves owned and operated almost completely by women. Our goal will be to map out the differences between and commonalities among Latin American women's lives and understand how these lives changed over time. Our exploration of the question of change leads us to examine as well the major political, economic, and social trends in Latin American history, asking how women's choices contributed to them, as well as how women's lives were affected by them.  
For history majors and minors, this is designated a World History course.  
Prerequisite: Any 200-level history course and ENG 151

WGS 306  Community Workshop  
4 hours; 4 credits  
This course will provide students with an opportunity to learn about and discuss methods for social change, to plan their own fieldwork, and to evaluate its effectiveness.

WGS 312  Food, Self, and Society  
(Also SOC 312 and ANT 312 and GEG 312)  
4 hours; 4 credits  
A sociological, anthropological, and geographical examination of the ways in which the production and consumption of food shape and are shaped by the self and the social world. A major theme of the course will be the gendering of food through topics such as women's traditional roles as home cooks, women laborers in global food production, and female body image. Particular attention will be given to the meaning of practices of eating, preparing and sharing food for the individual, family, community and nation, and how these practices are influenced by larger forces such as social inequality and globalization. Students are expected to conduct primary research.  
Prerequisites: ENG 151, ANT 201 or SOC 201

WGS 330  Women and Work  
(Also SOC 330, ANT 331)  
4 hours; 4 credits  
The social and cultural constraints affecting women's participation and attainments in the world of work. Conflicts
between work role expectations and gender role expectations (e.g., femininity, nurturance, maternity). The effects of class background and race/ethnicity on women’s occupations, professions, and incomes. (social science) (p&d) NOTE: This course satisfies the College Option. Prerequisites: ENG 151 and (any 200-level ANT or SOC course or WGS 230 or WGS 238)

WGS 340 Mentoring and Adolescent Development
(Also PSY 340)
3 classroom hours, 2 fieldwork hours; 4 credits
Introduction to the developmental concerns and clinical skills needed to form mentoring relationships with at-risk adolescent populations. Coursework entails review of the literature on mentoring as well as specific issues regarding adolescent development, with an emphasis on gender identity. Other topics addressed may include race, ethnicity, class, and sexual orientation. Students do on-site mentoring under faculty supervision and have the opportunity to evaluate these fieldwork experiences in class.
Prerequisites: Permission of the instructor, a minimum of 45 credits completed, and successful completion of PSY 226 or PSY 242

WGS 348 Women Novelists
(also ENL 348)
4 hours; 4 credits
Significant novels by such women authors as Jane Austen, George Eliot, Elizabeth Gaskell, Willa Cather, Virginia Woolf, Doris Lessing, Jean Rhys. For English majors and minors, this is designated as a literature, genre, and Literature written by women, American minorities, world literature, writers in Asia (including the Middle East), Africa, Latin America, and the Caribbean. (p&d) (TALA) NOTE: This course satisfies the College Option.
Prerequisite: An ENH 200-level course or ENL 290

WGS 353 The Feminist Challenge in French Literature
(Also FRN 350)
4 hours; 4 credits
A study of the most important women writers in French literature, focusing primarily on selected works of Christine de Pisan, Marguerite de Navarre, Madame de Staël, George Sand, Colette, Simone de Beauvoir, Françoise Sagan, Nathalie Sarraute. Taught in French. (literature) (TALA) NOTE: This course satisfies the College Option.
Prerequisite: FRN 313 or equivalent

WGS 355 Contemporary Issues in Human Sexuality
(Also PSY 355)
4 hours; 4 credits
This course focuses on current issues in the psychological study of human sexuality, with an emphasis on social psychological perspectives. It will review contemporary debates in the psychological theory and research on human sexuality. It will begin with an overview of current theories, research methods, and issues related to the study of sexuality in psychology. It will then cover current controversies in the measurement of sexuality, theories of sexual desire, debates about sexual pathologies and treatments, the impact of technology on sexuality, and conclude with a few unresolved issues and future directions.
Prerequisites: PSY 235

WGS 368 Queer Studies
(Also ENL 368)
4 hours; 4 credits
An introduction to the field of lesbian/gay/bisexual/transgender and queer studies. Readings will be drawn from a variety of literary and critical works that explore sexual identity categories and their meaning in culture. For English majors and minors, this is designated as a literature, genre, and Literature written by women, American minorities, world literature, writers in Asia (including the Middle East), Africa, Latin America, and the Caribbean. (p&d) (TALA) NOTE: This course satisfies the College Option.
Prerequisite: ENG 151
Pre- or corequisite: An ENH 200-level course or ENL 290

WGS 369 Gender and the Negotiation of Difference
(Also ENL 369)
4 hours; 4 credits
A study of intersections of gender with race, class and/or sexualities, in various literary genres and national traditions. For English majors or minors concentrating in literature, this course fulfills the requirements for Literature written by women, American minorities, or writers in Asia (including the Middle East), Africa, Latin America and the Caribbean. For linguistics, writing, and dramatic literature concentrators, it counts as an elective in the major.
Prerequisite: An ENH 200-level course or ENL 290

WGS 375 Sex and Society
(Also SOC/ANT 375)
4 hours; 4 credits
An overview of the diverse ways that human beings think about, organize, and experience sexuality, sex and gender roles and identities, intimacy and love, marriage, domestic and sexual labor, and other forms of intimate human relationships. We will critically examine the development of sexuality as an object of study within the social sciences while exploring different theoretical approaches and concepts developed to understand it. We will consider various questions, including: what counts as sex? How have constructions of sexuality varied in different social and historical contexts and why? How are the ideologies and regulation of sexuality and gender related to power, social inequality, and the material realities of the political economy and people’s everyday lives? The course has a transnational perspective, and focuses particular attention on differences and similarities in the experience of sexual relationships across lines of gender, sex, class, race, and sexual orientation.
Prerequisites: ENG 151, COR 100

WGS 380 Women in Performance
(Also DRA 380)
4 hours; 4 credits
This class is a study of performing women, in particular women performance artists, who have made a significant difference in helping women’s images and voices achieve greater representation in culture as a whole. Students will study works by the artists, reviews, and critical writing about the works, and create their own performances.

Prerequisites: Any 200-level ENH or WGS course

WGS 384 Major Woman Author I
(Also ENL 384)
4 hours; 4 credits
Intensive study of the works of a major woman author. For English majors and minors, this is designated as a literature and Literature written by women, American minorities, or writers in Asia (including the Middle East), Africa, Latin America and the Caribbean. (p&d) (TALA) NOTE: This course satisfies the College Option.

Prerequisite: An ENH 200-level course or ENL 290

WGS 385 Major Woman Author II
(Also ENL 385)
4 hours; 4 credits
Intensive study of the works of a major woman author. For English majors and minors, this is designated as a literature and Literature written by women, American minorities, or writers in Asia (including the Middle East), Africa, Latin America and the Caribbean. (p&d) (TALA) NOTE: This course satisfies the College Option.

Prerequisite: An ENH 200-level course or ENL 290

WGS 386 The Recovery of Women's Past
(Also HST 386)
4 hours; 4 credits
An examination of the history of women, beginning with ancient and classical notions of patriarchy in Mediterranean and Near Eastern cultures. Review of Jewish, Christian, and Islamic prescriptions about women as a basis for understanding the changes in modern Western history. Approximately half of the course will examine the past two centuries when women’s movements, feminisms, gender analysis, and sexual liberation evolved. (social science) (p&d) NOTE: This courses satisfies the College Option.

Prerequisites: Any 200-level history course and ENG 151

WGS 387 Major Woman Author III
(Also ENL 386)
4 hours; 4 credits
Intensive study of the works of a major woman author. For English majors and minors, this is designated as a literature and Literature written by women, American minorities, or writers in Asia (including the Middle East), Africa, Latin America and the Caribbean. (p&d) (TALA) NOTE: This course satisfies the College Option.

Prerequisite: An ENH 200-level course or ENL 290

WGS 389 Themes in American Women's History
(Also HST 389)
4 hours; 4 credits
An exploration of selected themes in American women's history from the colonial era to the present. This course, which is organized either around a chronological period, a thematic topic, or a geographical region, also examines women’s historical methodology and literature. (social science) (p&d) NOTE: This courses satisfies the College Option.

Prerequisites: Any 200-level history course and ENG 151

WGS 390 Studies in Women in Literature and the Arts
(Also ENL 390)
4 hours; 4 credits
This course examines women’s literature, art, and film as shaped by national culture, historical circumstances, class, and age. For English majors and minors, this is designated as a literature, Literature in Translation, Genre, and Literature written by women, American minorities, or writers in Asia (including the Middle East), Africa, Latin America and the Caribbean. (p&d) (TALA) NOTE: This course satisfies the College Option.

Prerequisite: An ENH 200-level course or ENL 290

WGS 420 Birth and Death
(Also SOC 420)
4 hours; 4 credits
An exploration of the different sociological renderings of birth and death in contemporary societies. Understanding the concepts of birth and death from a sociological perspective offers an excellent opportunity to explore the intersections of race, class, gender, spirituality, and age. This course will be heavily geared toward feminist and critical perspectives. It will explore recent technological innovations and their implications for representations of conception, birth, and death.

Prerequisites: ENG 151 and (any 200-level ANT or SOC course or WGS 230 or WGS 238)

WGS 442 Women’s Written Expression
(Also ENL 442)
4 hours; 4 credits
A seminar to develop skills in both imaginative and critical writing, incorporating an analysis and comparison of the stylistic developments of women authors.

Prerequisites: ENG 111, ENG 151

WGS 490 Gender-Based Activism Internship
10 hours internship, 1 hour seminar; 4 credits
An experience in activism in which students collaborate to build and extend a feminist community on campus and strengthen ties between the Women's Center and organizations on Staten Island that serve women and gender/sexuality equality. Interns develop skills for activism as they plan and run events that support women and others concerned with gender and sexuality. The course includes a one-hour weekly seminar in which students place their experience in the context of feminist history, theory, and/or the practice of other activists. The course is open to WGS majors and minors, and students from other majors who have taken at least 30 credits and who have completed coursework in WGS. This course may be repeated once for credit.

Prerequisites: Sophomore standing, any 200- or 300-level WGS course, and permission of instructor.
Faculty and Staff

Faculty and Staff A-D

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Appendix

Students Rights and Responsibilities and College Regulations

The College of Staten Island of the City University of New York

Appendix i - Policy on Student Conduct

For information please visit the Policy on Student Conduct.

Appendix ii - Computer User Responsibilities

The computer resources of The City University of New York and the College of Staten Island must be used in a manner that is consistent with the University's educational purposes and environment. All users of computer resources are expected to act in a spirit of mutual respect and cooperation, and to adhere to the regulations for their use set forth in this document. As a user of CUNY computer resources:

- You are required to have a valid authorized account to use computer resources that require one and may use only those computer resources that are specifically authorized. You may use your account only in accordance with its authorized purposes and may not use an unauthorized account for any purpose.
- You are responsible for the safeguarding of your computer account. For a mainframe computer account, you should change your password frequently and should not disclose it to anyone. You should take all necessary precautions in protecting the account, no matter what type of computer resource is being used.
- You may not circumvent system protection facilities.
- You may not knowingly use any system to produce system failure or degraded performance.
- You may not engage in unauthorized duplication, alteration or destruction of data, programs or software. You may not transmit or disclose data, programs or software belonging to others and may not copy material protected by copyright.
- You may not engage in abusive or improper use of computer hardware. This includes, but is not limited to, tampering with equipment, unauthorized attempts at repairing equipment and unauthorized removal of equipment components.
- You may not use computer resources for private purposes, including, but not limited to, the use of computer resources for profit-making or illegal purposes.
- You may not use computer resources to engage in abuse of computer personnel or other uses. Such abuse includes the sending of abusive or obscene messages within CUNY or beyond via network facilities.
- The use of college computer resources may be subject to college regulations, and you are expected to be familiar with those regulations.
- These regulations and college regulations are subject to revision. You are expected to be familiar with any revisions in the regulations.

The University reserves the right to monitor, under appropriate conditions, all data contained in the system to protect the integrity of the system and to ensure compliance with regulations.

Any user who is found to be in violation of these rules is subject to the following:

- Suspension and/or termination of computer privileges;
- Disciplinary action by appropriate college and/or University officials;
- Referral to law enforcement authorities for criminal prosecution;
- Other legal action, including action to recover civil damages and penalties.

“Computer Resources” is an inclusive term referring to any and all computing/information technology: hardware, software, and access. Hardware includes, but is not limited to, terminals, personal computers, workstations, printers, wire, monitors, cabling, peripheral devices. Software includes, but is not limited to, mainframe shared software, networked software, and stand-alone software residing on personal computers. Access includes, but is not limited to, accounts on timesharing systems as well as access to stand-alone personal computing systems and other relevant technology.

Appendix iii - CUNY Policy on Academic Integrity

For more information please visit the CUNY Policy on Academic Integrity.
Faculty Report Form
It is necessary to complete this form to report an incident of suspected and/or resolved academic dishonesty. Make a copy for your records and forward the original, along with copies of all available supporting documentation, to the:

Office of the Academic Integrity Officer
[Fill in name of college]
Instructor Name:
Dept: ___________________________ Tel.No: _______ email: ___________________________
Course: ___________________________ Section: ___________________________ Semester: ________________
Student Name: ___________________________ Student ID#: ___________________________
Date of Incident: ___________________________
Type of Incident: Cheating ________ Plagiarism ________ Other
Description of Incident: __________________________________________________________

Did the student admit to the charge of cheating, plagiarism or other act of academic dishonesty? Yes_____ No_____ Student could not be contacted _____
Explanation ________________________________________________________________

Explanation of recommended sanction __________________________________________________________

Signature of Faculty Member ___________________________ Date ________________
Resolution of the Case after Adjudication
Academic sanction __________________________________________________________
Disciplinary sanction __________________________________________________________
Signature of Academic Integrity Officer ___________________________ Date ________________

Appendix iv - Immunization Requirement
New York State law requires that students attending postsecondary institutions be immunized against measles, mumps, and rubella. Specifically, all matriculated students born on or after January 1, 1957 must file a form with the Medical Office, signed by a physician, certifying immunity to these diseases prior to registering for more than five credits.

Appendix v - New York State Education Law Section 224-a
Students unable because of religious beliefs to register or attend classes on certain days:
1. No person shall be expelled from or be refused admission as a student to an institution of higher education for the reason that he/she is unable, because of his/her religious beliefs, to register or to attend classes or to participate in any examination, study, or work requirements on a particular day or days.
2. Any student in an institution of higher education who is unable, because of his/her religious beliefs, to register or attend classes on a particular day or days shall, because of such absence on the particular day or days, be excused from any examination or any study or work requirements.
3. It shall be the responsibility of the faculty and of the administrative officials of each institution of higher education to make available to each student who is absent from school, because of his/her religious beliefs, an equivalent opportunity to register for classes or to make up any examination, study, or work requirements which he/she may have missed because of such absence on any particular day or days. No fees of any kind shall be charged by the institution for making available to the said student such equivalent opportunity.
4. If registration, classes, examinations, study, or work requirements are held on Friday after four o’clock post meridian or on Saturday, similar or makeup classes, examinations, study, opportunity to register, or work requirements shall be made available on other days, where it is possible and practicable to do so. No special fees shall be charged to the student for these classes, examinations, study, registration, or work requirements held on other days.
5. In effectuating the provisions of this section, it shall be the duty of the faculty and of the administrative officials of each institution of higher education to exercise the fullest measure of good faith. No adverse or prejudicial effects shall result to any student because of his or her availing himself or herself of the provisions of this section.
6. Any student, who is aggrieved by the alleged failure of any faculty or administrative officials to comply in good faith with the provisions of this section, shall be entitled to maintain an action or proceeding in the supreme court of the county in which such institution of higher education is located for the enforcement of his/her rights under this section.
6-a. It shall be the responsibility of the administrative officials of each institution of higher education to give written notice to students of their rights under
Appendix vi - Rights Concerning Education Records
For information on the CUNY Policy on Rights Concerning Education Records please visit www.csi.cuny.edu/currentstudents/FERPA.pdf.

Appendix vii - Policy on Non-Discrimination
It is the policy of The City University of New York—applicable to all colleges and units—to recruit, employ, retain, promote, and provide benefits to employees and to admit and provide services for students without discriminating on the basis of actual or perceived race, color, creed, national origin, ethnicity, ancestry, religion, age, sex, sexual orientation, gender identity, marital status, partnership status, disability, genetic information, alienage, citizenship, military or veteran status, pregnancy, status as a victim of domestic violence/stalking/sex offenses, unemployment status, caregiver or familial status, prior record of arrest or conviction, or any other legally prohibited basis in accordance with federal, state and city laws. This policy is set forth in CUNY’s Policy on Equal Opportunity and Non-Discrimination.

CUNY’s Policy on Sexual Misconduct prohibits all forms of sexual misconduct, including sexual harassment, gender harassment and sexual violence. Inquiries concerning sexual misconduct or sex discrimination may be made to the individuals specified in that Policy or may be referred to the U.S. Department of Education, Office for Civil Rights.

Appendix viii - Reasonable Accommodations and Academic Adjustments Policy
The City University of New York and the College of Staten Island (“the College” or “CSI”), in compliance with Sections 503 and 504 of the Federal Rehabilitation Act of 1973 (“Rehabilitation Act”), the Americans with Disabilities Act of 1990 (“ADA”), New York State Executive Law §296, and New York City Human Rights Law, provides qualified individuals with disabilities the opportunity to participate in programs, activities, or employment.

For the full policy please visit the Reasonable Accommodations and Academic Adjustments.
Appendix ix - Policy on Sexual Misconduct
For more information please visit the Policy on Sexual Misconduct.

Appendix x - Campus Safety and Security
The Campus is patrolled by uniformed Campus Peace Officers 24 hours a day 365 days a year. The Public Safety Office is located in building 2A room 108. There are two Public Safety satellite desks located at the front entrance of the campus center (1C) and the lobby of the Library (1L). The Office of Public Safety is charged with the maintenance of security and personal safety of all members of the College community and visitors while on campus. All students and members of the faculty and staff are required to have a valid, updated college identification card in their possession while on campus.

Crime Awareness and Campus Security Act
The Federal Crime Awareness and Campus Security Act of 1990 mandates that every college in the nation publicize the incidents of crime reported on its campus. For more information please visit the College of Staten Island’s Annual Security Report.

Tobacco Policy
The College complies with The City University policy prohibiting the use of tobacco on all grounds and facilities under CUNY jurisdiction, including indoor locations and parking lots; outdoor locations such as playing fields; entrances and exits to buildings; and smoking, which prohibits smoking inside all facilities of the College; tobacco industry promotions, advertising, marketing, and distribution of marketing materials on campus properties; and tobacco industry sponsorship of athletic events and athletes. For more information on please visit the CUNY Tobacco Free Policy website http://www.cuny.edu/about/resources/healthycuny/tobaccofree/DevelopmentofTobaccoFreePolicy.html.

The City University of New York Campus and Workplace Violence Policy
For more information please visit The City University of New York Campus and Workplace Violence Prevention Policy.
Directions and Parking

By Bus
Buses on the Victory Boulevard route stop at the main entrance to the College. Buses on the Forest Hill Road route stop at the East entrance to the College.

Victory Boulevard buses - St. George/Travis
S62 - frequent weekday service and service every 30 minutes on Saturdays and Sunday. From 8:30am to 11:30pm to the ferry, and from 7:30am to 12:20am from the ferry; the S62 makes a stop inside the Victory Boulevard entrance to the campus.
S92 - commuter schedule from Travis every 15 minutes from 6:30am to 7:42am and from St. George every 15 minutes from 4:50pm to 6:00pm.

Richmond Avenue buses - North/South route
The Richmond Avenue and Victory Boulevard stop is two blocks from the entrance to the campus.
S44 - frequent service on weekdays and runs every 30 minutes on Saturday and Sunday.
S59 - every 30 minutes every day.

Forest Hill Road buses - South Shore/St. George route
S61 - frequent daily and weekend service.
S91 - commuter schedule weekdays.

Brooklyn buses
S53 Bay Ridge - 95th Street/Port Richmond
Frequent weekday service; stops at Victory Boulevard for transfer to S62 or S92.
S93 The S93 runs limited service Monday-Friday between 86th Street and 4th Avenue R subway station in Brooklyn and the College. This route eliminates bus transfer and saves you up to 15 minutes a trip.

Manhattan/Staten Island Express bus
X-10 Express bus - frequent daily schedule from 57th Street and 3rd Avenue to Victory Boulevard and the return route; stops at the campus main entrance.
Call 718.330.1234 for information and schedules for local buses and Manhattan/Staten Island express buses.

By automobile from the Staten Island Expressway (Interstate 278)
Traveling westbound on the Staten Island Expressway from the Verrazano-Narrows Bridge, take the Victory Boulevard Exit (#10). At Victory Boulevard, turn left and continue under the Expressway and turn left into the campus at the first traffic light. Eastbound on the SI Expressway, take the Victory Boulevard Exit (#8) and turn left onto Victory Boulevard, and turn right at the traffic light to enter the campus.

Parking
On-campus parking is available to registered students and employees who purchase a decal and agree to observe all parking regulations. Decals are available from the Office of Parking & DolphinCard Services located in Building 3A, Room 106, telephone 718.982.2294. Students are sold permits for on-campus parking at the time of registration on a first-come, first-served basis. A detailed parking information booklet is available upon request. Speed limit: 25 mph.
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