I am pleased to welcome you to the College of Staten Island, a senior college of The City University of New York, offering courses of study that lead to associate’s, bachelor’s, and master’s degrees and, in collaboration with the Graduate School and University Center/CUNY, doctoral degrees. Our campus is alive with exciting new programs and initiatives to enable you to fulfill your dreams. David Cooperfield said, “I learned that there were two ways I could live my life: following my dreams or doing something else. Dreams aren’t a matter of chance, but a matter of choice. When I dream, I believe I am rehearsing my future.” In selecting the College of Staten Island, you’ve made the right choice.

The College of Staten Island is committed to academic excellence and the opportunity to prepare students to build their futures on a solid foundation of knowledge, and confident inner strength. The administration, the faculty, the staff, and I are all keenly aware of the role we play in our students’ lives and how your college experience shapes how you think and who you become. In today’s mutually dependent world, the challenge for educators is to stimulate students to do their best possible work, to use their minds to bridge cultural, economic, and intellectual differences in order to create a safer, a more educated, and a more tolerant society. As globalization shrinks our world and expands our institutions, it is imperative that we provide the best possible opportunity for our students to grow in both mind and spirit, thus ensuring our collective vitality.

A vibrant scholarly community thrives on our nurturing 204-acre campus. Hopes become reality at CSI. Students succeed at every level, from those in the CUNY Honors College to those who need extra support through peer counseling. Our futuristic technology and scientific equipment in our outstanding programs in the sciences, health sciences, liberal arts, social sciences and technology offer students the tools to prepare them for successful careers. Our faculty comes from the country’s most prestigious schools. We also have an international study abroad program to offer you an array of perspectives on education and life outside the United States. From Staten Island’s only observatory you cannot only dream of the heavens, but also explore the worlds beyond and imagine what lies ahead. The College of Staten Island wants to make your present and your future exciting, and aspires to develop in you a curious spirit that will last a lifetime. I know that whatever your dreams are, the path to fulfilling them can begin here at CSI. I hope your own “rehearsals for your futures” will be enlightening, and enjoyable. Welcome to our community.

Marlene Springer
President
Students entering in fall 2006 or later must consult the *Catalog* supplement for changes in degree requirements and College policies.

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## Fall 2005

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<th>Day</th>
<th>Event</th>
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<tbody>
<tr>
<td>Aug 26</td>
<td>Friday</td>
<td>Last day of registration. Last day to withdraw from course(s) with a 100% tuition refund.</td>
</tr>
<tr>
<td>Aug 29</td>
<td>Monday</td>
<td>First day of classes. Only classes scheduled to end after 4:00pm. Late Registration. Registration for senior citizens seeking a tuition waiver.</td>
</tr>
<tr>
<td>Aug 30-31</td>
<td>Tues.-Wed.</td>
<td>Late Registration. Registration for senior citizens seeking a tuition waiver.</td>
</tr>
<tr>
<td>Sept 5</td>
<td>Monday</td>
<td>College Closed. Last day to add a course.</td>
</tr>
<tr>
<td>Sept 6</td>
<td>Tuesday</td>
<td>Last day to withdraw from course(s) with a 75% tuition refund.</td>
</tr>
<tr>
<td>Sept 13</td>
<td>Tuesday</td>
<td>Last day to withdraw from a course(s) with a 50% tuition refund.</td>
</tr>
<tr>
<td>Sept 19</td>
<td>Monday</td>
<td>Last day to withdraw from a course(s) with a 25% tuition refund. Last day to withdraw from a course without a grade of W.</td>
</tr>
<tr>
<td>Sept 30</td>
<td>Friday</td>
<td>Last day to file for January 2006 graduation. Last day to file for readmission for spring 2006 semester.</td>
</tr>
<tr>
<td>Oct 3</td>
<td>Monday</td>
<td>Only classes scheduled to end before 4:00pm – no evening classes.  <strong>No Classes.</strong>  <strong>College Closed.</strong></td>
</tr>
<tr>
<td>Oct 4-5</td>
<td>Tues.-Wed.</td>
<td></td>
</tr>
<tr>
<td>Oct 10</td>
<td>Monday</td>
<td>Classes follow Monday schedule. No Classes.  <strong>College Closed.</strong></td>
</tr>
<tr>
<td>Oct 11</td>
<td>Tuesday</td>
<td></td>
</tr>
<tr>
<td>Oct 19</td>
<td>Wednesday</td>
<td>Last day to withdraw from first 7 1/2-week NRS, BIO, or CSC courses with permission of an advisor.</td>
</tr>
<tr>
<td>Oct 26</td>
<td>Wednesday</td>
<td>Midterm grades due.</td>
</tr>
<tr>
<td>Nov 3</td>
<td>Thursday</td>
<td>Last day to appeal grades other than WU or FIN from spring 2005 semester. Please refer to Undergraduate Catalog for details and procedures.</td>
</tr>
<tr>
<td>Nov 4</td>
<td>Friday</td>
<td>Last day to withdraw without permission of an instructor or chairperson. Financial aid recipients who totally withdraw before this date may incur repayment liability.</td>
</tr>
<tr>
<td>Nov 24-27</td>
<td>Thurs.-Sun.</td>
<td></td>
</tr>
<tr>
<td>Dec 8</td>
<td>Thursday</td>
<td>Last day to withdraw from second 7 1/2-week NRS, BIO, or CSC courses with permission of an advisor.</td>
</tr>
<tr>
<td>Dec 15</td>
<td>Thursday</td>
<td>Last day of classes. Last day to remove incomplete grades from the spring and summer 2005 semesters. Final Examinations Day/Evening. Final Examination Weekends.  <strong>College Closed.</strong>  <strong>College Closed.</strong></td>
</tr>
<tr>
<td>Dec 16-23</td>
<td>Fri.-Fri.</td>
<td></td>
</tr>
<tr>
<td>Dec 17-18</td>
<td>Sat.-Sun.</td>
<td></td>
</tr>
<tr>
<td>Dec 24-26</td>
<td>Sat.-Mon.</td>
<td></td>
</tr>
<tr>
<td>Dec 30-31</td>
<td>Fri.-Sat.</td>
<td></td>
</tr>
<tr>
<td>Jan 1</td>
<td>Sunday</td>
<td><strong>College Closed.</strong></td>
</tr>
<tr>
<td>Jan 16</td>
<td>Monday</td>
<td><strong>College Closed.</strong></td>
</tr>
</tbody>
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## Spring 2006

<table>
<thead>
<tr>
<th>Date</th>
<th>Day</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>Jan 16</td>
<td>Monday</td>
<td><strong>College Closed.</strong></td>
</tr>
<tr>
<td>Jan 25</td>
<td>Wednesday</td>
<td>Last day to withdraw with a 100% tuition refund.</td>
</tr>
<tr>
<td>Jan 26</td>
<td>Thursday</td>
<td>First day of classes.</td>
</tr>
<tr>
<td>Jan 26-27</td>
<td>Thurs.-Fri.</td>
<td>Late Registration. Registration for senior citizens seeking a tuition waiver.</td>
</tr>
<tr>
<td>Jan 30</td>
<td>Monday</td>
<td>Late Registration. Registration for senior citizens seeking a tuition waiver.</td>
</tr>
<tr>
<td>Feb 1</td>
<td>Wednesday</td>
<td>Last day to withdraw with a 75% tuition refund.</td>
</tr>
<tr>
<td>Feb 8</td>
<td>Wednesday</td>
<td>Last day to withdraw with a 50% tuition refund.</td>
</tr>
<tr>
<td>Feb 13</td>
<td>Monday</td>
<td><strong>College Closed.</strong></td>
</tr>
<tr>
<td>Feb 16</td>
<td>Thursday</td>
<td>Last day to withdraw with a 25% tuition refund.</td>
</tr>
<tr>
<td>Feb 20</td>
<td>Monday</td>
<td><strong>College Closed.</strong></td>
</tr>
<tr>
<td>Feb 21</td>
<td>Tuesday</td>
<td>Classes follow a Monday schedule.</td>
</tr>
<tr>
<td>Mar 1</td>
<td>Wednesday</td>
<td>Last day to file for June/August 2006 graduation.</td>
</tr>
<tr>
<td>Mar 14</td>
<td>Tuesday</td>
<td>Last day to file for readmission for summer/fall 2006 semester.</td>
</tr>
<tr>
<td>Mar 20</td>
<td>Monday</td>
<td>Last day to withdraw from first 7 1/2-week BIO, CSC, NRS courses with permission of an advisor.</td>
</tr>
<tr>
<td>Mar 28</td>
<td>Tuesday</td>
<td>Midterm grades due.</td>
</tr>
<tr>
<td>Mar 14</td>
<td>Tuesday</td>
<td>Last day to withdraw from BIO, CSC, NRS courses with permission of an advisor.</td>
</tr>
<tr>
<td>Mar 20</td>
<td>Monday</td>
<td>Last day to withdraw from BIO, CSC, NRS courses with permission of an advisor.</td>
</tr>
<tr>
<td>Mar 28</td>
<td>Tuesday</td>
<td>Last day to appeal grades other than WU or FIN from the fall 2005 semester.</td>
</tr>
<tr>
<td>Apr 3</td>
<td>Monday</td>
<td>Last day to withdraw without permission of an instructor and chairperson. Financial aid recipients who totally withdraw before this date may incur repayment liability.</td>
</tr>
<tr>
<td>May 9</td>
<td>Tuesday</td>
<td>Last day to withdraw from second 7 1/2-week BIO, CSC, NRS courses with permission of an advisor.</td>
</tr>
<tr>
<td>May 17</td>
<td>Wednesday</td>
<td>Last day of classes, day and evening sessions.</td>
</tr>
<tr>
<td>May 18-26</td>
<td>Thurs.-Fri.</td>
<td>Last day to remove incomplete grades from the fall 2005 semester.</td>
</tr>
<tr>
<td>May 20-21</td>
<td>Sat.-Sun.</td>
<td>Final Examinations, weekend session.</td>
</tr>
<tr>
<td>May 29</td>
<td>Monday</td>
<td><strong>College Closed.</strong></td>
</tr>
<tr>
<td>June 1</td>
<td>Thursday</td>
<td><strong>Commencement.</strong></td>
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*College calendars for fall 2006 and spring 2007 will appear in a supplement to this Catalog.*
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 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 13 professional and liberal arts and sciences fields of study. The College participates in doctoral programs of The City University Graduate School and University Center in Biology, Chemistry, Computer Science, Physics, and Psychology.

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 freshmen 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 Honors College offers a challenging curriculum and an enriched extracurricular environment. It 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 are eligible to apply for admission to the Honors College.

The College participates in the CUNY Honors College: University Scholars Program. Students who have been accepted into the CUNY Honors Program will participate simultaneously in the Honors Colleges of CSI and the University.

The academic year follows a two-semester pattern, with a separate summer 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 1955. 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 1965. The merger of these two colleges resulted in the only public four-year institution of higher learning on Staten Island.

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 comprises 11 senior colleges, six community colleges, a graduate school, a law school, and a medical school. 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.

Sponsorship and Accreditation

CSI is accredited by the Commission on Higher Education of the Middle States Association of Colleges and Schools, 3624 Market Street, Philadelphia, PA 19104; 1.215.662.5606. 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 Computer Science program is accredited by the Computing Accreditation Commission (CAC) of the Accreditation Board for Engineering and Technology (ABET). The Engineering Science program is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (EAC/ABET), and the Electrical Engineering Technology program is accredited by the Technology Accreditation Commission of ABET. The Medical Technology program utilizes hospital affiliations accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS). The baccalaureate and associate degree programs in Nursing are accredited by the National League for Nursing Accrediting Commission, 61 Broadway, New York, NY 10006; 1.212.363.5555. The Physician Assistant program, offered by the College is accredited by the Commission on Accreditation of Allied Health Education. The Physical Therapy program is accredited by the Commission on Accreditation in Physical Therapy Education of the American Physical Therapy Association. The programs in Education have been accepted into candidacy by the National Council for Accreditation of Teacher Education.

Copies of these accreditation documents, as well as the respective accreditation documents for the various academic disciplines, are available for review in the College Library.
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, Shoohoo; 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 and its 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.

Mission of the College of Staten Island

The College of Staten Island, one of the 11 senior colleges of The City University of New York, is, like the University, committed to both access and excellence. This double commitment is especially critical given CSI’s status as the only public college on Staten Island and the one instance in which CUNY is represented in a borough by one unit alone. The College offers the associate degree in selected areas, a comprehensive range of baccalaureate programs, selected master’s programs, and, in cooperation with the CUNY Graduate Center, doctoral programs.

The College of Staten Island’s remarkable campus, with its superb laboratories, studios, and classrooms, serves the pivotal endeavors of teaching and research that promote discovery and dissemination of knowledge while developing human minds and spirits.

The College’s faculty, administration, and staff 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.

Goals
1. To view the quality and success of the College’s educational mission not by the qualifications of entering students alone but by the qualifications of those we educate and those who receive degrees.
2. To foster and enhance faculty commitment to effective teaching and learning.
3. To encourage and support faculty scholarship, research, publication, creative work, and the involvement of students as partners in research and creative activities.
4. To extend the benefits of the College to the larger community by making educational, intellectual, and cultural activities available to all, and by supporting research programs that serve the people of Staten Island, its agencies, and institutions.
5. To offer rigorous general education and degree programs in the liberal arts and sciences and in a range of professional disciplines.
6. To advance the effective use of technology in all aspects of the College’s operations, so as to strengthen support services, teaching, and research.
7. To provide, with efficiency and sensitivity, the broad range of academic and administrative services required by a commuting student population.

8. To further, in all aspects of the College's activities, an appreciation of the pluralism of American society and an awareness of the importance of global education and international understanding.

9. To cultivate civility and dialogue between and among all members of the College's communities.

10. To build academic and research programs through collaborative initiatives with the community colleges, senior colleges, and the Graduate Center of The City University of New York, and with national and international counterparts.

11. To forge professional relationships with educators at all levels, and to work collectively to seek new and effective approaches to K-12 education.

12. To strengthen student interest in life-long learning, their purposeful participation in the issues that face our society, and their lively commitment to their own physical and spiritual well-being.
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.

Admissions

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)

Freshmen

1. An applicant for admission to a bachelor's degree program must pass the three CUNY Basic Skills 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 admission of applicants whose scores approach the College's minimum index number.

Students admitted directly into four-year bachelor's degree programs are eligible for the Baccalaureate Program and may enroll in designated sections of general education courses. Applicants who are not admitted to a bachelor's degree program may enter an associate's degree program at the College.

Transfer Students

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 Basic Skills 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 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.

Work completed at other colleges may be used to fulfill general education and other requirements. The Office of the Registrar will evaluate each student's transcript. Every effort will be made to apply the coursework 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 CUNY Honors College**

First-time students may apply for admission to the CUNY Honors College at CSI. Applicants are expected to have an academic diploma with an average of at least 90. The admissions committee for the 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.

For information or an application, please visit [www.cuny.edu/honorscollege](http://www.cuny.edu/honorscollege), call 1.718.982.2222, or write the Honors College, CSI/CUNY, South Administration Building (1A), Room 206, 2800 Victory Blvd., Staten Island, NY 10314.

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

**Freshmen**

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.

**Transfer Students**

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 the credits required for the core, in order to earn an associate’s degree.

**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**

**Freshman Applications**

Students may obtain a freshman application form from CSI, their high school guidance office, or the CUNY Office of Admissions Services (OAS). The application, a school transcript, and a non-refundable application fee of $65 must be mailed to the UAPC at the following address.

University Application Processing Center (UAPC)
Box 350136
Brooklyn, New York 11235-0001

Applicants may apply online at [www.applyto.uapc.cuny.edu](http://www.applyto.uapc.cuny.edu). CSI has continuous admissions; however, applications should be filed early.

**Transfer Applications**

The College of Staten Island accepts transfer applications from students who have attended an accredited postsecondary institution. Students who are currently attending or who have previously attended a college of The City University of New York should apply through the registrar’s office of the college attended, using the standard transfer application form of the CUNY Office of Admission Services.
Students must meet the standards of proficiency in the basic skills areas of reading, writing, and mathematics established by the University and pass the CUNY Proficiency Examination to transfer to a bachelor’s degree program.

Transfer students from colleges outside CUNY can obtain an application from the CSI Office of Recruitment and Admissions. This form and official transcripts of all previous college work should be sent to the UAPC (address above). The fee for transfer applications is $70. Please see also the statement on the CUNY Proficiency Examination in the section Academic Policies and Procedures.

Non-Degree (Non-Matriculated) Applications

Non-matriculated (non-degree) students may obtain an Undergraduate Non-Degree application from the HUB in the North Administration Building 2A Room 106, online at www.csi.cuny.edu/registrar/importantforms.htm 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 placement and credits, to a maximum of 30 credits, 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 Recruitment and Admissions.

International Students

The Center for International Service at CSI facilitates admission and registration for international students. The Center is located in the North Administration Building (2A), Room 206; telephone 1.718.982.2100.

Veterans

The veterans advisement service is supervised by the Registrar. Assistance is available in interpreting regulations and policies of the Department of Veterans Affairs, and educational and financial counseling is offered. The office of the veterans adviser is in the North Administration Building (2A), Room 110.

SEEK Program

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 procedures may be obtained from the SEEK Office, South Administration Building (1A), Room 112; telephone 1.718.982.2413.

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. To qualify for priority registration, applications for readmission must be filed by the deadline specified in the calendar in the Schedule of Classes.

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 at www.csi.cuny.edu/registrar/importantforms.htm 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).

After Acceptance to the College of Staten Island

Orientation

An orientation program for all new students provides an introduction to the College, its programs, and student life. Orientation sessions are scheduled at the beginning of each semester, before or during the time periods devoted to testing, advisement, and registration.

Testing

CUNY Basic Skills Tests:

All new students are required to take the CUNY Basic Skills Tests in order to become degree (matriculated) students. The scores are used for advisement and placement into college courses. Entering students are scheduled for the Skills Tests. The tests are administered several times during the year by the Testing Office, South Administration Building (1A), Room 104. For information see the section on CUNY Basic Skills Tests in the chapter Academic Policies and Procedures.

Placement Examinations

Special examinations are given to determine placement at the appropriate course level in several departments, such as Biology and Modern Languages. See the department chairperson or the Testing Office for further information.

Advisement

Upon acceptance into the College of Staten Island, each student is assigned an academic adviser. During the first semester and prior to registration for the second semester it is expected that students will meet with their assigned advisers to discuss educational and career goals and to develop long-range academic plans. Thereafter, students meet with their advisers at least once each semester to discuss the following semester’s academic program and to have their advisement registration approved, and to discuss progress toward graduation. Once each semester, students are sent an updated Academic Advisement Plan that details progress toward the degree. Students should review their plan and report any problem immediately to the Academic Advisement Office, South Administration Building (1A), Room 101.

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 the College’s Web (eSIMS) process may register and perform program changes following the procedures accompanying the registration appointment letter. Instructions for using the Web eSIMS system are also published in the Schedule of Classes.

A detailed registration schedule and class listings are published each semester in the Schedule of Classes. Registration is not complete until all financial obligations have been satisfied. The Registrar’s Office is in the North Administration Building (2A), Room 110.

Immunization Requirement

New York State Public Health Law requires immunization against measles, mumps, and rubella for some students. All students born on or after January 1, 1957, who are enrolling for six or more equated credits must have proof of immunization on file at the College Health Center, Campus Center, (1C) Room 112, one week prior to registration. Transfer students must request that their health records be transferred to CSI. Information and the immunization forms are available at the Health Center and the Registrar’s Office, and in the Schedule of Classes.

New York State Public Health Law 2167 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/travel_clinics. The meningitis vaccine may or may not be covered by insurance. The vaccine cost is approximately $75.00. The Ryan Chelsea Clinton Community Center, 645 Tenth Avenue (between 45th and 46th) New York, NY 10036, 1.212.265.4500, 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/healthcenter
New York State Department of Health Website: www.health.state.ny.us/nysdoh/immun/immunization.htm
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

1.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 $5.00.

Student Enrollment, Retention, and Graduation

The College has an enrollment of over 11,100 undergraduate students, full-time and part-time. Over 2,900 new undergraduates entered in fall 2004 as first-time freshmen or as transfer students. For the College’s heterogeneous student population, progress toward a degree depends upon a number of factors: preparation for college, goals, and other commitments. These and other factors affect such student outcomes as retention, graduation, and post-collegiate success.

Approximately 64% of all first-time freshmen who entered associate and baccalaureate degree programs in fall 2003 re-enrolled in fall 2004. Members of this cohort who entered as full-time students were retained at a rate of 66%, while members of this cohort who entered as part-time students were retained at a rate of 45%. For full-time transfer students who entered in fall 2003, the retention rate was 68%.

The College awarded 1,386 undergraduate degrees in the 2003-2004 academic year. More than 61% of these were bachelor’s degrees, while 39% were associate’s degrees.
Bursar: Mr. Michael D. Baybusky
North Administration Building (2A), Room 105

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

Payment

A student is not registered until all financial obligations to the College have been satisfied. Before registration can be completed, students must have paid in full unless the student: (a) has been awarded financial aid sufficient to cover tuition and fees, (b) is enrolled in the University Payment Plan, (c) is eligible for a tuition waiver, (d) is in a special registration status (e.g., veteran). The registration dates are printed in the Schedule of Classes for each semester. During the registration process, a student’s bill is prepared with a payment/validation due date indicated. Students registering late will be given a bill at the time of registration and are expected to pay their bill within three or fewer days. If a student’s bill is not paid and a student is not covered by one of the above categories, the registration will be canceled. A student who has not fulfilled all financial obligations to the College will be barred from obtaining any transcripts or from registering for the next semester.

Residency for Tuition Billing Purposes

A student may qualify for the resident tuition rate if he/she continuously maintained his/her principal place of abode in the State of New York for a period of at least 12 consecutive months immediately preceding the first day of classes. If a student has attended a high school in New York City or State for the two semesters immediately prior to the first day of classes, the student qualifies for the resident rate.

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 in the section on Financial Aid and in the Schedule of Classes.

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

<table>
<thead>
<tr>
<th>UNDERGRADUATE*</th>
<th>Resident</th>
<th>Non-Resident</th>
</tr>
</thead>
<tbody>
<tr>
<td>full-time matriculated</td>
<td>$2,000/semester</td>
<td>$360/equated credit</td>
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<tr>
<td>part-time matriculated</td>
<td>$170/equated credit</td>
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<tr>
<td>non-degree</td>
<td>$250/equated credit</td>
<td>$530/equated credit</td>
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*Tuition is subject to change without prior notice by the CUNY Board of Trustees.

Tuition bills may be paid with a credit card: MasterCard or Visa.
The last date for submitting documentation for a residency status change for tuition billing purposes is the last day of final examinations (see the academic calendar in the Schedule of Classes).

**Matriculated Status**

If a student’s matriculation status changes on or after the first day of classes, the lower matriculation tuition charge will not be effective until the next semester’s registration. No refunds will be issued for the semester in which the reclassification occurs. Students who have satisfied their baccalaureate degree requirements (graduated) and wish to take additional credits beyond the degree, will automatically be coded non-degree and charged the higher non-degree rate per credit, unless they have filed for a second undergraduate degree in the Registrar’s Office by the last business day before the first day of classes.

**Non-Instructional Fees**

**Student Activity Fee**
The Student Activity Fee is billed to all students at the following rate:
- full-time students: $74.00
- part-time students: $48.00
Fees include a $4.00 contribution to the New York Public Interest Research Group (refundable through NYPIRG office) and an 85-cent University Student Government fee. Non-instructional fees are non-refundable.

**Miscellaneous Fees and Charges**

<table>
<thead>
<tr>
<th>Fee Description</th>
<th>Amount</th>
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<tr>
<td>Consolidated Service Fee</td>
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<td>Technology Fee</td>
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<td>Readmission</td>
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<td>Program Change</td>
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<td>Cooperating Teacher Waiver</td>
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<td>CUNY Accelerated Study Fee</td>
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<td>Late Payment</td>
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<td>Transcript</td>
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<td>Duplicate Diploma</td>
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<td>Duplicate I.D. Card</td>
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</tr>
<tr>
<td>Special Examination</td>
<td>$25</td>
</tr>
</tbody>
</table>

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

**Materials Charges**

Special materials charges of $10 or more are required in some courses. Details may be found in each semester's Schedule of Classes. 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 printed in the Schedule of Classes each semester. 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.

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. See the Schedule of Classes for more details.
Application Procedures and Deadlines

**Obtain/Use a Federal PIN Number @ www.pin.ed.gov**

Students/spouses and parents should use a federal PIN number to sign the FAFSA (Free Application for Federal Student Aid) and TAP (Tuition Assistance Program) applications. To obtain a PIN number or find out what a previously issued PIN number is, sign onto www.pin.ed.gov. Applicants will receive a PIN number by email in five to seven days or a PIN number will be mailed in nine to 12 days.

**College Codes**

CSI’s FAFSA college code is 002698 and the TAP college code is 1417.

**Apply on the Web @ www.fafsa.ed.gov**

Complete the FAFSA and TAP applications online at www.fafsa.ed.gov. When you receive your confirmation after submitting your FAFSA, you will see a paragraph directly below with the heading NY STATE RESIDENTS. Use the hyperlink immediately to get to the Web TAP application. Most of the answers will be filled in with your federal data. Review, revise, and answer any unanswered questions. Submit your form electronically when you are satisfied that the application is complete. You have now applied for federal and state aid.

**CSI Invites You to Use Our Application Lab**

CSI has created a Student Service Center where prospective and current students may make appointments to file for federal and state financial aid on the Web by calling 1.718.982.2601. Remember to bring financial documents, such as federal and state tax returns and information about any income not listed on tax returns. These documents will make it easier to file. The Student Service Center is located in the North Administration Building (2A), Room 407.

**Transfer Students**

Follow the application steps listed above to apply for federal and state financial aid. If you are currently receiving financial aid at another college or university, call the Federal Student Aid Information Center at 1.800.433.3243 and request a duplicate SAR (Student Aid Report). Submit this SAR to the Student Financial Aid Office and request that a TAP change form be sent to you.

**Priority Deadlines**

The priority deadline is March 30 for students applying for federal and state financial aid for the summer/fall and spring semesters and November 30 for students applying for federal and state financial aid for the spring semester.

**Withdrawing from Courses May Affect Your Financial Aid**

There are immediate and long-term financial aid consequences when you begin a semester and later withdraw from some or all courses. Review the Federal Satisfactory Academic Progress Guidelines and the TAP/APTS Progress-Pursuit Chart, both of which follow this section, to learn more about the academic side of financial aid.

**Special Information for Recipients of Federal Student Financial Assistance**

Students who withdraw from all classes, either officially or unofficially, will have their records reviewed to determine if the federal aid disbursed to them exceeds the amount they were entitled to receive. Overpayments will be billed to the student. Failure to repay these overpayments within 30 days will result in the College withholding all academic privileges, and the overpayment will be reported to the National Student Loan Data System (NSLDS). This system will withhold all future federal aid until the overpayment is resolved.

**Some Financial Aid Is Taxable**

Federal tax regulations now require that students report some grants, scholarships, and fellowships to the Internal Revenue Service as taxable income. In addition, Federal Work Study wages are taxable. Recipients of funds from these sources are strongly urged to consult their tax advisor or the Internal Revenue Service to determine the impact of such grants on their personal tax circumstances. All students are urged to maintain accurate records of financial aid received and receipts for expenses related to attendance at college, such as books, supplies, tuition, and fees.

**Federal Satisfactory Academic Progress**

In order to make satisfactory academic progress toward a degree, for purposes of receipt of Title IV Federal Student Assistance, an undergraduate student must achieve at least the GPA required for probationary status at the institution: after two years of enrollment at the college, have at least a C average, or its equivalent, or academic standing consistent with the requirements for graduation; and have accumulated credits toward the degree according to the following standards:
Federal Financial Aid

Eligibility: To be eligible for any of the federal financial aid programs, a student must:
1. be a U.S. citizen, or
2. be an eligible non-citizen, and
3. be matriculated, and
4. take at least six equated credits a semester, unless otherwise noted below, and
5. not be in default of a Federal Loan (Perkins, Stafford or Direct Loan) or have completed the required process to obtain “Renewed Eligibility” and
6. not owe a refund on any Title IV Grant, and
7. be making satisfactory progress toward a degree, and
8. provide proof of high school graduation or its equivalent.

Federal Programs

Federal PELL Grant Program: For eligible students, the grant will vary depending on whether the student is less than half-time, half-time, three-quarter-time, or full-time. A student must be an undergraduate who has not already earned a bachelor's degree. A student receives half of the Federal Pell Grant in the fall semester and half in the spring semester. College seniors who will graduate at the end of the fall semester are eligible to have their first disbursement of a Federal Pell Grant in the summer and the last disbursement in the fall, provided the student notifies the Financial Aid Office in writing so the proper arrangements can be made. Students who received only one semester of Federal Pell Grant for a particular academic year (fall-spring period) may have the last disbursement made to them for the summer term.

Federal Direct Loan: The elements listed below are common to all the Federal Direct Loan programs unless otherwise noted:

1. Cumulative credits are equal to or greater than two-thirds of the attempted credits at the institution;
2. Attempted credits are not more than 150% of the credits normally required for completion of the degree. If the standards in 1. and 2. are not met, eligibility may be retained by meeting conditional standards;
3. For baccalaureate programs, accumulated credits are equal to or greater than \((0.75 \times \text{cumulative credits attempted}) - 18\) or for associate degree programs, accumulated credits equal to or greater than \((0.875 \times \text{credits attempted}) - 21\). Students will be measured against the satisfactory progress standard at the end of the spring term to determine eligibility for receipt of Title IV student financial assistance for the upcoming year.

Appeals/Probation: Undergraduate students who fall below the conditional standard may appeal through the Registrar’s Office to retain eligibility for receipt of Title IV federal student assistance. There is no limit to the number of times a student may appeal.

Transfer Students: Transfer students shall have their status initialized for purposes of satisfactory academic progress measurement by using the number of credits determined to be acceptable toward the degree as both the cumulative attempted credits and cumulative earned credits.

Readmitted Students: Upon readmission after at least a one-year period of non-enrollment, the student will receive assistance for the terms in the academic year of readmission and will be evaluated for future eligibility at the end of the spring term against the appropriate standard for the degree program in which the student is enrolled. If a student is readmitted after less than one year of non-enrollment, the academic record will be evaluated for satisfactory academic progress under these standards as the record stood at the end of the last term of attendance.

Federal Financial Aid

Eligibility: To be eligible for any of the federal financial aid programs, a student must:
1. be a U.S. citizen, or
2. be an eligible non-citizen, and
3. be matriculated, and
4. take at least six equated credits a semester, unless otherwise noted below, and
5. not be in default of a Federal Loan (Perkins, Stafford or Direct Loan) or have completed the required process to obtain “Renewed Eligibility” and
6. not owe a refund on any Title IV Grant, and
7. be making satisfactory progress toward a degree, and
8. provide proof of high school graduation or its equivalent.

Federal Programs

Federal PELL Grant Program: For eligible students, the grant will vary depending on whether the student is less than half-time, half-time, three-quarter-time, or full-time. A student must be an undergraduate who has not already earned a bachelor's degree. A student receives half of the Federal Pell Grant in the fall semester and half in the spring semester. College seniors who will graduate at the end of the fall semester are eligible to have their first disbursement of a Federal Pell Grant in the summer and the last disbursement in the fall, provided the student notifies the Financial Aid Office in writing so the proper arrangements can be made. Students who received only one semester of Federal Pell Grant for a particular academic year (fall-spring period) may have the last disbursement made to them for the summer term following the academic period defined above. The request must be made in writing by the last working day in May.

Federal Supplemental Educational Opportunity Grant Program: Grants are targeted to Federal Pell Grant recipients. Students who already have a bachelor's degree are ineligible.

Federal Work-Study Program: This program provides on- and off-campus employment opportunities for needy students. At the time this Catalog was written, on-campus wage rates were $7.00 per hour for undergraduate and $9.00 per hour for graduate students. Work schedules are developed around a student’s class schedule and the average work schedule consists of ten hours per week. A student pursuing a second undergraduate degree is not precluded from the Federal Work-Study Program.

Federal Perkins Loan Program: This is a loan program and funds received under this program MUST be repaid. All students receiving a Federal Perkins Loan must attend a Federal Perkins Pre-loan conference and take and pass the CUNY Default Reduction Test before the first disbursement of the loan proceeds each year. No Federal Perkins Loans will be disbursed to students who do not comply. Students are required to disclose their driver’s license number when applying for a Federal Perkins Loan and must provide, in writing, changes of address to the Office of Student Financial Aid within ten days of the change. Federal Perkins Loan borrowers must report to the Office of Student Financial Aid and request an Exit Interview eight weeks prior to graduation, if they plan to transfer to another institution, leave the College for any reason, or continue their education as a less than half-time student (less than six equated credits). Students should be aware that federal regulations require the University to report the disbursement/default of a Federal Perkins Loan to credit bureaus. Deferments and cancellations are available on these loans in certain circumstances and are discussed in detail at the Exit Interview. Federal Perkins Loans are awarded to students by the University. If a student defaults on a loan, all future College services will be withheld.

Federal Direct Loan: The elements listed below are common to all the Federal Direct Loan programs unless otherwise noted:
The applications may be obtained from the Financial Aid Office or at a Federal Direct Pre-loan session, for first-time borrowers.

Promissory notes must be completed, signed, and returned to the processor before any loan funds are credited to the tuition bill or disbursed to the student.

These are loans and must be repaid.

For the first loan, a pre-loan interview is required. This can be done on the Web, at www.ed.gov/offices/OPE/DirectLoan/. Students may also attend one of our workshops.

Prior to graduation, transferring to another college, leaving this College for any reason, or taking fewer than six equated credits per term, students must request an Exit Interview.

If the College is notified that a student has defaulted on a loan, all College services will be withheld.

Federal Direct Subsidized Loans: FAFSA data must be received before a Federal Direct Loan can be processed. Undergraduate students who:

1. have not completed the freshman year may borrow $2,625 annually, not to exceed need (independent students may borrow up to an additional $4,000 in unsubsidized funds);
2. are in their sophomore year may borrow $3,500 annually, not to exceed need (independent students may borrow up to an additional $4,000 in unsubsidized funds);
3. are in their junior or senior year may borrow $5,500 annually, not to exceed need (independent students may borrow up to an additional $5,000 in unsubsidized funds);
4. the aggregate undergraduate loan limit is $23,000.

Federal Direct Unsubsidized Loans: A student applicant must establish his/her eligibility or ineligibility for the Federal Direct Subsidized Loan before applying for the Federal Direct Unsubsidized Loan. A student may borrow an Unsubsidized Loan, using the same schedule listed under Federal Direct Subsidized Loans, in the amount he/she was ineligible to receive as a Federal Direct Subsidized Loan. For example, a student borrower who has not completed his/her first year and has been determined to be eligible for $1,500 under the Federal Direct Subsidized Loan may borrow the remaining $1,125 from the Federal Direct Unsubsidized Loan if the College budget permits. The difference between these programs is that no interest is due on the Federal Direct Subsidized Loan while the student remains in college in an eligible status. The student pays the interest on the Federal Direct Unsubsidized Loan from the day the loan is disbursed. The student may either pay the interest while in school or capitalize the interest, adding it to the principal each month.

The maximum yearly amount a student can borrow for Federal Direct Subsidized and Direct Unsubsidized Stafford Loans is:

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<thead>
<tr>
<th></th>
<th>Dependent Student</th>
<th>Independent Student</th>
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<tbody>
<tr>
<td>1st-year undergraduate</td>
<td>$2,625</td>
<td>$6,625</td>
</tr>
<tr>
<td>2nd-year undergraduate</td>
<td>3,500</td>
<td>7,500</td>
</tr>
<tr>
<td>3rd- &amp; 4th-year undergraduate</td>
<td>5,500</td>
<td>10,500</td>
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</table>

Federal Direct PLUS Loans: Parents of dependent students can borrow Federal Direct PLUS Loans to pay for their children’s education. To apply, the students’ parents must complete a separate application available at the Office of Student Financial Aid. Before receiving any loan funds, parents will receive promissory notes that must be completed, endorsed, and returned to the processor. The College will verify that the student for whom the parent is borrowing the money meets all applicable loan requirements. Parents are not required to attend a Pre-loan or Exit Interview.

Federal Aid to Native Americans: For information regarding this program, interested students should contact the Office of Student Financial Aid.

New York State Programs

The State of New York offers a number of grant programs that provide assistance to eligible students. To apply, the student must complete the Free Application for Federal Student Aid (FAFSA), which is available at the Office of Student Financial Aid. In addition, the student must complete the TAP/APTS Application and CUNY Supplement, which will be mailed to the student once the FAFSA data has been received by the University. The criteria listed below are common to all State Aid programs listed unless otherwise noted.

A student should:

1. be a New York State resident for the year preceding the award, and
2. be a U.S. citizen or permanent resident alien or paroled refugee, and
3. be a matriculated student, and
4. meet the TAP Progress and Pursuit guidelines, and
5. not be in default on a Federal Loan or if in default, have completed the required process to obtain “Renewed Eligibility,” and
be economically eligible based on current New York State criteria.

**Tuition Assistance Program (TAP):** This program is designed to provide tuition grants for full-time students. These grants are awarded by the New York State Higher Education Services Corporation. Students must meet the TAP Progress and Pursuit guidelines prior to the start of each term. These guidelines are also published in the *Schedule of Classes* each semester.

If a student does not meet either the Progress or Pursuit standard(s), he/she loses his/her TAP eligibility. The Registrar will notify a student if he/she fails to meet these standards and outline how he/she may apply for a waiver. The Committee on Course and Standing reviews all appeals. Only one waiver may be issued during a student’s undergraduate years.

Conditions/Restrictions for the waiver are:
1. Student must have a good overall record with academic difficulties concentrated in one term.
2. The appeal must be based on circumstances outside the College, such as a car accident or an eviction.
3. The reason must be extenuating, extraordinary, or unusual. Normal family responsibilities, work, and fear of failing a class do not meet this standard.
4. The student must provide documentation to support the waiver request.

TAP will not pay for a student to repeat a course to get a better passing grade unless the College requires that the course be repeated. Students who take several remedial courses that carry no credits must make sure that they also take at least three degree credits for their first TAP and six degree credits for all other TAP awards. See the TAP/APTS Progress-Pursuit Chart to determine the number of degree credits that must be accumulated before a TAP/APTS award can be credited to the tuition bill.

**Aid for Part-Time Study (APTS):** Undergraduate students enrolled for at least six but not more than 11 equated credits are considered for this award at CUNY. Notification is first provided on the semester bill as a credit against the tuition charge. The award is determined each semester and may vary from semester to semester, based on usage throughout the entire University. This award uses up a portion of a student's TAP eligibility.

**Part-Time TAP:** At the time this *Catalog* was written, no decision had been made to fund the Part-Time TAP program for CUNY. If funding is approved, for this program a part-time student is defined as one who:
1. is enrolled as a first-time freshman during the 1998-99 academic year or thereafter at CUNY, and
2. has earned at least 24 credits at CUNY by the time of the award, and
3. has a cumulative grade point average of at least 2.00, and
4. is enrolled for at least six but less than 12 credits per semester.

Awards will be calculated as a percentage of the full-time award for which the student would be eligible if enrolled full-time.

**Vietnam Veteran Tuition Awards:** Vietnam Veterans Tuition Awards provide up to $500 per semester (full-time attendance) or $250 per semester (part-time attendance) to Vietnam veterans enrolled in an undergraduate program at a degree-granting institution in New York State. Eligibility:
1. residency in New York State on April 20, 1984, or at the time of entry into service and resumption of residency by September 1, 1987;
2. service in the U.S. Armed Forces in Indochina between January 1, 1963 and May 7, 1975;
3. discharge from the U.S. Armed Forces under other than dishonorable conditions;
4. enrolled in an approved undergraduate program in a degree-granting institution in New York State;
5. files an application for TAP and PELL.

If a TAP award is also received, the combined awards can be no greater than tuition. Where the combined awards exceed tuition, the TAP award will be reduced accordingly.

**Search for Education, Elevation, and Knowledge (SEEK):** Students wishing to enter the SEEK program must meet family income and academic guidelines. When filling out the application for admission, the student should indicate a desire to enter the SEEK program. Applicants will be contacted by the College’s SEEK Office and invited to a SEEK financial aid workshop where the SEEK program will be explained in detail. At this workshop, applicants will be guided through the financial aid applications and asked to supply required documentation. Financial aid reserved for students in the SEEK program is in the form of grants for stipends, to purchase books, and to pay the Student Activity Fee. To be eligible for SEEK financial aid, the student must apply for PELL using the Free Application for Federal Student Aid form (FAFSA) and TAP using the TAP/APTS Application and CUNY Supplement.

**Other New York State Programs:** Regents Nursing Scholarship, Regents Award for Children of Deceased or Disabled Veterans, State Aid to Native Americans. Information on these programs is available from the New York State Higher Education Services Corporation, 99 Washington Avenue, Albany, NY 12255.
### TAP/APTS Progress-Pursuit Chart

1. **Before Being Certified for This Payment**

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<tbody>
<tr>
<td>0</td>
<td>50%</td>
<td>50%</td>
<td>75%</td>
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<td>100%</td>
<td>100%</td>
<td>100%</td>
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<td>100%</td>
</tr>
</tbody>
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2. **To Meet Program Pursuit Standards,**
   a student must have completed this percentage of course 12 eq. cr. if full-time, or this percentage of entire course load if part-time

   | 0   | 0   | 6   | 18  | 31    | 45    | 60    | 75    | 90    | 105    |

3. **To Meet Academic Progress Guidelines,**
   a student must have accrued at least this many credits

   | 0   | 0   | 1.00 | 1.20 | 2.0   | 2.0   | 2.0*  | 2.0*  | 2.0*  | 2.0*   |

4. **With at least this Grade Point Average**

   | 0   | 0   | 1.00 | 1.20 | 2.0   | 2.0   | 2.0*  | 2.0*  | 2.0*  | 2.0*   |

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*Students in associate's degree programs must have a 2.0 grade point average at the point of graduation.

**A student who has received two academic years of State-funded financial aid including TAP (four semesters/payments) must have a cumulative C average (GPA=2.00) in order to continue to receive payments.
New York City Program

**Peter F. Vallone Academic Scholarship:** Funding for this scholarship is dependent each year on continued funding in the New York City budget.

To receive a Peter F. Vallone Academic Scholarship students must:

1. have a high school college academic average of B or above, and
2. file the FAFSA each year, and
3. enroll initially in CUNY within 12 months of high school graduation, and
4. once enrolled, maintain continuous full-time (12 credits or more) enrollment in CUNY, excluding summer, and
5. in the first semester, enroll and attend classes for 12 credits of which six credits must meet the requirements of the degree, and
6. in the second and all subsequent semesters, enroll and attend classes for at least 12 credits that count toward the degree, and
7. maintain at least a 3.0 cumulative average.

Appeals process: Students who wish to file an appeal may do so at the Office of the Vice President for Student Affairs in the South Administration Building (1A), Room 301.

Payment process: Peter F. Vallone Academic Scholarships are used as a credit against students’ tuition and fee charges. If any/all of the award remains after these charges are satisfied, the balance will be paid by check to the student through the University Financial Aid Payroll System.

Award Renewal Process: To renew the Peter F. Vallone Academic Scholarship, the student must file a Renewal FAFSA each spring by the priority deadline of March 31. CSI encourages all students to use their Federal PIN number to file on the Web. Students may call 1.718.982.2601 to obtain an appointment in the Financial Aid Student Service Center in the North Administration Building (2A), Room 407, or may access the FAFSA Application Website at [www.fafsa.ed.gov](http://www.fafsa.ed.gov). Students who wish to file a paper FAFSA may do so.
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, 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 3.5 or above).
School and/or community service.
Incoming students: high school average of 90% 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 be in touch with the Office of Student Financial Assistance.

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 from The Career and Scholarship Center and from department and student services offices. In the high schools, application forms are available from the College Adviser. The scholarship application can also be found online by visiting www.csi.cuny.edu/career/ and clicking on the Scholarships and Awards option on the left toolbar.

Notification to Recipients

Applicants are notified by the Scholarship Committee. An awards presentation ceremony 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 intersession) 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 Nursing, 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 Affairs and from department chairpersons.
Divisions 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: Business; Education; English, Speech, and World Literature; History; Media Culture; Modern Languages; Performing and Creative Arts; Political Science, Economics, and Philosophy; Psychology; and Sociology, Anthropology, and Social Work. The Division of Science and Technology includes the following departments: Biology, Chemistry, Computer Science, Engineering Science and Physics, Mathematics, and Nursing.

Offices of the division deans are located in the South Administration Building (1A): Dean Francisco Soto, Division of Humanities and Social Sciences, and Dean Gail Simmons, Division of Science and Technology. Offices of department chairpersons and faculty are located in department buildings.

Department of Biology

Biological Sciences/Chemical Sciences Building (6S) - South Academic Quadrangle
Richard Veit, Chairperson and Professor

The department offers the Bachelor’s degree in Biology, Biology with an option in Bioinformatics, and in Physician Assistant; a combined Bachelor of Science/Master of Science degree in Physical Therapy; a Master of Science degree in Biology; and the Associate’s degree in Medical Laboratory Technology. A Doctoral degree in Physical Therapy has been approved by the CUNY Board of Trustees to begin spring 2006. Please contact the coordinator of Physical Therapy for further information. 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 participates in the University’s Doctoral program in Biology (subprogram in Neuroscience). The Medical Technology program utilizes hospital affiliations accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS); the Physician Assistant program is accredited by the Commission on Accreditation of Allied Health Education; and the Physical Therapy program is accredited by the Commission on Accreditation in Physical Therapy Education of the American Physical Therapy Association.

The BS/MS program in Physical Therapy is coordinated by Professor Jeffrey Rothman. The MS program in Biology is coordinated by Professor Richard Veit. Associate Professor Elena McCoy serves as chair of the advisory committee for pre-medicine students.

Department of Business

Business Building (3N) - North Academic Quadrangle
Laura Nowak, Chairperson and Professor

The department offers the Bachelor of Science degree in Accounting and in Business with concentrations in Finance, International Business, Management, and Marketing; and the Bachelor of Science degree in Information Systems in collaboration with the Department of Computer Science. In cooperation with the Economics faculty, a Business Concentration is offered within the Bachelor’s degree program in Economics. The BS degree program in Accounting prepares students for careers in accounting and advanced study toward the CPA examination. The CPA track is New York State accredited, permitting graduates entry to the examination upon completion of 150 credits. The Associate’s degree is offered with options in Accounting, Finance, Information Systems, International Business, Management, and Marketing. Graduates with an AAS degree may enter the job market directly or continue to study toward the bachelor’s degree, and should consult an adviser and plan their programs accordingly.

Department of Chemistry

Biological Sciences/Chemical Sciences Building (6S) - South Academic Quadrangle
John Olsen, Chairperson and Associate Professor
Distinguished Professor: Fred Naider
Professors: Probal Banerjee, Ruth Stark, Nan-Loh Yang. Associate Professors: Bhunu Chauhan, Qiao-Sheng Hu, Chwen-Yang Shew,
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

Computer Science/Engineering Science and Physics Building (1N) - North Academic Quadrangle
Deborah Sturm, 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 is offered jointly with the Department 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 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 degree program is accredited by the Computer Science Accreditation Commission (CSAC) of the Computing Sciences Accreditation Board, Inc. Associate Professor Miriam Tausner is coordinator of the master's degree program.

Department of Education

Education Building (3S) - South Academic Quadrangle
Susan Sullivan, Chairperson and Associate Professor

The department provides initial preparation and graduate programs for teaching at the preschool level and in elementary and secondary schools, and graduate programs in Childhood Education, Adolescence Education, Special Education, and Education Supervision and Administration.

Graduate program coordinators are Assistant Professor Gregory Seals for the Master's degree program in Childhood Education, Associate Professor Eileen Donoghue for the Master's degree program in Adolescence Education, Assistant Professor Eleni Tournaki for the Master's degree program in Special Education, and Assistant Professor Ruth Silverberg for the Sixth-Year Certificate Program in Education Supervision and Administration.

Department of Engineering Science and Physics

Computer Science/Engineering Science and Physics Building (1N) - North Academic Quadrangle
Syed Rizvi, Chairperson and Professor

The department offers programs leading to the Bachelor's degree in Engineering Science and in Physics and participates in the University Doctoral program in Physics. The Associate's degree is offered in Engineering Science, and faculty in the department participate with the Interdisciplinary Coordinating Committee for the Associate in Applied Science degree program 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 Astrophysical Observatory. The BS in Engineering Science is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET), and the Electrical Engineering Technology program is accredited by the Technology Accrediting Commission of ABET. The interdisciplinary Master's degree program in Environmental Science is coordinated by Professor Alfred Levine.
Department of English, Speech, and World Literature

English, Speech, and World Literature/Modern Languages Building (2S) - South Academic Quadrangle
Janet Dudley, Chairperson and Associate Professor


The department offers the Bachelor's degree in English, with options in Literature, Writing, and Linguistics; and the Master's degree. The department 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, or 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 Dramatic Arts and Dramatic Literature jointly with faculty of the Department of Performing and Creative Arts. The Master's degree program is coordinated by Professor Richard Currie.

Department of History

History/Political Science, Economics, and Philosophy Building (2N) - North Academic Quadrangle
Howard Weiner, 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. Associate Professor Richard Lufrano coordinates the Master's degree program in History and Professor David Traboulay coordinates the interdisciplinary Master's degree program in Liberal Studies.

Department of the Library

Library (1L) - South Academic Quadrangle
Wilma Jones, Chief Librarian and Associate Professor


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.

Department of Mathematics

Mathematics Building (1S) - South Academic Quadrangle
Arundhati Raychaudhuri, Chairperson and Professor


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.
Department of Media Culture

Center for the Arts (1P)
Edward Miller, Chairperson and Associate Professor

The department offers the Bachelor's degrees in Cinema Studies and in Communications and a Master's degree program 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 work 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 coordinated by Assistant Professor David Gerstner.

Department of Modern Languages

English, Speech, World Literature/Modern Languages Building (2S) - South Academic Quadrangle
Kathryn Talarico, Chairperson and Professor

The department offers the Bachelor's degree in Spanish and courses in French and Italian. Minors in these languages are also offered. Courses in American Sign Language are under the aegis of the department. In addition to mastery of the language, through classroom and language laboratory work, the literature, culture, and history of the countries are studied.

Department of Nursing

Marcus Hall (5S) - South Academic Quadrangle
Mary O'Donnell, Chairperson and Associate Professor

The department offers an upper-division program leading to the Bachelor of Science degree in Nursing, a Master of Science degree program in Adult Health Nursing, and the Post-Master's Advanced Certificate in Adult Health Nursing and Gerontological Nursing. The department also offers an associate's degree program that prepares students for the New York State Board of Nursing Examination for license as a Registered Nurse. The associate's and bachelor's degree programs are accredited by the National League for Nursing Accrediting Commission and all programs hold New York State Certification. Health education courses and courses fulfilling the Physical Education requirement are offered by this department. Professor Margaret Lunney is coordinator of the Master's program in Adult Health Nursing.

Department of Performing and Creative Arts

Center for the Arts (1P)
Sylvia Kahan, Chairperson and Associate Professor

The department offers Bachelor's degrees in Art, Dramatic Arts, and Music; a concentration in Photography with the Art major; a concentration in Electrical Technology with the BS in Music; and a Dramatic Literature concentration jointly with the Department of English. Students may minor in Art, Dance, Dramatic Arts, and Music; a program for Psychology majors interested in dance therapy provides for a minor in Dance.

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 Political Science, Economics, and Philosophy**

History/Political Science, Economics, and Philosophy Building (2N) - North Academic Quadrangle

Vasilios Petratos, Chairperson and Associate Professor


The department offers Bachelor's degrees in Economics, Political Science, and Philosophy; and it offers Bachelor's degree programs in Economics with a Business specialization and a Finance specialization jointly with the Department of Business. A dual major is offered in Philosophy and Political Science. Minors are offered in Economics, Philosophy, Political Science, and Public Administration; and geography and legal studies courses are offered by this department. 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. Lecturer Jonathan McFall serves as the adviser to students planning to apply to law school.

**Department of Psychology**

Psychology/Sociology, Anthropology, and Social Work Building (4S) - South Academic Quadrangle

Wallace Orlowsky, Chairperson and Associate Professor


The department offers the Bachelor's degree and a minor in Psychology. Students interested in dance therapy may minor in a program offered with the Department of Performing and Creative Arts. The department also participates in the College's Master's program in Neuroscience.

**Department of Sociology, Anthropology, and Social Work**

Psychology/Sociology, Anthropology, and Social Work Building (4S) - South Academic Quadrangle

Jacqueline LeBlanc, Chairperson


The department offers a combined Bachelor's degree in Sociology/Anthropology, and the Bachelor's degree in Social Work. 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 Studies.

**Department of Student Services**

South Administration Building (1A)

Carol Jackson, Chairperson, Professor, and Vice President for Student Affairs


The department offers courses in new student orientation, career development, and personal growth and development. The SEEK program and Counseling Center are located in the South Administration Building.
Division of Student Affairs
Vice President Carol Jackson, South Administration Building (1A), Room 301
Associate Dean, Michael R. Daniels

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 student awards programs, health services, intercollegiate and intramural sports, and the Commencement exercises. Management of the Sports and Recreation Center and the Campus Center are under the auspices of the Division. The Department of Student Services offers courses in Issues in College Life, Career Development, and Personal Growth and Development, and internships.

Campus Center

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 1.718.982.3071.

The Career and Scholarship Center

The Center provides current students and graduates with career, internship, and placement services such as résumé referral, job fairs, the Mentor Program, the Senior Employment Referral Program, on-campus interviews, and a computer database of full- and part-time jobs, internships, and fellowships. Help is available for organizing job search campaigns, preparing résumés and cover letters, and improving interview skills. Seniors may maintain a dossier file for job referrals at the Center.

Career-related workshops are given throughout the year, and the Center maintains a library of company literature, magazines, and videotapes. The placement Webpage allows students to explore Internet links for employment opportunities with the capability of uploading résumés for employer review.

The Center staff assists with applications and preparation for fellowships, scholarships, and awards, and with writing personal essays and mission statements.

Children’s Center

The Children’s Center is sponsored by the CSI Association and provides educational 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. The Center is located in Building 2R, adjacent to the Sports and Recreation Center Building, and the telephone number is 1.718.982.3190.

Clubs, Organizations, and Publications

The CSI Student Government and the Office of Student Life charter and recognize student clubs, organizations, and publications. Any group of students with a common interest may request a charter for a student club, organization, or publication 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 student groups 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 1.718.982.3088.

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, intramural programs, the Children’s Center, Health and Wellness, WSIA, and the Program Development Committee.
Counseling Services

Comprehensive academic and personal counseling services are provided by professionally trained counselors to help students achieve academic success. In individual or group sessions, students are assisted in improving their study skills, choosing a curriculum compatible with their interests and career goals, and handling problems that impede their progress toward a degree. Career counseling services help students to gain a better understanding of themselves, their career options, and the world of work. Individual counseling may include testing and other assessment techniques. Information and counseling in preparation for graduate and professional schools is also provided by counselors. The Office maintains a library of information on careers and job market resources.

Disability Services

The Office of Disability Services has responsibility for providing services for students with a documented disability. All documentation is kept confidential and should be submitted directly to the Office. Services include pre-admissions counseling and accessibility information, advisement, priority registration, and testing accommodations. Software for tutorial programs, personal computers, scientific calculators, tape recorders, and a Braille writer are available. The Resource Center for the Deaf serves the specific needs of deaf and hard of hearing students by providing interpreters, tutors, and notetakers. Interpreters are available for academic advisement, teacher conferences, or College business. The College’s policy for students with disabilities conforms to federal guidelines and the Office offers services mandated by federal and state law. All students with disabilities are encouraged to use the services of the Office. Services are also available to students who are temporarily disabled. The Office is located in the Center for the Arts, Room 101.

Health Services

The College Health Center, located on the main floor of the Campus Center, Room 112, is staffed by part-time nurse practitioners (funded by the Student Activity Fee) in collaboration with Staten Island University Hospital and College personnel. Nurse Practitioners and a full-time Registered Nurse are available for College physicals, emergency care, consultations, immunizations, smoking cessation, HIV/AIDS counseling and testing, contraception and pregnancy counseling, and other services. The telephone is 1.718.982.3045; TTY 1.718.982.3315.

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 baseball, basketball, soccer, softball, swimming, tennis, 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. Academic qualification:
<table>
<thead>
<tr>
<th>Credits Attempted</th>
<th>Minimum Cumulative GPA</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-graduation</td>
<td>2.00</td>
</tr>
</tbody>
</table>
3. Maintenance of satisfactory progress toward completion of a bachelor’s degree.

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

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 and social services for high school and junior high school students who are at risk of dropping out of school.

Ombudsperson

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 in the South Administration Building (1A), Room 301.

**New Student Orientation/College Life Unit Experience (CLUE) Program**

The New Student Orientation/CLUE 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 Office, North Administration Building (2A), Room 208.

**Pluralism and Diversity**

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 American society. The Office offers programming, workshops, and training sessions on sensitivity and diversity.

**Program Development Committee (PDC)**

The Program Development Committee, 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 Committee 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 1.718.982.2814.

**Publications**

Students at CSI publish a bi-weekly newspaper, *The Banner*; a political journal, *The College Voice*; a politics and literary arts magazine, *Third Rail*; a literary journal focusing on women’s studies, *All Ways a Woman*; a literary magazine, *The Serpentine*; 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 are invited to visit the publications’ offices or the Office of Student Life in the Campus Center.

**SEEK Program**

SEEK (Search for Education, Elevation, and Knowledge) is a special program designed to provide higher education opportunity, through academic and financial support services, for eligible students. The SEEK program provides intensive remediation in basic skills, including special summer classes; special testing, guidance, and counseling; supplemental instruction and tutoring; and financial assistance for students accepted to the program.

**Sports and Recreation Center**

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**

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 involves also staff from the CSI Association, the Student Government, and the Program Development Committee. 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 1.718.982.3088.

**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; Publications; 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 1.718.982.3082.

Wellness Program

The Wellness Program Office presents an integrated array of special events, seminars and workshops, and counseling services with a common goal of educating the College community about wellness issues. Professional counseling and intervention services concerning substance abuse, HIV/AIDS, domestic violence, stress management, date rape, and other wellness issues are coordinated by this Office. A Peer Drop-In Center is staffed by trained Peer Educators who meet with students and provide information.

WSIA - 88.9 FM

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 broadcasters and broadcasts at 88.9 FM. The state-of-the-art studios, located in the Campus Center, 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 in Room 106 of the Campus Center and fill out an application. The telephone number is 1.718.982.3050.

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 1.718.982.4080, visit cix.csi.cuny.edu and click on the appropriate links, or visit www.csi.cuny.edu/currentstudents and select the link “Look up CSI’s email & Login ID to access CSI’s computers.”
Academic Advisement

Director, Dr. Marianne B. Carlin, South Administration Building (1A), Room 101

The Office of Academic Advisement serves new students as well as those who have not declared a major. Advisement is provided to students in groups and individually. The Office staff also provides students with individualized degree program plans each semester to guide them in their course selections.

Adults Returning to College Program (ARC)

Coordinator, Ms. Donna Fauci, North Administration Building (2A), Room 103

The College offers a gateway program for adults returning to college after a hiatus or entering college for the first time. The ARC program provides personalized, comprehensive support services from pre-admission counseling to registration in ARC classes as well as other college courses. The goals of the ARC program are to ease the process of enrolling at the College and to facilitate the transition of adult students into the College.

Center for the Arts

Artistic and Managing Director, Ms. Lisa Reilly, Center for the Arts (1P), Room 116

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 houses the Clara and Arleigh B. Williamson Theatre, a 450-seat, proscenium-stage theater; a 900-seat concert hall; a 150-seat recital hall; a 150-seat lecture hall, and an art gallery. It sponsors an annual performance series, which includes a wide variety of music, theater, comedy, and family programming.

Center for International Service

Director, Ms. Ann Helm, North Administration Building (2A), Room 206

The Center for International Service 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)

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, and college orientation; and assists in off-campus adjustment.

International Faculty Development Programs

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

Study Abroad

The Center offers a variety of study abroad programs with partner institutions around the world including the following: the University of the West Indies in Barbados; Nanjing University and Shanghai University in China; the Danish International Studies Program (DIS) in Copenhagen, Denmark; the Catholic University of Guayaquil and the University of San Francisco de Quito in Ecuador; Middlesex University in England; the American College of Thessaloniki in Greece; Scuola Lorenzo de Medici in Florence and the American University of Rome in Italy; the Universidad Menéndez Pelayo in Spain; and the Hanoi University of Foreign Studies in Vietnam. 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 level of ability. A minimum grade point average of 2.5 is required for participation in most of the CSI-sponsored study abroad programs. The staff of the Study Abroad program provides assistance and information about admissions, financial aid and scholarships, 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.
Evening, Weekend, and Summer Sessions

Coordinator, Mr. Thomas Brennan, North Administration Building (2A), Room 204

The Office of Evening, Weekend, and Summer Sessions provides administrative assistance and academic advisement for evening, weekend, and summer students, and advocates the special needs of this student population within the College community.

The College regularly schedules a wide choice of courses in the evening and on the weekend. These courses accommodate students in graduate, baccalaureate, and associate’s degree programs who prefer to take classes at these times. Classes in the evening session start at 6:30 pm or later; weekend session classes are scheduled on Saturday mornings and afternoons, as well as on Sunday afternoons.

The Summer Session offers courses in a mix of schedules: four-week courses meet day and evening in June and July; six-week courses meet Saturday and Sunday mornings during June and July; eight-week courses meet day and evening during June and July. The varied summer session course schedule provides an opportunity for students to accelerate completion of their degree programs.

The FIRST Program

The College offers a special program called Freshman Integrated Resources, Support, and Teaching (FIRST) for new students who, upon entry, have passed the three CUNY assessment tests. Students enroll in a learning community of three or more courses, all of which satisfy the College’s general education requirements. FIRST is designed to provide a student experience that assists in the transition from high school to college and that promotes a sense of belonging to the CSI community. Students develop peer friendships and build relationships with faculty and other key personnel who assist them in their academic pursuits.

Freshman Workshop Program

The Freshman Workshop Program assists students who require comprehensive instruction in reading and writing for college by allowing them to enroll in a block of two or three linked courses: a remedial or English as a Second Language (ESL) reading and/or writing course and a specified compensatory section of an introductory 100-level course such as COM 100, PSY 100, or HST 100. Some blocks may also include a math course.

The compensatory sections incorporate the full content of the regular introductory courses, but they are offered on a four-hour/three-credit basis for four equated credits. The additional hour is devoted to providing instructional support and assisting students with course readings and writing assignments. The linked courses in the block are coordinated to enhance the development of the students’ skills. Students must also attend the Writing Center for at least one hour each week for tutoring.

Honors College

Coordinator: Professor Susan Holak, South Administration Building (1A), Room 206

The Honors College is designed for capable and highly motivated students who meet rigorous admissions criteria. During their first and second years, Honors College students enroll in a variety of innovative and challenging courses and develop with their faculty a cohesive intellectual community. In their third and fourth years, Honors College students pursue their fields of study in a wide range of majors and specializations, and may elect to meet a program’s criteria for graduation with honors. The College participates in the CUNY Honors College: University Scholars Program.

Please see the sections on Admissions and on Programs and Course Descriptions for details about the requirements.

Laboratories

The Biological Sciences/Chemical Sciences 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.
Library/Media Services

Chief Librarian, Associate Professor Wilma L. Jones, Library (1L), Room 109

The Library is the focal point of the South Academic Quadrangle. The building, with its distinctive rotunda, is the home for 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 and online services and databases that serve as point-of-access to informational resources beyond the walls of the Library; an instructional facility for the teaching of information retrieval and information literacy; and media distribution services in support of instruction.

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 microform area, 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—Thursday  . . . . . .8:00am–10:00pm
Friday . . . . . . . . . . . . . . . . . .8:00am–8:00pm
Saturday ...............................8:30am–5:00pm
Sunday..................................noon–5:00pm

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 210,000 bound volumes of books, 96 online databases (of which more than 30 are full text), 1,100 current print journal subscriptions, 800 titles in microform, 2,000 videos, and over 4,000 sound recordings.

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
Director: Mr. Mark Lewental, Library (1L), Room 201

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.

Testing Services

Director, Mr. Alan Hoffner, South Administration Building (1A), Room 104

The Testing Office tests in the following areas: the CUNY Basic Skills Tests in writing, reading, and mathematics; the departmental placement examination in Biology; the CUNY Proficiency Examination; occupational/career and interest testing; and the test that enables students to earn college credits, the College Level Examination Program (CLEP).

The Writing Center

Director, Mr. Robert Brandt

The Writing Center is under the supervision of the Department of English, Speech, and World Literature and is located in the English, Speech, and World Literature/Modern Languages Building (2S), Room 216. 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.

College Advancement

Vice President for College Advancement, Mr. Richard Truitt, South Administration Building (1A), Room 401

The Office of College Advancement 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.
Alumni Relations
South Administration Building (1A), Room 110

The Office of Alumni Relations maintains communication with alumni through activities and newsletters. The Office also assists the CSI Alumni Association, which was established in 1977 to develop and maintain a partnership among alumni, students, faculty, and staff of the College. All persons who have received a degree or certificate from the College of Staten Island or its antecedent institutions, Richmond College and Staten Island Community College, are eligible for membership in the Alumni Association. An elected Alumni Council provides leadership for the Association.

Information Technology
Vice President for Technology Systems, Michael Kress, North Administration Building (2A), Room 303

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 23 specialized computing laboratories in conjunction with academic departments for student use. The microcomputers, approximately 2,500 on campus, are connected through a high-speed local area network. This hardware configuration allows students, faculty, and staff full access to specialized software, the Internet, online library resources, and email. Forty-five classrooms, two conference rooms, and two portable units are equipped to run multimedia presentations from a central location. One of the conference rooms is equipped for two-way videoconferencing. Most microcomputers on campus use Windows 2000 or Windows XP. The OIT homepage is [www.csi.cuny.edu/helpdesk/](http://www.csi.cuny.edu/helpdesk/).

Instructional Support Services

The Office of Instructional Support Services offers a variety of programs to enhance the academic preparation of all students, with particular attention to first-year students. The Office coordinates the FIRST program (see page 36), an initiative that targets the needs of new students who have passed the three CUNY assessment tests. The Immersion Program is also offered, providing intensive reading, writing, and mathematics workshops for students who have not passed one or more of the assessment tests. The Brooklyn Educational Opportunity Center/College of Staten Island initiative offers intensive reading, writing, and mathematics instruction to triple remedial students. The CUNY Language Immersion Program offers intensive reading, writing, and other related instruction to English as a Second Language students. Preparatory workshops for the College Proficiency Examination and tutoring in a broad range of areas are offered to all students throughout the academic year.

Discovery Institute

Director, Dean Leonard Ciaccio, South Administration Building (1A), Room 211

The Discovery Institute offers several pre-college programs that strengthen the academic preparation of students while they are still in high school and others that encourage college students to consider teaching careers. The Institute also provides opportunities for teachers to develop new teaching strategies. The programs are supported by the resources of the College and by grants from a variety of state, federal, and private institutions.

Collegiate Science and Technology Entry Program (CSTEP)

CSTEP provides academic support and enrichment for minority and/or economically disadvantaged freshmen students considering careers in science and technology.

Science and Technology Entry Program (STEP)

STEP provides pre-college preparation in science and technology for minority and economically disadvantaged high school students and staff development for teachers.

Ombudsperson

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.

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Students can file an official complaint or put information “on the record” at the Office of the Ombudsperson in the South Administration Building (1A), Room 301.

The Women’s Center

Coordinator, Assistant Professor Ellen J. Goldner

The 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 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 on the Web at www.library.csi.cuny.edu/~wrc.
This chapter covers College policies that govern meeting the academic standards and requirements to maintain matriculated status and to qualify for a degree.

Grades

**Grading Symbols**
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>
</tr>
<tr>
<td>A-</td>
<td></td>
<td>3.7</td>
</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>
<td>B-</td>
<td></td>
<td>2.7</td>
</tr>
<tr>
<td>C+</td>
<td>Satisfactory</td>
<td>2.3</td>
</tr>
<tr>
<td>C</td>
<td></td>
<td>2.0</td>
</tr>
<tr>
<td>D</td>
<td>Pass</td>
<td>1.0</td>
</tr>
<tr>
<td>F</td>
<td>Failing/unsuccessful completion of course</td>
<td>0.0</td>
</tr>
<tr>
<td>P</td>
<td>Passing</td>
<td></td>
</tr>
<tr>
<td>W</td>
<td>Withdraw with no penalty</td>
<td></td>
</tr>
<tr>
<td>WA</td>
<td>Administrative Withdrawal</td>
<td></td>
</tr>
<tr>
<td>WU</td>
<td>Withdraw Unofficially (counts as failure)</td>
<td>0.0</td>
</tr>
<tr>
<td>INC</td>
<td>Incomplete (temporary grade)</td>
<td></td>
</tr>
<tr>
<td>AUD</td>
<td>Auditor</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</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 Medical Office 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.

**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.

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

**PEN** The pending grade is used in the first semester of a two-semester course.
Grade Appeals

Students wishing to appeal a grade other than WU or FIN must do so within 60 school days, excepting summer session, 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 appeal a WU or a FIN grade must file a written petition supported by documentation to the Committee on Course and Standing.

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</th>
<th>Total Quality Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 111</td>
<td>A</td>
<td>3</td>
<td>4</td>
<td>12</td>
</tr>
<tr>
<td>COR 100</td>
<td>B</td>
<td>4</td>
<td>3</td>
<td>12</td>
</tr>
<tr>
<td>ART 100</td>
<td>C</td>
<td>3</td>
<td>2</td>
<td>6</td>
</tr>
<tr>
<td>ANT 100</td>
<td>D</td>
<td>3</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>PED 190</td>
<td>F</td>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Total Credits</td>
<td>14</td>
<td></td>
<td>Total Quality Points</td>
<td>33</td>
</tr>
</tbody>
</table>

GPA = \[ \frac{\text{Quality Points}}{\text{Total Credits Attempted}} \]

Students may calculate current and prospective grade point averages using the GPA calculator feature on the College's Website, www.csi.cuny.edu.

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 eSIMS via the CUNY Portal (www.cuny.edu). Email notification is sent to students each semester when grades are available in eSIMS.

Students may request that their transcript be sent to other institutions (see Fee Schedule). To be official, transcripts must be signed and sealed by the Registrar. There is no fee for transcript requests to be sent to another CUNY institution. Requests to be sent to another CUNY institution may be submitted online at www.csi.cuny.edu/registrar/importantforms.

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 adviser is based upon this official listing. All students who have completed 60 credits and have passed all three CUNY Basic Skills 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 60 credits may also declare a bachelor's degree major provided they meet the following criteria:

- have passed the three CUNY Basic Skills Tests
- 13–24 credits completed and 3.0 Grade Point Average
- 25–39 credits completed and 2.5 Grade Point Average
- 40–59 credits completed and 2.0 Grade Point Average

Change of Curriculum or Major

Students who wish to change their major or whose academic advisement plan or transcript shows that they are recorded incorrectly in
a curriculum or major should file a Change of Curriculum or Major form with the Registrar's Office. There is no fee.

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 wishing to declare a second major may do so by completing a form available from the Office of the Registrar.

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, North Administration Building (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 eight credits and may not register for two four-week courses simultaneously.

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

- Freshman: 0 - 27.5 credits completed
- Sophomore: 28 - 60.5 credits completed
- Junior: 61 - 93.5 credits completed
- Senior: 94+ credits completed.

Standing is sometimes listed as a course prerequisite.

Dean's List
A matriculated undergraduate student, full-time or part-time, merits inclusion on the annual dean's list by: a) for full-time, attaining a GPA of 3.5 or above during the preceding academic year, provided at least 24 credits were earned during that period; b) for part-time, attaining a GPA of 3.5 or above over the last two academic years, provided at least 24 credits were earned during that period. Only credits earned at the College of Staten Island will enter the computation. Students who have received a grade of F, 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, graduation, and CPE issues.

Students can petition the Committee through an appeals counselor in the Division of Student Affairs. 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.

Midterm Warnings
Students with an excessive number of absences and students with grades of D or F in 200- or lower-level courses receive midterm warnings. Students receiving a warning are expected to consult their course instructor; they may also wish to consult their faculty adviser.
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, 2.00 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 each semester 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 eight credits in the summer session and may not register for two four-week courses simultaneously.

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 must have their application reviewed by the Committee on Course and Standing. Students wishing to apply for readmission should obtain information from the Counseling Center, South Administration Building (1A), Room 109.

Testing

CUNY Basic Skills Tests

Each undergraduate student must successfully complete The City University of New York Basic Skills 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/ACT Basic Skills 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 considered proficient in the Math Basic Skills Test if their mathematics score on the SAT is 480 or higher; if their mathematics score on the ACT is 20 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. 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 45 or more credits at another institution are exempted from all three tests provided that the students are transferring from United States accredited colleges or universities. 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 basic skills testing 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 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 basic skills 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 basic skills 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/ACT reading skills test is a prerequisite to all courses at the 200 level or higher.

No associate's or bachelor's degree will be awarded unless the tests have been passed.
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.

Placement Examinations
Placement examinations are offered by the Department of Biology and the Department of Modern Languages. 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.

CUNY Proficiency Examination
Effective fall 2003, all students admitted to a degree program, regardless of date of entry, are required to pass the CUNY Proficiency Examination to graduate from associate’s degree programs, transfer into a senior college, or advance from the lower division to the upper division of a senior college.

Exemptions are granted to students holding bachelor’s or other advanced degrees from an accredited institution. Exemptions may be granted for accommodations to comply with Section 504 of the Rehabilitation Act.

The University will administer the Proficiency Examination at the College several times each year. For information concerning the examination, students should consult the Testing Office, 1A-104.

Students are required to take the CPE each semester once they have completed 45 credits until they pass the exam. Students who do not sit for a required exam fail that exam. Students who fail the exam three times will lose their matriculation as a degree student and will be coded as a non-degree student. The Committee on Course and Standing considers appeals concerning the CPE. Students should consult a counselor in the Counseling Center, 1A-109 with CPE concerns.

Graduation

Application for Graduation
Students must file for graduation by the date published in the College academic calendar in the Schedule of Classes. There is no fee for this application. Application cards for graduation may be obtained at the Registrar’s Office or from the College’s Website. 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 satisfied the degree requirements but wish to take additional credits beyond the degree 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 grade point average of 2.0 (C). Associate’s degree programs require a minimum of 60 credits with a minimum grade point average of 2.0 (C). 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. The successful completion of the College Preparatory Initiative (CPI) and all general education and core or major requirements is required for graduation. All students must pass the three CUNY Basic Skill exams and the CUNY Proficiency Exam.

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.

En-Route Associate’s Degree
The associate’s degree will be awarded to matriculated students who have neither applied for nor been awarded the AA, AS, or AAS degree
but who have completed all of the degree requirements including at least 30 credits earned in residence. Students who meet these requirements will be notified of their eligibility for the degree and given the opportunity to decline.

**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 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 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 2005. The “Grandfather” clause is designed for students who matriculated in a degree program, major, or curriculum prior to that academic year. This provides that students may meet degree requirements in effect the year of their matriculation in a particular program, curriculum, or major, provided the student has not had an interruption in matriculation exceeding four consecutive fall and spring semesters.

Students changing major or curriculum are subject to the requirements in effect the year of the change. For general education degree requirements only, students may choose to follow requirements of the *Catalog* in effect the first time they matriculated at the College, provided that no more than ten years have elapsed from initial matriculation to the change of major or curriculum. Students must notify the Registrar in writing that they are exercising this option.

Students who hold the associate in arts degree, students who hold the associate in science degree, or students who hold a baccalaureate degree from an accredited post-secondary institution are considered to have completed general education requirements. Students who hold the associate in applied science degree must complete the general education requirements specified by further degrees.

**General Policies**

**Attendance Policies**

Instructors are required to keep an official record of class attendance. Students are expected to attend all sessions. 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.

Special attendance policies apply to all remedial courses in reading, writing, mathematics, and in English as a Second Language, as follows:

1. for courses meeting four hours per week, seven hours of absences will be allowed; students with an eighth hour of absence will be considered excessively absent and will receive a WU grade, unless excused by the instructor;
2. for courses meeting three hours per week, four hours of absences will be allowed; students with a fifth hour of absence will be considered excessively absent and will receive a WU grade, unless excused by the instructor.

**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. To qualify for early registration, application for readmission must be filed by the deadline specified in the academic calendar published in the *Schedule of Classes*. Students who do not apply for readmission by the deadline may be readmitted and register during the walk-in registration dates published in the *Schedule of Classes*. Students who have been academically dismissed by the College will be readmitted only upon successful appeal to the Committee on Course and Standing.

**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
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 recalculated 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 the failing grades may be recalculated, 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 on-site 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).

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.
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 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.
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, on-site supervisor (where applicable), and the chairperson of the department or coordinator of the program.
6. 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 Independent Study and Internship students a meeting and an evaluation of progress with the faculty sponsor is expected at least bimonthly.
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 Recruitment and Admissions, North Administration Building (2A), Room 406.

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.
Degree Programs

**Associate In Arts (AA)**
- Liberal Arts and Sciences

**Associate in Science (AS)**
- Architectural Studies
- Engineering Science
- Liberal Arts and Sciences

**Associate in Applied Science (AAS)**
- Business
- Computer Technology
- Electrical Engineering Technology
- Medical Laboratory Technology
- Nursing

**Bachelor of Arts (BA) and Bachelor of Science (BS)**
- Accounting (BS)
- African American Studies (BA)
- American Studies (BA)
- Art (BA) and (BS)
  - Art/Photography Concentration
- Biochemistry (BS)
- Biology (BS)
  - Bioinformatics Option
- Business (BS)
  - Business/Finance Concentration
  - Business/International Business Concentration
  - Business/Management Concentration
  - Business/Marketing Concentration
- Chemistry (BS)
- Cinema Studies (BA)
- Communications (BS)
- Computer Science (BS)
- Computer Science-Mathematics (BS)
- Dramatic Arts (BS)
- Economics (BA) and (BS)
  - Economics/Business Specialization (BS)
  - Economics/Finance Specialization (BS)
- Education (Education students major in an academic discipline)
- Engineering Science (BS)
- English (BA)
  - English/Dramatic Literature Concentration
- History (BA)
- Information Systems (BS)
- International Studies (BA)
- Mathematics (BS)
- Medical Technology (BS)
- Music (BA) and (BS)
  - Music/Electrical Technology Concentration (BS)
- Nursing (BS)
- Philosophy (BA)
- Philosophy/Political Science (BA)
- Physician Assistant (BS)
- Physics (BS)
Political Science (BA)
Psychology (BA)
Science, Letters, and Society (BA)
Social Work (BA)
Sociology-Anthropology (BA)
Spanish (BA)
Women’s Studies (BA)

**Graduate Degrees and Professional Certificate Program**
See *Graduate Catalog* for details.
- Biology (MS)
- Business Management (MS)*
- Cinema and Media Studies (MA)
- Computer Science (MS)
- Education
  - Childhood Education (MSEd)
  - Adolescence Education (MSEd)
  - Special Education (MSEd)
  - Leadership in Education (Advanced Certificate)
- English (MA)
- Environmental Science (MS)
- History (MA)
- Liberal Studies (MA)
- Neuroscience, Mental Retardation, and Developmental Disabilities (MS)
- Nursing, Adult Health and Gerontological (MS)
- Nursing, Adult Health and Gerontological (Advanced Certificate)
- Physical Therapy (DPT) offered jointly with Hunter College and the CUNY Graduate Center
- Computer Science (PhD) offered with the CUNY Graduate Center
- Learning Processes (PhD) offered as a subprogram of the Psychology program of the CUNY Graduate Center
- Neuroscience (PhD) offered as a subprogram of the Biology program of the CUNY Graduate Center
- Physics (PhD) offered with the CUNY Graduate Center
- Polymer Chemistry (PhD) offered jointly with Brooklyn College and the CUNY Graduate Center
*Approved University governance pending SED approval.

**Certificate Awards**
- Modern China Studies
This chapter provides detailed information on college preparation, testing, and orientation; requirements applicable to all degree programs—general education, liberal arts and sciences, core/major, minor, and honors—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.

**CUNY Basic Skills Tests**

- **ENGLISH:** Each student must successfully complete The City University of New York/American College Testing Reading Skills Test (C/ARST). Each student must successfully complete The City University of New York/American College Testing Writing Sample Test (C/AWST).
- **MATHEMATICS:** Each student must successfully complete The City University of New York Mathematics Assessment Test (CMAT), which tests proficiency in basic mathematics skills.

(See section on Testing in the chapter on Academic Policies and Procedures.)

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.

**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:

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

**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.

**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 [www.csi.cuny.edu/studenthelpdesk/Training.htm](http://www.csi.cuny.edu/studenthelpdesk/Training.htm) or call 1.718.982.3695.

**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, Physician Assistant; Associate in Applied Science (AAS): Computer Technology, Electrical Engineering Technology, Medical Laboratory Technology, Nursing; Associate in Science (AS): Architectural Studies.
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.

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 adviser when choosing elective courses.

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 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, it is necessary to complete the requirements of the second field of study and to complete at least 30 credits more than the number of credits required to complete the first degree.

Minor Requirements

In addition to completing the requirements of a major for a bachelor's degree, students may choose to minor in a discipline related to or complementary to their major field of study. Minors may be completed in almost all areas of study offered by the College. 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.

To have a minor recorded on the student's final transcript, the student must apply for the minor when filing for graduation.

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. 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.

Courses used to fulfill pre-major requirements may also be used to fulfill general education requirements but may not be used to fulfill major requirements.

Courses used to fulfill core or major requirements may also be used to fulfill the Pluralism and Diversity requirement but may not be used to fulfill other general education requirements.

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.
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 WMS for Women's 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. 500-level courses, by their very nature, have no registered description and are not listed under courses 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).
Students in American colleges and universities are required to take courses in what is called general education. These courses provide a broad and comprehensive introduction to knowledge as it is organized by academic disciplines. General education provides students with the skills and knowledge expected of educated persons to:

- read challenging texts in English and to write clearly and expressively;
- experience at least one laboratory science as well as mathematics;
- explore one or more social sciences and to comprehend their different perspectives on individuals and societies;
- have an introduction to the systematic study of literature and the arts;
- gain competence in at least one foreign language and knowledge of its cultural contexts;
- understand the historical development of United States institutions and relationships among contemporary world cultures.

General education also serves as an introduction to more specialized kinds of knowledge. Students finish general education courses with the skills and vocabulary that enable them to complete successfully courses in their majors in both associate’s and bachelor’s degree programs.

The general education requirements at CSI are arranged in the following categories: Required Courses; Scientific Analysis; Social Scientific Analysis; The Contemporary World; Textual, Aesthetic, and Linguistic Analysis; Foreign Language; and Pluralism and Diversity.

The general education courses comprise 33 to 59 credits of the total credits required for associate’s and bachelor’s degrees. Some of the courses are to be taken within the student’s first 36 credits; all general education courses should be taken within the student’s first 60 credits.

To receive an Associate in Arts, a Bachelor of Arts, or a Bachelor of Science degree at the College of Staten Island, students must complete the general education requirements as indicated below, including four required courses that should be completed within the first 36 credits. These required courses are: ENG 111, ENG 151, COR 100, and PED 190. In addition, each associate’s and bachelor’s degree offered by the College has a set of requirements providing for courses outside the student’s major field of study. These course offerings are grouped in the categories listed below; the category each course satisfies is identified in the course descriptions by the designation in parenthesis. With the exception of the Pluralism and Diversity requirement, courses used to meet the general education requirements may not count toward core or major requirements. Courses that are marked with an asterisk (*) may also fulfill the Pluralism and Diversity requirement.

For the Honors College and for the Associate in Science and Associate in Applied Science degree programs, the general education requirements vary. Please see the general education requirements of the following programs appearing in the major requirements section of the Catalog: Associate in Science (AS): Architectural Studies, Engineering Science, Liberal Arts and Sciences; Associate in Applied Science (AAS): Business, Computer Technology, Electrical Engineering Technology, Medical Laboratory Technology, and Nursing.

### Required Courses

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENG 111</td>
<td>Communications Workshop</td>
<td>4 hours; 3 credits</td>
</tr>
<tr>
<td>ENG 151</td>
<td>College Writing</td>
<td>4 hours; 4 credits</td>
</tr>
<tr>
<td>COR 100</td>
<td>United States: Issues, Ideas, and Institutions</td>
<td>4 hours; 4 credits</td>
</tr>
<tr>
<td>PED 190</td>
<td>Fitness for Life</td>
<td>2 hours; 1 credit</td>
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</tbody>
</table>
Courses fulfilling the Scientific Analysis requirement belong to the disciplines of Natural and Applied Science, Technology, and Mathematics. These courses are designed to enhance the students' knowledge and understanding of scientific concepts, methods, practices, and applications, seeking to develop a basic understanding and appreciation of science in general, as well as of a particular science field. These courses are intended to give students the opportunity to develop their ability to reason and their capacity for rigorous critical analysis.

A. Science and Technology: 8 credits

Courses fulfilling this requirement are in the disciplines of astronomy, biology, chemistry, electrical technology, geology, integrated science, and physics. One group of courses is designated as appropriate for students who do not intend to continue with advanced courses; another group is for students who do intend to continue.

Two semesters of laboratory science at the 100 level chosen from among the courses listed below, all of which have MTH 020 or its equivalent through placement as a prerequisite. Where appropriate, these courses will have experiments that incorporate the use of computers. They subscribe to the principle of writing across the curriculum and to the use of word processing in laboratory reports. Courses satisfying this requirement are marked (science) at the end of the course descriptions.

Scientific Analysis Courses

Science and Technology: courses are identified as (science) at the end of the course descriptions.

Courses designed for students seeking an introduction to the sciences whose curriculum does not require the study of science beyond the introductory level; these courses are not suitable as prerequisites for further study in the sciences:

- BIO 106/107 Principles of Biology I/Laboratory
- BIO 108/109 Principles of Biology II/Laboratory
- CHM 106/107 Chemistry for Today I/Laboratory
- CHM 108/109 Chemistry for Today II/Laboratory
- GEO 105 Environmental Geology
- PHY 102 Sound and Light
- PHY 103 Matter and Antimatter
- PHY 105 Galileo to Newton and Beyond
- PHY 107 Maxwell to Einstein and Beyond
- INS 100/101 Integrated Physical Science I/Laboratory
- INS 110/111 Integrated Physical Science II/Laboratory

Courses that provide the foundation for further study in the sciences:

- AST 100/101 Contemporary Theories of the Solar System/Planetary Laboratory
- AST 102/103 Contemporary Theories of the Universe/Galactic Laboratory
- AST 105 Observational Astronomy
- AST 120 Space Science I
- AST 160 Space Science II
- BIO 170/171 General Biology I/Laboratory
- BIO 180/181 General Biology II/Laboratory
- CHM 141/121 General Chemistry I/Laboratory
- CHM 142/127 General Chemistry II/Laboratory
- GEO 100/101 Physical Geology/Laboratory
- GEO 102/103 Historical Geology/Laboratory
- PHY 120/121 General Physics I/Laboratory
- PHY 160/161 General Physics II/Laboratory

Courses designed as introductory science sequences for students in particular programs; these courses are intended to be taken only by students in the programs for which they have been designed:

- CHM 110/111 Principles of Chemistry I/Laboratory
- CHM 116/117 Principles of Chemistry II/Laboratory
  (for Nursing and Physician Assistant students)
- PHY 110/111 College Physics I/Laboratory
- PHY 150/151 College Physics II/Laboratory
- PHY 153 Waves, Optics, and Modern Physics
  (for Engineering Technology students)
- PHY 114 Introduction to Physics (for Nursing students)
- PHY 116 Physics I
- PHY 156 Physics II (for Health Science and Life Science students)

Courses designed to introduce students to the application of science in technology:

- EIL 102 Introduction to Electrical and Electronic Technology
- EIL 124/121 Principles of Electricity Fundamentals/Laboratory
- EIL 240/241 Principles of Digital Electronics/Laboratory
- SCI 106 Power, Pollution, and Energy
B. Mathematics: 3-4 credits

Courses fulfilling this requirement are broadly divided into four categories and choices should be based on the student’s intended field of study. In selecting a course appropriate to a specific major, refer to the section on Mathematics for information on placement tests, course descriptions, and prerequisites. Courses numbered at 100 or higher that fulfill this requirement are marked (math) at the end of the course description.

Mathematics Courses
One course numbered 100 or higher with three credits or more:

100-level courses that satisfy this requirement:
- MTH 102 Mathematics for Liberal Arts Students
- MTH 109 Mathematics and the Environment
- MTH 113 Introduction to Probability with Statistics and Computer Applications
- MTH 121 Finite Mathematics
- MTH 123 College Algebra and Trigonometry
- MTH 130 Pre-Calculus Mathematics

200-level courses that satisfy this requirement include:
- MTH 214 Applied Statistics Using Computers
- MTH 230 Calculus I with Pre-Calculus
- MTH 231 Analytic Geometry and Calculus I
- MTH 235 Accelerated Calculus I

Students should consult the Department of Mathematics to determine appropriate placement in this sequence of courses for further study of mathematics. Please note that some degree programs have specific requirements in mathematics. MTH 230, 231, and 235 each have MTH 229 Calculus Computer Laboratory as a corequisite.

Social Scientific Analysis  AA, BA, and BS  3 - 8 credits

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.

For Associate in Arts; Bachelor of Arts; Bachelor of Science in Art, Communications, Dramatic Arts, Information Systems, Music: 7 - 8 credits

Two courses to be selected from those offered in the social sciences, at least one of which must be at the 200 level. The 200-level courses have a significant writing component and subscribe to the principle of writing across the curriculum.

For Bachelor of Science with the exception of the Bachelor of Science in Art, Communications, Dramatic Arts, Information Systems, and Music: 3 - 4 credits

One course at the 100 or 200 level from the lists of those offered in the social sciences, with ENG 111 as prerequisite for the 200-level course. The 200-level courses have a significant writing component and subscribe to the principle of writing across the curriculum.

Social Scientific Analysis Courses
Courses are identified as (social science) at the end of the course descriptions. 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.

100-level courses
- AFA 160 African American History: 1619 to the Present
- AMS 101 America: An Introduction
- ANT 100 Introduction to Anthropology
- ECO 101 Introduction to Economics
- GEG 100 Introduction to Geography
- HST 100 Past and Present
- HST 116 Freshman Seminar in History
- HST 160 African American History: 1619 to the Present
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<td>INT</td>
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<tr>
<td>POL</td>
<td>103</td>
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</table>

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

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<td>WMS</td>
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<td>NYC History and Problems</td>
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<tr>
<td>HST</td>
<td>249*</td>
<td>Italian American History</td>
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<td>HST</td>
<td>251*</td>
<td>History of the U.S. City</td>
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<td>HST</td>
<td>252*</td>
<td>History of Education in the U.S.</td>
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<tr>
<td>HST</td>
<td>257*</td>
<td>The History of American Immigration</td>
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<td>HST</td>
<td>258</td>
<td>Vietnam and America: 1945-1975</td>
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<td>HST</td>
<td>262*</td>
<td>African American History: 1619-1865</td>
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<td>HST</td>
<td>263*</td>
<td>African American History: 1865-Present</td>
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<td>HST</td>
<td>265</td>
<td>History of the Caribbean</td>
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<tr>
<td>HST</td>
<td>269</td>
<td>Blacks in Urban America: 1900-Present</td>
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<tr>
<td>HST</td>
<td>270</td>
<td>Modern British History: 1700-1900</td>
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<tr>
<td>HST</td>
<td>273</td>
<td>Medieval Russia</td>
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<tr>
<td>HST</td>
<td>274</td>
<td>History of Modern Russia</td>
</tr>
<tr>
<td>HST</td>
<td>276</td>
<td>History of Italy</td>
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<tr>
<td>HST</td>
<td>277</td>
<td>Europe: 1815-1914</td>
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<td>MGT</td>
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<tr>
<td>PHL</td>
<td>200</td>
<td>Early Political Theory</td>
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<tr>
<td>PHL</td>
<td>202</td>
<td>Modern Political Theory</td>
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<tr>
<td>PHL</td>
<td>204</td>
<td>American Political and Legal Thought</td>
</tr>
<tr>
<td>PHL</td>
<td>210</td>
<td>American Philosophy</td>
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<tr>
<td>PHL</td>
<td>213</td>
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<td>Ideas of the World: 1600 to the Present</td>
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<td>Experience and Knowledge</td>
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<td>PHL</td>
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<td>Logic and Scientific Method</td>
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<td>PHL</td>
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<td>Philosophical Thinking</td>
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<td>PHL</td>
<td>224</td>
<td>Selected Issues in Metaphysics</td>
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<td>PHL</td>
<td>236</td>
<td>Life and Death</td>
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<td>PHL</td>
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<td>The Tragic Dilemma</td>
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<td>PHL</td>
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<td>Philosophy of Religion</td>
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<td>PHL</td>
<td>243*</td>
<td>Comparative Religion</td>
</tr>
<tr>
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<td>POL</td>
<td>204</td>
<td>American Political and Legal Thought</td>
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<td>POL</td>
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<td>Politics and Film</td>
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<tr>
<td>POL</td>
<td>221</td>
<td>The American Presidency</td>
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<tr>
<td>Courses</td>
<td>Degree Requirements</td>
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<td>POL 222 The American Legal System</td>
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<td>POL 223 Public Administration</td>
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<td>POL 231 City Hall and Albany</td>
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<td>POL 233 CUNY Internship Program in New York: Government and Politics I</td>
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<td>POL 234 CUNY Internship Program in New York: Government and Politics II</td>
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<tr>
<td>POL 235 The American Political System</td>
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<tr>
<td>POL 241 Western European Politics: United Kingdom, France, Italy, Germany</td>
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<tr>
<td>POL 244 From the Soviet Union to the Commonwealth of Independent States</td>
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<td>POL 246 Nazism and the Holocaust</td>
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<tr>
<td>POL 252* Middle East Politics</td>
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<tr>
<td>PSY 202 Psychopathology</td>
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<td>PSY 226 Theories of Personality</td>
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<td>PSY 242 Developmental Psychology</td>
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<td>PSY 288 Cognitive Psychology</td>
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<tr>
<td>SLS 225 Social Thought</td>
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<td>SLS 230 American Society</td>
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<tr>
<td>SLS 235 The American Political System</td>
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<tr>
<td>SLS 245 Contemporary Social Issues</td>
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<tr>
<td>SOC 202* Gender, Race, Ethnicity, and Class</td>
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<tr>
<td>SOC 210 Sociology of Health and Medicine</td>
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<td>SOC 212 Criminology</td>
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<td>SOC 220 Marriage and the Family</td>
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<td>SOC 225 Social Thought</td>
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<td>SOC 226 Socialization of the Child</td>
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<tr>
<td>SOC 230* Sociology of Women</td>
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<td>SOC 232 Sociology of Aging</td>
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<td>SOC 238* Sociology of Men</td>
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<tr>
<td>SOC 245 Contemporary Social Issues</td>
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<td>SOC 250 Sociology of Religion</td>
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<tr>
<td>SOC 255 Sociology of the Arts</td>
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<td>SOC 260* Class, Status, and Power</td>
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<td>SOC 270 The Community</td>
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<td>SOC 274 Social Welfare</td>
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<td>SOC 275 Sociology of Education</td>
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<td>SOC 280 Sociology and Politics</td>
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<tr>
<td>SOC 292 The Individual in Society</td>
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<tr>
<td>SWK 274 Social Welfare</td>
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<tr>
<td>WMS 202 Gender, Race, Ethnicity, and Class</td>
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<tr>
<td>WMS 217* Introduction to Women’s History</td>
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<td>WMS 230* Sociology of Women</td>
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<td></td>
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<tr>
<td>WMS 238* Sociology of Men</td>
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<tr>
<td>WMS 286* History of Education in the U.S.</td>
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</tr>
</tbody>
</table>

**The Contemporary World  AA, BA, and BS  4 credits**

Courses fulfilling this requirement are designed to provide an understanding of global and regional contexts. As COR 100 explores issues, ideas, and institutions in the United States, so 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.

A 200-level course to be selected from the list below. These courses have ENG 151 and COR 100 as prerequisites and 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.

**The Contemporary World Courses**

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.

<table>
<thead>
<tr>
<th>Courses</th>
<th>Degree Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECO 250 International Economics</td>
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<tr>
<td>ECO 251 International Political Economy</td>
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<tr>
<td>ECO 252 Economic Geography</td>
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<tr>
<td>ENH 209 Literature and Global Cultures</td>
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<tr>
<td>GEG 250 Conservation and Humanity</td>
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<tr>
<td>GEG 252 Economic Geography</td>
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<tr>
<td>GEG 264 Political Geography</td>
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<tr>
<td>HST 203 The World since 1914</td>
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<tr>
<td>HST 206* Modern China</td>
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<tr>
<td>HST 208* Modern Latin America</td>
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<tr>
<td>HST 209* Modern Japan</td>
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<tr>
<td>HST 210* History of Modern India</td>
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<tr>
<td>HST 271 Modern British History: 1900 to the Present</td>
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<tr>
<td>HST 272 Modern Germany</td>
<td></td>
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<tr>
<td>HST 278 20th-Century Europe</td>
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<tr>
<td>INT 200* The World and the West: Contemporary Issues</td>
<td></td>
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<tr>
<td>INT 201 Latin American Perspectives</td>
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<tr>
<td>POL 240* Comparative Government</td>
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<tr>
<td>POL 245 International Political Economy</td>
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<tr>
<td>POL 250* East Asian Politics</td>
<td></td>
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<tr>
<td>POL 256* International Politics: In Search of a New World Order</td>
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<tr>
<td>POL 260 International Organizations</td>
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<tr>
<td>POL 264 Political Organizations</td>
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<tr>
<td>PSY 213* Cross-cultural Psychology</td>
<td></td>
</tr>
</tbody>
</table>
Textual, Aesthetic, and Linguistic Analysis  AA, BA, and BS  3 - 8 credits

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 (literature) or (arts & com.) at the end of the course description.

For Associate in Arts; Bachelor of Arts; Bachelor of Science in Art, Communications, Dramatic Arts, Information Systems, Music: 6 - 8 credits

Two courses, one from the list of offerings in literature and one from the list of offerings in the arts or communications at the 100 and 200 level, with ENG 111 and, in some cases, ENG 151 as prerequisite for the 200-level course.

For Bachelor of Science with the exception of the Bachelor of Science in Art, Communications, Dramatic Arts, Information Systems, and Music: 3 - 4 credits

One course at the 100 or 200 level from the lists of those offered in literature, the arts, or communications with ENG 111 and in some cases English 151, as prerequisite for the 200-level course.

Textual, Aesthetic, and Linguistic Analysis Courses
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.

Literature: Courses are identified as (literature) at the end of the course descriptions.

200-level courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFA 221*</td>
<td>African American Literature</td>
</tr>
<tr>
<td>AFA 225</td>
<td>Contemporary Third World Literature</td>
</tr>
<tr>
<td>AMS 243</td>
<td>American Humor</td>
</tr>
<tr>
<td>DRA 215</td>
<td>Modes of Drama</td>
</tr>
<tr>
<td>DRA 260</td>
<td>History of Theater I</td>
</tr>
<tr>
<td>DRA 261</td>
<td>History of Theater II</td>
</tr>
<tr>
<td>ENH 201</td>
<td>English Literature to 1800</td>
</tr>
<tr>
<td>ENH 202</td>
<td>English Literature since 1800</td>
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<tr>
<td>ENH 203</td>
<td>Literary History of the U.S. to 1855</td>
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<tr>
<td>ENH 204</td>
<td>Literary History of the U.S. since 1855</td>
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<tr>
<td>ENH 205</td>
<td>Classics of European Literature</td>
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<td>ENH 206</td>
<td>Classics of Modern World Literature</td>
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<tr>
<td>ENH 207*</td>
<td>Classics of Asian Literature</td>
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<td>ENH 208</td>
<td>Contemporary Literature</td>
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<td>ENH 210</td>
<td>Modes of Fiction</td>
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<tr>
<td>ENH 211</td>
<td>Modes of Poetry</td>
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<tr>
<td>ENH 212</td>
<td>Modes of Drama</td>
</tr>
<tr>
<td>ENH 213</td>
<td>Nonfiction</td>
</tr>
<tr>
<td>ENH 214</td>
<td>Trends in Literature and Film</td>
</tr>
<tr>
<td>ENH 215</td>
<td>Literature and Humanities</td>
</tr>
<tr>
<td>ENH 216</td>
<td>The Bible and Later Literature</td>
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<tr>
<td>ENH 217</td>
<td>Introduction to Shakespeare</td>
</tr>
<tr>
<td>ENH 221*</td>
<td>African American Literature</td>
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<tr>
<td>ENH 222*</td>
<td>Women and Literature</td>
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<tr>
<td>ENH 223*</td>
<td>Mythology of Women</td>
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<tr>
<td>ENH 224*</td>
<td>U.S. Literature: Multicultural Perspectives</td>
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<tr>
<td>ENH 230</td>
<td>Introduction to Language</td>
</tr>
<tr>
<td>LNG 266*</td>
<td>Women in European Literature to the Renaissance</td>
</tr>
<tr>
<td>LNG 267*</td>
<td>Women in European Literature after the Renaissance</td>
</tr>
<tr>
<td>WMS 222*</td>
<td>Women and Literature</td>
</tr>
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<td>WMS 263*</td>
<td>Mythology of Women</td>
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<tr>
<td>WMS 266*</td>
<td>Women in European Literature to the Renaissance</td>
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<tr>
<td>WMS 267*</td>
<td>Women in European Literature after the Renaissance</td>
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<td>WMS 222*</td>
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<td>WMS 263*</td>
<td>Mythology of Women</td>
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<td>WMS 266*</td>
<td>Women in European Literature to the Renaissance</td>
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<tr>
<td>WMS 267*</td>
<td>Women in European Literature after the Renaissance</td>
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</tbody>
</table>

Any 300- or 400-level course in foreign literature (FRN, ITL, SPN) 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.

Arts and Communications: Courses are identified as (arts & com.) at the end of the course descriptions:

100-level courses

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>AMS 150</td>
<td>Dance History: 20th-Century Survey</td>
</tr>
<tr>
<td>ART 100</td>
<td>Introduction to the Visual Arts</td>
</tr>
<tr>
<td>ART 120</td>
<td>Introductory Drawing</td>
</tr>
<tr>
<td>ART 130</td>
<td>Introductory Painting</td>
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<tr>
<td>ART 150</td>
<td>Introductory Sculpture</td>
</tr>
<tr>
<td>CIN 100</td>
<td>Introduction to Film</td>
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<tr>
<td>CIN 111</td>
<td>Basic Video Production</td>
</tr>
<tr>
<td>COM 100</td>
<td>Introduction to Media</td>
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</tbody>
</table>

Any 300- or 400-level course in foreign language (FRN, ITL, SPN) 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.
DEGREE REQUIREMENTS

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. Courses may be 200-, 300-, or 400-level. Prerequisite: a minimum of ENG 111.

One course at the 200 level or above, which subscribes to the principle of writing across the curriculum, to be selected either from those courses marked with an asterisk on the lists for Social Scientific Analysis; The West and the World; Textual, Aesthetic, and Linguistic Analysis; or from among those listed under Pluralism and Diversity. These courses deal significantly with pluralism and diversity. They may be selected so as to fulfill one of the other requirements as well. Courses satisfying this requirement are marked (p&d) at the end of the course descriptions.

### Pluralism and Diversity Courses

One course to be selected either from those marked with an asterisk (*) in the lists above or from among the following. These courses can be selected so as to fulfill one of the other requirements as well. Courses are identified (p&d) at the end of the course descriptions:

- **AFA 211** American Culture in Black and White
- **AFA 247** Peoples and Cultures of Africa
- **AFA 253** African Politics
- **AFA 323** The Black Writer in the Modern World
- **AFA 361** The Heritage of Marcus Garvey and W.E.B. DuBois
- **AMS 211** American Culture in Black and White
- **AMS 236** Music in American Life
- **AMS 237** American Musical Theater
- **AMS 241** Popular Culture and Mass Society
- **ANT 225** Multicultural Literacy
- **ANT 200** History of Art to the Renaissance
- **ANT 201** History of Art after the Renaissance
- **ANT 203** Art of the Ancient World
- **ANT 207** 19th-Century Art
- **ANT 208** 20th-Century Art
- **ART 209** Art and Society in America
- **ART 210** The Architect and Society
- **CIN 204** Politics and Film
- **MUS 108** Introduction to Jazz History
- **MUS 110** Introduction to Music History
- **MUS 120** Rudiments of Music
- **MUS 215** Modes of Drama
- **MUS 260** History of Theater I
- **MUS 261** History of Theater II
- **MUS 212** History of Music from 1730
- **MUS 236** Music in American Life
- **MUS 237** American Musical Theater
- **MUS 239** History of Jazz
- **POL 219** Politics and Film
- **ENG 384** Major Woman Author I
- **ENG 385** Major Woman Author II
- **ENG 386** Major Woman Author III
- **ENG 390** Studies in Women in Literature and the Arts
- **ENG 391** Woman as Hero
- **ENG 392** The Black Writer in the Modern World
- **ENG 395** Mythic Concepts and Archetypes in Literature
- **ENG 396** Studies in Global Literature I
- **ENG 397** Studies in Global Literature II
- **ENG 398** Cultural Variety in the Literature of the United States
- **HST 238** World Civilization I
- **HST 239** World Civilization II
- **HST 251** History of the U.S. City
- **HST 266** Peoples and Cultures of Africa
- **HST 361** The Heritage of Marcus Garvey and W.E.B. DuBois
Demonstration of proficiency through the intermediate level, 213. Students may complete this requirement by achieving a passing grade on the proficiency examination (see below); or by taking three or fewer four-credit courses through level 213, depending on the results of their placement examination.

The Department of Modern Languages offers proficiency examinations in French, Italian, and Spanish. Students continuing with a language taken in high school are required to take the proficiency examination administered through the Modern Languages Media Center, 2S-114.

Other students may take the proficiency examination to receive exemption from the language requirement or to be placed at an appropriate level to fulfill the requirement. Students wishing to demonstrate proficiency at the 213-level in a language for which CSI does not administer an exam may take exams elsewhere. In all cases, students who pass a proficiency exam at the 213-level will receive an exemption only. No credit will be granted.

Students possessing a foreign high school degree from a non-English speaking country will receive an automatic exemption from the foreign language requirement, although they will receive no credit toward their degree. (Not required for BS degree program in Information Systems.)

### Foreign Language Courses

Demonstration of proficiency is required through the intermediate level, 213. Courses are identified (foreign lang.) at the end of the course descriptions.

<table>
<thead>
<tr>
<th>Foreign Language</th>
<th>AA and BA</th>
<th>0 - 12 credits</th>
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<tbody>
<tr>
<td>HST 386</td>
<td>The Recovery of Women’s Past</td>
<td>SOC 340</td>
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<tr>
<td>HST 389</td>
<td>Themes in American Women’s History</td>
<td>SOC 350</td>
</tr>
<tr>
<td>LNG 396</td>
<td>Studies in Global Literature I</td>
<td>SOC 371</td>
</tr>
<tr>
<td>LNG 397</td>
<td>Studies in Global Literature II</td>
<td>SPN 325</td>
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<tr>
<td>PHL 344</td>
<td>Eastern Philosophy</td>
<td>SPN 330</td>
</tr>
<tr>
<td>POL 253</td>
<td>African Politics</td>
<td>SPN 350</td>
</tr>
<tr>
<td>POL 338</td>
<td>Civil Rights and Liberties</td>
<td>SPN 480</td>
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<tr>
<td>POL 342</td>
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<td>PSY 213</td>
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<td>SOC 330</td>
<td>Women and Work</td>
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## 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:

1. Associate in Arts (AA) and Bachelor of Arts (BA), three-quarters of the credits shall be in the liberal arts and sciences;
2. Associate in Science (AS) and Bachelor of Science (BS), one-half of the credits shall be in the liberal arts and sciences;
3. Associate in Applied Science (AAS), one-third of the credits shall be in the liberal arts and sciences.

CSI courses are classified as follows:

### Liberal Arts and Sciences Courses

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<td>AMS</td>
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<td>ANT</td>
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<tr>
<td>ART</td>
<td>Art History (ART 100, 103, 104, 105, 203, 207, 208, 209, 210, 300, 301, 303, 304, 308, 440, 441)</td>
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<td>BIO</td>
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<td>CHM</td>
<td>Chemistry</td>
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<td>CHN</td>
<td>Chinese</td>
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<tr>
<td>CIN</td>
<td>Cinema Studies (CIN 100, 210, 220, 301, 308, 301, 302, 303, 304, 401, 402, 403, 404, 405, 406, 407, 408)</td>
</tr>
<tr>
<td>COM</td>
<td>Communications (COM 100, 101, 102, 103, 201, 203, 211, 214, 220, 225, 230, 241, 277, 312, 370, 371, 374, 400, 412, 438, 445, 465, 475, 480, 490)</td>
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<tr>
<td>COR</td>
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<tr>
<td>DAN</td>
<td>Dance (only DAN 150)</td>
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<tr>
<td>DRA</td>
<td>Dramatic Arts (DRA 100, 101, 260, 261, all DRA/ENH, DRA/ENG, DRA/ENH, DRA/ENL, DRA/FRN, and DRA/SPN courses)</td>
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<td>ENL</td>
<td>English</td>
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<td>ENS</td>
<td>Engineering Science (ENS 250, 309, 310, 316, 350, 356, 383, 384, 450)</td>
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<tr>
<td>FNC/ECO</td>
<td>Finance/Economics (FNC/ECO 213, 214, 240, 315, 345, 360, and 370)</td>
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<td>MGT/ECD</td>
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<tr>
<td>MUS</td>
<td>Music (MUS 108, 110, 120, 211, 212, 223, 224, 225, 226, 237, 241, 242, 243, 244, 258, 322, 362, 363, 360, 420, 422, 424, 430, 440, 441, 450, 460, 470)</td>
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<tr>
<td>PHL</td>
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<td>PHY</td>
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<td>POL</td>
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<td>SCI</td>
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<td>Science, Letters, and Society</td>
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### Non-Liberal Arts and Sciences Courses

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<td>DAN</td>
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<td>EDE</td>
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<td>EDS</td>
<td>Secondary Education (except EDS 200, 201, 202)</td>
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<td>ELT</td>
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<td>MGT</td>
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<td>SWK</td>
<td>Social Work</td>
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Internships and field study courses are non-liberal arts and sciences.
ACCOUNTING
(Bachelor of Science, Minor)
Department of Business
Chair, Professor Laura Nowak, Business Building (3N), Room 219
The program offers preparation for careers in finance and accounting and meets the New York State education requirements for sitting for the CPA examination. A minimum GPA of 2.5 is required for admission to and continuation in the Accounting major and for graduation. A 2.5 GPA is not a requirement for students to enroll in the AAS program, for students pursuing an Accounting minor, or for students enrolling in individual courses.

Accounting (BS)

General Education Requirements for the BS
ENG 111, ENG 151, COR 100, PED 190: 12 credits
Whenever possible, these four courses should be completed within the first 36 credits.

Scientific Analysis; Social Scientific Analysis; The Contemporary World; Textual, Aesthetic, and Linguistic Analysis; Pluralism and Diversity requirements: 21-27 credits
Whenever possible, these courses should be completed within the first 60 credits.

1. Scientific Analysis: (11 credits)
   a. Science and Technology: (8 credits)
   b. Mathematics: (3 credits)
      Chosen from: MTH 121, MTH 123, MTH 130, MTH 230, MTH 231, MTH 235

2. Social Scientific Analysis: (3-4 credits)
   ECO 101 Introduction to Economics required

3. The Contemporary World: (4 credits)

4. Textual, Aesthetic, and Linguistic Analysis: (3-4 credits)
   a. Literature: 200-level
   b. Arts and Communications: 100-level
   c. Arts and Communications: 200-level

5. Pluralism and Diversity Requirement: (0-4 credits)
See section on general education requirements for approved course lists and complete details.

Pre-Major Requirements: 35-38 credits

Business Courses
MGT 110 Organizational Theory and Management 3 credits
MKT 111 Marketing 3 credits
FNC/ ECO 240 Managerial Finance I 3 credits

Economics Courses
ECO 210 Price Theory 4 credits
ECO 212 Income and Employment Theory 4 credits

Quantitative and Computer Courses
ACC 114 Introduction to Accounting I 4 credits
ACC 121 Introduction to Accounting II 4 credits
BUS 150 Essential Software Tools for Business 3 credits

CSC 102 Computing for Today 4 credits
or
CSC 126 Introduction to Computer Science 4 credits
MGT/ ECO 230 Introduction to Economic and Managerial Statistics 4 credits

One mathematics course following the course taken to fulfill the Mathematics general education requirement chosen from:
MTH 130 Pre-Calculus Mathematics
MTH 221 Applied Finite Mathematics and Business Calculus
MTH 223 Technical Calculus
MTH 230 Calculus I with Pre-Calculus
MTH 231 Analytic Geometry and Calculus I
MTH 232 Analytic Geometry and Calculus II
MTH 236 Accelerated Calculus II 3-5 credits

Major Requirements: 40 credits

A. Accounting 40 credits
   ACC 215 Intermediate Accounting I 4 credits
   ACC 225 Intermediate Accounting II 4 credits
   ACC 241 Federal Income Taxation I 3 credits
   ACC 310 Cost Accounting I 3 credits
   BUS 160 Business Law I 3 credits
   BUS 260 Business Law II 3 credits
   FNC/ ECO 345 Managerial Finance II 4 credits
   Plus 16 additional credits in related subjects chosen with the written approval of the student’s adviser.

B. Certified Public Accountancy
   Accounting majors who wish to apply for admission to the State examination for public accountancy must complete all courses specified under the accounting concentration and must include the following among the 16 credits of related subjects:
   ACC 414 Advanced Accounting 4 credits
   ACC 422 Standards and Procedures of Financial Audits 4 credits

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

Electives: 3-12 credits

Total Credits Required: 120

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.

Minor
At least 18 credits of courses including:
ACC 114 Introduction to Accounting I 4 credits
ACC 121 Introduction to Accounting II 4 credits
ACC 215 Intermediate Accounting I 4 credits
Two courses in accounting at the 200 or 300 level 6 credits
Courses

ACC 114 Introduction to Accounting I
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 successful completion of C/ACT Writing Skills Test, and C/ACT Reading Sample Test or the equivalent.

ACC 121 Introduction to Accounting II
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
Pre- or corequisite: BUS 150 or CSC 102 or CSC 126

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
Thorough 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.
Prerequisites: 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 then 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, CSC 102, or CSC 108/116/118, or CSC 126

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.
Prerequisite: ACC 225

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 of 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 AMERICAN STUDIES

(Bachelor of Arts, Minor)
Interdisciplinary Program
Coordinator: Professor Calvin Holder, History/Political Science, Economics, and Philosophy Building (2N), Room 210
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 AMERICAN STUDIES (BA)
General Education Requirements for the BA
ENG 111, ENG 151, COR 100, PED 190: 12 credits
Whenever possible, these four courses should be completed within the first 36 credits.

Scientific Analysis; Social Scientific Analysis; The Contemporary World; Textual, Aesthetic, and Linguistic Analysis; Pluralism and Diversity requirements: 28-47 credits
Whenever possible, these courses should be completed within the first 60 credits.

1. Scientific Analysis: (11 credits)
   a. Science and Technology: (8 credits)
   b. Mathematics: (3 credits)
2. Social Scientific Analysis: (7-8 credits)
3. The Contemporary World: (4 credits)
4. Textual, Aesthetic, and Linguistic Analysis: (6-8 credits)
   a. Literature: 200-level
   b. Arts and Communications: 100-level
      Arts and Communications: 200-level
5. Pluralism and Diversity Requirement: (0-4 credits)
6. Foreign Language: (0-12 credits)
See section on general education requirements for approved course lists and complete details.

Major Requirements: 31 credits
Students majoring in African American Studies must complete:
1. AFA/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: AFA 247, 253, 260
   - Caribbean: AFA 223, 225, 265
   - United States: AFA 202, 204, 221, 229, 262, 263, 267, 269, 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

Electives: 30 - 52 credits
Total Credits Required: 120

Minor
Sixteen credits at the 200 level or above including one course on each of the following: Africa, the Caribbean, the United States.

Courses
AFA 122  Black Dance Workshop
(Also DAN 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.

AFA 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)

AFA 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.

AFA 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 potentialities of ethnic dance for attaining freedom of movement.

AFA 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.
AF 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.

AF 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.
Prerequisites: ENG 111, COR 100

AF 223 Comparative Black Literature
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.
Prerequisites: ENG 111, ENG 151

AF 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)
Prerequisite: ENG 111

AF 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. (p&d)
Prerequisites: ENG 111, plus any college-level history course or COR 100

AF 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 socio-political 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. (p&d)

AF 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. (p&d)
Prerequisites: ENG 111, and COR 100 or any college-level history course

AF 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)
Prerequisites: ENG 111, and COR 100 or any college-level history course

AF 263 African American History: 1865 to the Present
(Also HST 265)
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 nationalist and other political organizations. (social science) (p&d)
Prerequisites: ENG 111, and COR 100 or any college-level history course

AF 265 History of the Caribbean
(Also HST 265)
4 hours; 4 credits
Presidential 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)
Prerequisites: ENG 111, and COR 100 or any college-level history course

AF 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.

AF 269 Blacks in Urban America: 1900-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)
Prerequisites: ENG 111, and COR 100, or any college-level history course
AFA 323  The Black Writer in the Modern World  
(Also ENL 392)  
4 hours; 4 credits  
An intensive study of various recent and contemporary Black authors, writing in all the literary genres, and their grappling with traditional and changing environments. (p&d)  
Prerequisite: An ENH 200-level course

AFA 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. (p&d)  
Prerequisites: Any 200-level history course and ENG 151

AMERICAN SIGN LANGUAGE COURSES  
Department of Modern Languages  
Chair: Professor Kathryn Talarico, English, Speech, and World Literature/Modern Languages Building (2S), Room 109

ASL 113  American Sign Language I  
4 class hours, 2 laboratory hours; 5 credits  
An introduction to the fundamentals of American Sign Language (ASL) with particular attention to the grammar of the language and the culture of American deaf persons. Two additional language laboratory hours per week are required. (foreign lang.)  
Prerequisite: Passing the CUNY/ACT Reading and Writing tests

ASL 114  American Sign Language II  
4 class hours, 2 laboratory hours; 5 credits  
A continuation of American Sign Language I emphasizing vocabulary development and increased fluency in the language’s structure; regional and stylistic variations in ASL. Advanced work in deaf culture, folklore, and literature. Two additional language laboratory hours per week are required. (foreign lang.)  
Prerequisite: Passing the CUNY/ACT Reading and Writing tests and successful completion of ASL 113 or equivalent

ASL 213  American Sign Language III  
4 class hours, 2 laboratory hours; 5 credits  
A continuation of American Sign Language II emphasizing stylistic variations; a command of the various registers available in the language; and expanded use of classifiers. Advanced work in deaf culture, folklore, and literature. Two additional language laboratory hours per week are required. (foreign lang.)  
Prerequisite: Successful completion of ASL 114 or equivalent

ASL 215  American Sign Language IV  
4 class hours, 2 laboratory hours; 5 credits  
A continuation of American Sign Language III preparing students to enter interpreter education programs. An analysis of the discourse of native signers emphasizing language variation as it correlates with varying life experiences of deaf people. Two additional language laboratory hours per week are required. (foreign lang.)  
Prerequisite: Successful completion of ASL 213 or equivalent

AMERICAN STUDIES  
(Bachelor of Arts, Minor)  
Interdisciplinary Program  
Coordinator: Assistant Professor Catherine Lavender, History/Political Science, Economics, and Philosophy Building (2N), Room 203  
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)  
General Education Requirements for the BA  
ENG 111, ENG 151, COR 100, PED 190: 12 credits  
Whenever possible, these four courses should be completed within the first 36 credits.

Scientific Analysis; Social Scientific Analysis; The Contemporary World; Textual, Aesthetic, and Linguistic Analysis; Pluralism and Diversity requirements: 28–47 credits  
Whenever possible, these courses should be completed within the first 60 credits.

1. Scientific Analysis: (11 credits)  
a. Science and Technology: (8 credits)  
b. Mathematics: (3 credits)

2. Social Scientific Analysis: (7-8 credits)

3. The Contemporary World: (4 credits)

4. Textual, Aesthetic, and Linguistic Analysis: (6-8 credits)  
a. Literature: 200-level  
b. Arts and Communications: 100-level  
   Arts and Communications: 200-level  

5. Pluralism and Diversity Requirement: (0-4 credits)

6. Foreign Language: (0-12 credits)  
See section on general education requirements for approved course lists and complete details.

Pre-Major Requirements: 3 credits  
AMS 101  America: An Introduction  

Major Requirements: 32 credits  
American literature (8 credits):  
ENH 203  Literary History of the United States to 1855  
ENH 204  Literary History of the United States since 1855  

American history (8 credits):  
HST 244  United States History: 1607-1865  
HST 245  United States History: 1865-present  

American Studies (16 credits):  
16 credits beyond AMS 101, including at least two courses at the 300 level or above.
Electives: 26 - 48 credits
Total Credits Required: 120

Minor
AMS 101 America: An Introduction 3 credits
American literature (8 credits):
ENH 203 Literary History of the United States to 1855 4 credits
ENH 204 Literary History of the United States since 1855 4 credits
American history (8 credits):
HST 244 United States History: 1607-1865 4 credits
HST 245 United States History: 1865-present 4 credits
American Studies (4 credits)

Courses

AMS 101 America: An Introduction
3 hours; 3 credits
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)

AMS 150 Dance History: Twentieth-Century Survey
(Also DAN 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 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.)

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.)
Prerequisites: ENG 111; and ART 100 or ART 200 or ART 201 or AMS 101

AMS 210 American Philosophy
(Also PHIL 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 AFA 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. (social science) (p&d)
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, and Beattie; Harrington, Friedan, and Galbraith. (social science)
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)
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, what have they done with it. Emphasis is placed on the contrasting threads of regional variation and national homogenization. (social science)
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 American dream but also disillusionment with it as expressed by such writers as Franklin, Tocqueville, Emerson, Whitman, Henry Adams, and Norman Mailer. (social science)
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)
Prerequisites: ENG 111, COR 100
AMS 241 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)
Prerequisites: ENG 111, COR 100

AMS 230 American Film and American Myth
(Also GIN 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.)
Prerequisite: ENG 111

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 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)
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.)
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.)
Prerequisites: ENG 111; for Music majors, MUS 120 or permission of the instructor

AMS 239 The American Civil War
(Also POL 239)
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, Ellul, McLuhan, Nye, and Browne. (arts & com.)
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)
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)
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.)
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 on American society. For History majors and minors, this is designated as a United States history course. (social science)
Prerequisites: ENG 111, COR 100 or any college-level history course

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/AMS 209 or AMS 212 or ART 307 or permission of the instructor
ANTHROPOLOGY COURSES

(See Sociology-Anthropology for Bachelor of Arts degree.)

Department of Sociology, Anthropology, and Social Work  
Chair: Professor Jacqueline LeBlanc, Psychology/Sociology, Anthropology,  
and Social Work Building (4S), Room 223

Courses

**ANT 100 Introduction to Anthropology**  
3 hours; 3 credits  
An overview of human physical and social evolution, and the range of diversity in contemporary human societies. The development of language and communication; tribal and peasant societies in the modern world; ethnicity, race and gender, migration and urbanization. (social science)

**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 either ANT 100 or SOC 100

**ANT 202 Physical Anthropology**  
4 hours; 4 credits  
The evolution of non-human primates and human populations, with special focus on physical variation and its sources among contemporary human groups. The emergence of human forms of social organization and symbolic communication.  
(social science)  
Prerequisites: ENG 111, COR 100, and either ANT 100 or SOC 100

**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. (p&d)  
Prerequisites: ENG 111, COR 100, and either ANT 100 or SOC 100

**ANT 225 Multicultural Literacy**  
(Also COM 225)  
4 hours; 4 credits  
This course will explore the nature of culture as it is defined by various disciplines and affected by class, race, gender, and ethnicity. Readings will include texts in anthropology, sociology, literary theory, media studies, and women's studies. (social science) (p&d) (arts & com.)  
Prerequisites: ENG 151, COR 100, and either ANT 100, COM 100, HST 100, POL 100, SOC 100, or WMS 100

**ANT 331 Women and Work**  
(Also SOC 330, WMS 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. (p&d)  
Prerequisites: Any 100-level sociology or anthropology course and any 200-level sociology or anthropology course or permission of the instructor

**ANT 345 Early Civilizations**  
4 hours; 4 credits  
Case studies in the rise of civilization, in light of anthropological theory, using examples from Mesopotamia, Egypt, India, China, and Central and South America. The social and cultural changes associated with the rise of cities and empires, slavery, the emergence of writing and monumental architecture.  
Prerequisites: ANT or SOC 100 and any of the following: ANT 201, SOC 200, SLS 240, or permission of the instructor

**ANT 350 Foraging Societies**  
4 hours; 4 credits  
Studies of small bands of hunters and gatherers in which basic human biological evolution and cultural development have taken place over three million years. Their social organization, gender and family relations, the tensions and alliances of gift-based economies, religions without leaders, and politics without chiefs. The contemporary situation of such societies. (p&d)  
Prerequisites: ANT or SOC 100 and ANT 201 or permission of the instructor

**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: Any 100-level sociology or anthropology course and any 200-level sociology or anthropology course or permission of the instructor

**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: Any 100-level sociology or anthropology course and any 200-level sociology or anthropology course or permission of the instructor
ANT 390  Human Evolution
4 hours; 4 credits
The evolution of Homo sapiens. Close reference to the actual fossil record and archaeological sites as grounds for inferences that can be drawn concerning the social life of prehistoric peoples and the development of language and culture.
Prerequisites: ANT 202 or BIO 108 or BIO 180, or permission of the instructor

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: Any 100-level sociology or anthropology course and any 200-level sociology or anthropology course or permission of the instructor.

ANT 460  Personality and Culture
4 hours; 4 credits
Examination of the different ways of understanding “human nature” in specific social contexts. Topics will include the development of anthropological theories of personality and culture, and Western and non-Western concepts of personhood and mental health. (p&d)
Prerequisites: ANT 201 and any of the following: PSY 212, PSY 226, PSY 236, PSY 242, SOC 200, SOC 201, SOC 226, SOC 292, or permission of the instructor.

ARCHITECTURAL STUDIES*
Department of Performing and Creative Arts
Program Coordinator: Associate Professor Frank Galati, Engineering Technologies Building (5N), Room 213
The Associate in Science degree program in Architectural Studies provides a fundamental and broad educational background as preparation for continuation of study toward the BS degree in Architecture. The curriculum provides seamless articulation with the BS degree program in Architecture at the City College of New York. It offers as well, preparation for entry-level work as an architect assistant.
*This program is under review and may not be offered.

Architectural Studies (AS)
Retention standards:
Students must maintain a minimum GPA of 2.5 upon completion of 32 credits, which include the following courses: ARC 111, ARC 200, ENG 111, MTH 123.

General Education Requirements for the AS
ENG 111, ENG 151, PED 190: 8 credits
Whenever possible these three courses should be completed within the first 36 credits.
1. Scientific Analysis
   a. Science and Technology (4 credits)
      PHY 110  College Physics I
      PHY 111  College Physics Laboratory I
      or
      PHY 116  Physics I
   b. Mathematics (4 credits)
      MTH 123*  College Algebra and Trigonometry
   2. Social Scientific Analysis (3 credits)
      PHL 101  Introduction to Philosophy
   3. Textual, Aesthetic, and Linguistic Analysis (2 credits)
      ART 120  Introductory Drawing
   4. Pluralism and Diversity (8 credits)
      HST 238  World Civilization I
      HST 239  World Civilization II

Core Requirements: 31 credits
ARC 111  Architectural Graphics Workshop  2 credits
ENS 110  Engineering Graphics  2 credits
ELT 101  Introduction to Measurement and Instrumentation  2 credits
ARC 112  The Built Environment of New York City  2 credits
ARC 200  Environmental Concepts I  4 credits
ARC 212  History, Theory, and Technology of the Built Environment  2 credits
ARC 300  Environmental Concepts II  4 credits
ARC 400  Environmental Concepts II  4 credits
CET 230  Statics  2 credits
CET 360  Strength of Materials  3 credits
MTH 223*  Technical Calculus  4 credits

Guided Electives:
SLS 301  Humanities: Ancient Culture  4 credits
SLS 302  Humanities II: Medieval/Early Modern Culture  4 credits

Total Credits Required:  68
All courses designated ARC, ENT, CET are non-liberal arts and sciences.

Courses
ARC 111  Architectural Graphics Workshop  4 hours; 2 credits
Students will be introduced to and will learn to use fundamental verbal and graphic skills necessary for recording and transmitting ideas about architecture and the urban environment. Short exercises using verbal and graphic techniques learned in the workshop will introduce the student to basic concepts in design and presentation. The student will develop skills in diagramming, sketching, drafting, and perspective drawing, and will make models for interpreting such conceptual images as activity patterns, circulation systems, and built form.

ARC 112  The Built Environment of New York City  2 hours; 2 credits
Exploring the conditions and factors that have led to the development of New York City and its world renowned architecture and open spaces. Field trips, papers, and investigation of the creation of New York City.
ARC 200  Environmental Concepts I
8 hours; 4 credits
The course will focus on the analysis, description, and design of the student’s personal physical surroundings such as room, house, and school. Students will develop communication skills such as architectural drawing, sketching, diagramming, model making, and photography and will analyze and discuss environmental design problems. The student will become familiar with problem solving methods and a variety of design concepts and will propose design solutions. The presentation of these ideas will be verbal as well as graphic, using techniques learned in class.
Prerequisite: ARC 111
Pre or corequisite: ENG 111 and MTH 123

ARC 212  History, Theory, and Technology of the Built Environment
2 hours; 2 credits
Survey of architecture, building traditions, and technologies from the Medieval Period through the Renaissance culminating in the 20th century with the development of modern architecture.
Prerequisite: ENG 111 or permission of the instructors

ARC 300  Environmental Concepts II
8 hours; 4 credits
Students will analyze, describe, and design the physical settings of family and small group activities, such as an office, an apartment, a daycare center, and related open spaces and landscaping. They will learn to develop written and diagrammatic programs of user requirements and space needs for the activities in such settings. Physical design solutions meeting the criteria developed will be proposed and presented. Such presentations will make use of both previously developed communication skills and additional skills including the use of presentation models. Problem solving methods and technology used for buildings, open space, and landscape will be further developed.
Prerequisite: ARC 200, ENG 111, and MTH 123

ARC 400  Environmental Concepts III
8 hours; 4 credits
Students will analyze, describe, and design the physical settings for neighborhood and city-wide activities such as community facilities and transportation networks. Problem identification and the development and presentation of physical design solutions for buildings; open space, landscape, and urban design aspects of these problems will be studied.
Prerequisite: ARC 300

Scientific Analysis; Social Scientific Analysis; The Contemporary World; Textual, Aesthetic, and Linguistic Analysis; Pluralism and Diversity requirements: 28-47 credits
Whenever possible, these courses should be completed within the first 60 credits.
1. Scientific Analysis: (11 credits)
   a. Science and Technology: (8 credits)
   b. Mathematics: (3 credits)
2. Social Scientific Analysis: (7-8 credits)
3. The Contemporary World: (4 credits)
4. Textual, Aesthetic, and Linguistic Analysis: (6-8 credits)
   a. Literature: 200-level
   b. Arts and Communications: 100-level
   Arts and Communications: 200-level
5. Pluralism and Diversity Requirement: (0-4 credits)
6. Foreign Language: (0-12 credits)
See section on general education requirements for approved course lists and complete details.

Art (BA)
Pre-Major Requirements: 14 credits
Students planning to major in Art must complete the following pre-major courses, some of which may also satisfy general education requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>ART 200</td>
<td>4</td>
<td>History of Art to the Renaissance</td>
</tr>
<tr>
<td>ART 201</td>
<td>4</td>
<td>History of Art since the Renaissance</td>
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<tr>
<td>ART 120</td>
<td>2</td>
<td>Introductory Drawing</td>
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<td>ART 130</td>
<td>2</td>
<td>Introductory Painting</td>
</tr>
<tr>
<td>ART 150</td>
<td>2</td>
<td>Introductory Sculpture</td>
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</tbody>
</table>

Major Requirements: 34 credits
At least four credits of art history courses at the 300 level and four credits of art history courses at the 400 level:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>ART 300</td>
<td>4</td>
<td>Medieval and Renaissance</td>
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<td>ART 301</td>
<td>4</td>
<td>Baroque Art</td>
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<td>ART 303</td>
<td>3</td>
<td>History of Photography</td>
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<td>ART 305</td>
<td>2</td>
<td>Museum and Gallery Training</td>
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<td>ART 306</td>
<td>2</td>
<td>Nineteenth-Century Art</td>
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<td>ART 307</td>
<td>2</td>
<td>Twentieth-Century Art</td>
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<tr>
<td>ART 308</td>
<td>2</td>
<td>American Art since 1945</td>
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<tr>
<td>ART 410</td>
<td>4</td>
<td>Major Artist I</td>
</tr>
<tr>
<td>ART 411</td>
<td>4</td>
<td>Major Artist II</td>
</tr>
<tr>
<td>ART 440</td>
<td>2</td>
<td>Contemporary Art Theory I</td>
</tr>
<tr>
<td>ART 441</td>
<td>2</td>
<td>Contemporary Art Theory II</td>
</tr>
</tbody>
</table>

At least six credits of studio art courses beyond the 100 level:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>ART 220</td>
<td></td>
<td>Intermediate Drawing</td>
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<td>ART 225</td>
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<td>Portrait Drawing II</td>
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<tr>
<td>ART 230</td>
<td></td>
<td>Intermediate Painting</td>
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<tr>
<td>ART 245</td>
<td></td>
<td>Printmaking</td>
</tr>
<tr>
<td>ART 250</td>
<td></td>
<td>Intermediate Sculpture</td>
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<tr>
<td>ART 275</td>
<td></td>
<td>Studio Art Theory and Practice</td>
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<tr>
<td>ART 320</td>
<td></td>
<td>Advanced Drawing</td>
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<tr>
<td>ART 325</td>
<td></td>
<td>Portrait Drawing III</td>
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<tr>
<td>ART 330</td>
<td></td>
<td>Advanced Painting</td>
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<tr>
<td>ART 345</td>
<td></td>
<td>Intermediate Printmaking</td>
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</tbody>
</table>

ART
(Bachelor of Arts, Bachelor of Science, Photography Concentration, Minor)
Department of Performing and Creative Arts
Chair: Associate Professor Sylvia Kahan, Center for the Arts (1P), Room 203
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.

Art (BA or BS)
General Education Requirements for the BA and BS
ENG 111, ENG 151, COR 100, PED 190: 12 credits
Whenever possible, these four courses should be completed within the first 36 credits.
ART 350  Advanced Sculpture
ART 375  Intermediate Studio Art Theory and Practice
ART 445  Advanced Printmaking
And an additional 20 credits from art history or studio art courses beyond the 100 level.

Electives: 13-34 credits
Total Credits Required: 120

Liberal Arts and Sciences Requirement
All studio art courses are non-liberal arts and sciences.

Art (BS)

Pre-Major Requirements: 14 credits
Students planning to major in Art must complete the following pre-major courses, some of which may also satisfy general education requirements:

- ART 200  History of Art to the Renaissance 4 credits
- ART 201  History of Art since the Renaissance 4 credits
- ART 120  Introductory Drawing 2 credits
- ART 130  Introductory Painting 2 credits
- ART 150  Introductory Sculpture 2 credits

Major Requirements: 34 credits
At least eight credits of art history courses beyond the 100 level:

- ART 203  Art of the Ancient World
- 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 306  Nineteenth-Century Art
- ART 307  Twentieth-Century Art
- ART 308  American Art since 1945
- ART 410  Major Artist I
- ART 411  Major Artist II
- ART 440  Contemporary Art Theory I
- ART 441  Contemporary Art Theory II

At least 26 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 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

Electives: 13 - 34 credits
Total Credits Required: 120

Liberal Arts and Sciences Requirement
All studio art courses are non-liberal arts and sciences.

Art (BA or BS) Photography Concentration
This concentration allows students interested in photography to receive the Bachelor’s degree in Art with a concentration in courses dealing with photographic technique, theory, and history.

General Education Requirements listed above for Art BA or BS

Pre-Major Requirements: 15 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 200  History of Art to the Renaissance 4 credits
- ART 201  History of Art since the Renaissance 4 credits
- PHO 120  Basic Photography 3 credits
- ART 212  Introductory Drawing
- ART 300  Medieval and Renaissance Art
- ART 301  Baroque Art
- ART 303  History of Photography
- ART 305  Museum and Gallery Training
- ART 306  Nineteenth-Century Art
- ART 307  Twentieth-Century Art
- ART 308  American Art since 1945
- ART 410  Major Artist I
- ART 411  Major Artist II
- ART 440  Contemporary Art Theory I
- ART 441  Contemporary Art Theory II

Major Requirements: 34 credits
At least eight credits of art history courses beyond the 100 level including:

- ART 303  History of Photography

The remaining course may be chosen from:

- ART 203  Art of the Ancient World
- 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 306  Nineteenth-Century Art
- ART 307  Twentieth-Century Art
- ART 308  American Art since 1945
- ART 410  Major Artist I
- ART 411  Major Artist II
- ART 440  Contemporary Art Theory I
- ART 441  Contemporary Art Theory II

At least nine credits of photography courses beyond the 100 level chosen from:

- PHO 220  Intermediate Photography
- PHO 230  Color Photography
- PHO 240  Photojournalism
- PHO 250  Studio Photography I
- PHO 320  The Photographic Portfolio
- PHO 360  Studio Photography II

including at least one course at the 300 or 400 level.

The remaining 17 credits may be chosen from courses in art and photography beyond the 100 level.

Electives: 12 - 33 credits
Total Credits Required: 120
Liberal Arts and Sciences Requirement
All studio art and photography courses are non-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 advisers. 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.

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

Path I: Art History
ART 200 History of Art to the Renaissance 4 credits
ART 201 History of Art since the Renaissance 4 credits
and
at least 10 credits of art history beyond the 100 level:
ART 203 Art of the Ancient World
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 306 Nineteenth-Century Art
ART 307 Twentieth-Century Art
ART 308 American Art since 1945
ART 410 Major Artist I
ART 411 Major Artist II
ART 440 Contemporary Art Theory I
ART 441 Contemporary Art Theory II

Path II: Studio Art
ART 120 Introductory Drawing 2 credits
ART 125 Portrait Drawing I
ART 130 Introductory Painting 2 credits
ART 150 Introductory Sculpture 2 credits
and
at least 12 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 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

Courses
(See Photography for photography course descriptions.)

ART 100 Introduction to the Visual Arts
3 hours; 3 credits
A selective examination of the materials and forms of painting, sculpture, architecture, and cinema 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.)

ART 106 Art in Rome
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; 2 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 but may be supplemented by group critiques. Students are familiarized with various drawing media, which may include charcoal, conte crayon, pastel, ink, and graphite. (arts & com.)

ART 125 Portrait Drawing I
4 hours; 2 credits
Basic study of the human head and facial expressions with particular attention to the problems of portraiture. For beginning students.

ART 130 Introductory Painting
4 hours; 2 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 but may be supplemented by group critiques. 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. Late-term gleanings can be re-applied to earlier efforts. 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.)

ART 150 Introductory Sculpture
4 hours; 2 credits
An examination of the relationship between two-dimensional design and three-dimensional structures. Ideas will be realized through work in a series of media. Flat simple drawings will be converted into digital images on the computer, these will be turned into oaktag models, and finally reproduced in metal. Students will be required to build a minimum of two finished steel sculptures and two color digital images. (arts & com.)
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.)
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.)
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.)
Prerequisites: ART 100 or 103 or 104 or permission of the instructor and ENG 111

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.)
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.)
Prerequisites: ENG 111, and ART 100 or 200 or 201 or permission of the instructor

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 activity in paintings, 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.
Prerequisite: ENG 111; and ART 100 or 200 or 201 or permission of the instructor

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.
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.
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.
Prerequisite: ART 130

ART 240  Women and the Fine Arts
(Also WMS 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 implication of this imagery. The circumstances of women artists from the Renaissance to the present will also be considered.
Prerequisites: ENG 111, and WMS 100 or ART 100 200 or 201 or the permission of the instructor

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.

ART 250  Intermediate Sculpture
4 hours; 3 credits
Further techniques in subtractive and additive sculpture through production of works in stone and/or wood.
Prerequisite: ART 150

ART 275  Studio Art Theory and Practice
4 hours; 3 credits
An attempt to differentiate and define the major stylistic developments in 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.
Prerequisite: ART 120

ART 300  Medieval and Renaissance 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 socioeconomic factors that affected such important questions as the role of patronage.
Prerequisites: ENG 111, and ART 100 or 200 or 201 or permission of the instructor

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 socioeconomic factors that affected such important questions as the role of patronage.
Prerequisites: ENG 111, and ART 100 or 200 or 201 or permission of the instructor
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 or permission of the instructor

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 adviser 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 or permission of the instructor

ART 306  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. Prerequisite: ENG 111; and ART 100 or 200 or 201 or permission of the instructor

ART 307  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. Prerequisite: ENG 111; and ART 100 or 200 or 201 or permission of the instructor

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/AMS 209 or AMS 212 or ART 307 or permission of the instructor

ART 309  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, or permission of the instructor

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.) Prerequisites: ENG 111, and ART 100 or 200 or 201 or permission of the instructor

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 the city of Rome. Prerequisites: Any 200- or 300-level studio art course and ART 100 or ART 201, or permission of the instructor

ART 312  Advanced Drawing
4 hours; 3 credits
Individual studio projects and advanced figure compositions in all drawing media. This course may be repeated for credit. Prerequisite: ART 220

ART 313  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. Prerequisite: ART 225

ART 314  Advanced Painting
4 hours; 3 credits
Individual studio projects with emphasis on development of personal direction. This course may be repeated for credit. Prerequisite: ART 230

ART 315  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 include two-dimensional space, color relationships, space relationships, and three-dimensional construction. Prerequisite: ART 340

ART 316  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.
Prerequisite: ART 245

ART 350 Advanced Sculpture
4 hours; 3 credits
A continuation of ART 250 based upon a project approved by both student and instructor. Students will have the opportunity to work with an arc welder and plasma cutter, and to work in heavier steel. This course may be repeated for credit.
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.
Prerequisite: ART 275

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.
Prerequisite: ENG 151; and ART 200 and ART 201 and a 300-level art history course or permission of the instructor.

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 effort 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 or permission of the instructor.

ART 440 Contemporary Art Theory I
4 hours; 4 credits
A seminar for advanced students in the arts. Part I will review the historical developments that led to the establishment of the New York School.
Prerequisite: Permission of the instructor.

ART 441 Contemporary Art Theory II
4 hours; 4 credits
The seminar will continue with an attempt to correlate individual student research on recent movements with the shifts in aesthetic theory from the 1930s to the present.
Prerequisite: ART 440 or permission of the instructor.

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.
Prerequisite: ART 375

ASTRONOMY COURSES
Department of Engineering Science and Physics
Program Coordinator and Director of the Astrophysical Observatory: Associate Professor Irving Robbins, Computer Science/Engineering Science and Physics Building (1N), Room 233
Astrophysical Observatory: A 16" f/10 Telescope housed in a fully equipped 16-foot domed building near the track. The observatory is station #294 for the Astronomical Union and tracks hazardous asteroids and comets.

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)
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, meteors, sunspots, lunar geography, and observation work. (science)
Corequisite: AST 101

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)
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)
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.

(sci)

Prerequisites: MTH 020 or an appropriate score on the CUNY Mathematics Assessment Test, AST 100 or AST 102 or permission of the instructor

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. (sci)

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. (sci)

Prequisite: AST 120
Corequisite: MTH 232

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.

Prequisite: AST 160

BIOCHEMISTRY
(Bachelor of Science, Minor)
Department of Biology
Chair: Professor Richard Veit, Biological/Chemical Sciences Building (6S), Room 143
Department of Chemistry
Chair: Associate Professor John Olsen, Biological/Chemical Sciences 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)
General Education Requirements for the BS
ENG 111, ENG 151, COR 100, PED 190: 12 credits
Whenever possible, these four courses should be completed within the first 36 credits.

Scientific Analysis; Social Scientific Analysis; The Contemporary World; Textual, Aesthetic, and Linguistic Analysis; Pluralism and Diversity requirements: 21-27 credits
Whenever possible, these courses should be completed within the first 60 credits.

1. Scientific Analysis: (11 credits)
   a. Science and Technology: (8 credits)
   b. Mathematics: (3 credits)

2. Social Scientific Analysis: (3-4 credits)
3. The Contemporary World: (4 credits)
4. Textual, Aesthetic, and Linguistic Analysis: (3-4 credits)
   a. Literature: 200-level
   b. Arts and Communications: 100-level
   c. Arts and Communications: 200-level
5. Pluralism and Diversity Requirement: (0-4 credits)
See section on general education requirements for approved course lists and complete details.

Pre-Major Requirements: 34 credits
Students planning to major in Biochemistry must complete the following 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.

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
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 3 credits
and
MTH 232  Analytic Geometry and Calculus II 3 credits
MTH 233  Analytic Geometry and Calculus III 3 credits
or
MTH 235  Accelerated Calculus I 6 credits
MTH 236  Accelerated Calculus II 6 credits

Major Requirements: 40 credits

CHM 250  Organic Chemistry I 4 credits
CHM 256  Organic Chemistry II 4 credits
CHM 240  Analytical Chemistry 4 credits
CHM 370  Biochemistry I 4 credits
CHM 376  Biochemistry II 4 credits
CHM 330  Physical Chemistry: Equilibria 4 credits
BIOLOGY

CHM 336 Physical Chemistry: Processes 4 credits
and
CHM 337 Experimental Methods in Physical Chemistry 4 credits
or
CHM 377 Biochemistry Laboratory 4 credits

Two biology electives chosen from:
- BIO 312 Genetics*
- BIO 322 Evolution
- BIO 332 Advanced Physiology*
- BIO 352 Cell Biology*
- BIO 428 Plant Physiology 8 credits

* BIO 205 is a prerequisite:

Electives: 7 - 24 credits
All biochemistry majors are encouraged to take Independent Study (CHM 591-4 or BIO 591-4) as an elective.

Total Credits Required: 120

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 1) 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 September 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.

Minor

Prerequisite Courses:
- CHM 141, 121, 142, 127 8 credits
- BIO 170, 171, 180, 181 8 credits

Requirements
- CHM 240 Analytical Chemistry 4 credits
- 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, Biology/Bioinformatics, Secondary Education Preparation, Master of Science - see Graduate Catalog for information on graduate programs

Department of Biology
Chair: Professor Richard Veit, Biological/Chemical Sciences Building (6S), Room 145

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, nursing, dentistry, medical technology, physician assistant, and physical therapy. The Department offers a varied and balanced program for biology and health profession majors, and three options in the BS degree program in Biology: biology major, biology/adolescence education, and bioinformatics.

Biology (BS)

General Education Requirements for the BS
ENG 111, ENG 151, COR 100, PED 190: 12 credits
Whenever possible, these four courses should be completed within the first 36 credits.

Scientific Analysis; Social Scientific Analysis; The Contemporary World; Textual, Aesthetic, and Linguistic Analysis; Pluralism and Diversity requirements: 21-27 credits
Whenever possible, these courses should be completed within the first 60 credits.

1. Scientific Analysis: (11 credits)
   a. Science and Technology: (8 credits)
   b. Mathematics: (3 credits)

2. Social Scientific Analysis: (3-4 credits)

3. The Contemporary World: (4 credits)

4. Textual, Aesthetic, and Linguistic Analysis: (3-4 credits)
   a. Literature: 200-level
   b. Arts and Communications: 100-level
   c. Arts and Communications: 200-level

5. Pluralism and Diversity Requirement: (0-4 credits)
See section on general education requirements for approved course lists and complete details.

Option I - Biology Major
Pre-Major Requirements: 15-19 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 three units:
   - 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

MTH 235 Accelerated Calculus I 5 credits

MTH 229 Calculus Computer Laboratory 1 credit

C. One of the following two courses:

MTH 214 Applied Statistics Using Computers 3 credits
BIO 272 Biometrics 4 credits

Major Requirements: 63 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.

A. Required courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BIO 205</td>
<td>General Physiology</td>
<td>4</td>
</tr>
<tr>
<td>BIO 312</td>
<td>Genetics</td>
<td>4</td>
</tr>
<tr>
<td>BIO 322</td>
<td>Evolution</td>
<td>4</td>
</tr>
<tr>
<td>BIO 352</td>
<td>Cell Biology</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>or</td>
<td></td>
</tr>
<tr>
<td>BIO 360</td>
<td>Ecology</td>
<td>4</td>
</tr>
</tbody>
</table>

B. One of the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 370</td>
<td>Biochemistry</td>
</tr>
<tr>
<td>BIO 372</td>
<td>Cell Biochemistry</td>
</tr>
<tr>
<td>BIO 213</td>
<td>Comparative Vertebrate Anatomy</td>
</tr>
<tr>
<td>BIO 215</td>
<td>Invertebrate Zoology and Paleontology</td>
</tr>
<tr>
<td>BIO 228</td>
<td>Botany</td>
</tr>
</tbody>
</table>

C. One advanced six-hour laboratory course from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 424</td>
<td>Molecular Biology and Biotechnology Laboratory</td>
</tr>
<tr>
<td>BIO 450</td>
<td>Experimental Methods in Animal Physiology</td>
</tr>
<tr>
<td>BIO 452</td>
<td>Experimental Methods in Behavioral Biology</td>
</tr>
<tr>
<td>BIO 454</td>
<td>Advanced Methods in Cell Biology</td>
</tr>
<tr>
<td>BIO 456</td>
<td>Experimental Methods in Ecology</td>
</tr>
<tr>
<td>BIO 458</td>
<td>Experimental Methods in Cell Biochemistry</td>
</tr>
<tr>
<td>BIO 460</td>
<td>Experimental Methods in Advanced Genetics</td>
</tr>
</tbody>
</table>

D. Four courses selected from the following: 12 credits

Courses not selected in groups A, B, or C and these additional courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 222</td>
<td>Field Biology</td>
</tr>
<tr>
<td>BIO 240</td>
<td>Biology of Disease</td>
</tr>
<tr>
<td>BIO 314</td>
<td>General Microbiology</td>
</tr>
<tr>
<td>BIO 318</td>
<td>Histology</td>
</tr>
<tr>
<td>BIO 324</td>
<td>Developmental Biology</td>
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<tr>
<td>BIO 325/</td>
<td></td>
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<tr>
<td>MDT 325</td>
<td>Diagnostic Molecular Biology</td>
</tr>
<tr>
<td>BIO 326</td>
<td>Introduction to Bioinformatics and Genomics</td>
</tr>
<tr>
<td>BIO 327</td>
<td>Molecular Biology</td>
</tr>
<tr>
<td>BIO 332</td>
<td>Advanced Physiology</td>
</tr>
<tr>
<td>BIO 338</td>
<td>Behavioral Biology</td>
</tr>
<tr>
<td>BIO 365</td>
<td>Principles of Neurobiology</td>
</tr>
<tr>
<td>BIO/</td>
<td></td>
</tr>
<tr>
<td>MTH 415</td>
<td>Mathematical Biology</td>
</tr>
<tr>
<td>BIO 420</td>
<td>Comparative Endocrinology</td>
</tr>
<tr>
<td>BIO 425</td>
<td>Computational Molecular Biology</td>
</tr>
<tr>
<td>BIO 428</td>
<td>Plant Physiology</td>
</tr>
<tr>
<td>BIO 434</td>
<td>Comparative Physiology</td>
</tr>
</tbody>
</table>

E. Required related science courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 116</td>
<td>Physics I</td>
</tr>
<tr>
<td>PHY 156</td>
<td>Physics II</td>
</tr>
<tr>
<td>PHY 120</td>
<td>General Physics I</td>
</tr>
<tr>
<td>PHY 121</td>
<td>General Physics I Laboratory</td>
</tr>
<tr>
<td>PHY 160</td>
<td>General Physics II</td>
</tr>
<tr>
<td>PHY 161</td>
<td>General Physics II Laboratory</td>
</tr>
<tr>
<td>CHM 141</td>
<td>General Chemistry I</td>
</tr>
<tr>
<td>CHM 121</td>
<td>General Chemistry I Lab</td>
</tr>
<tr>
<td>CHM 142</td>
<td>General Chemistry II</td>
</tr>
<tr>
<td>CHM 127</td>
<td>General Chemistry II Lab</td>
</tr>
<tr>
<td>CHM 250</td>
<td>Organic Chemistry I</td>
</tr>
<tr>
<td>CHM 256</td>
<td>Organic Chemistry II</td>
</tr>
</tbody>
</table>

Electives: 7 - 28 credits

Total Credits Required: 128

Option II - Biology/Adolescence Education, grades 7-12

In addition to completing the pre-major and major requirements in Option I above, students wishing to be recommended by the College for teacher certification must complete the following sequence of education courses for 24 credits:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDS 201</td>
<td>Social Foundations of Secondary Education</td>
</tr>
<tr>
<td>EDS 202</td>
<td>Psychological Foundations of Secondary Education</td>
</tr>
<tr>
<td>EDS 304</td>
<td>The Teaching of Secondary School Curriculum in Science</td>
</tr>
<tr>
<td>EDS 307</td>
<td>Discovery Learning and Interdisciplinary Instruction</td>
</tr>
<tr>
<td>EDS 400</td>
<td>Student Teaching in Secondary Education</td>
</tr>
<tr>
<td>EDS 401</td>
<td>Reflection and Analysis in Student Teaching in Secondary Education</td>
</tr>
</tbody>
</table>

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/Adolescence Education.

Total Credits Required: 128

Option III - Biology/Bioinformatics

General Education Requirements: same as for Option I as shown above.

Pre-Major Requirements: 20-23 credits

A. All four of the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 170</td>
<td>General Biology I</td>
</tr>
<tr>
<td>BIO 171</td>
<td>General Biology I Laboratory</td>
</tr>
<tr>
<td>BIO 180</td>
<td>General Biology II</td>
</tr>
<tr>
<td>BIO 181</td>
<td>General Biology II Laboratory</td>
</tr>
</tbody>
</table>

B. One of the following three units:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH 230</td>
<td>Calculus I with Pre-Calculus</td>
</tr>
<tr>
<td>MTH 229</td>
<td>Calculus Computer Laboratory</td>
</tr>
<tr>
<td></td>
<td>or</td>
</tr>
<tr>
<td>MTH 231</td>
<td>Analytical Geometry and Calculus I</td>
</tr>
</tbody>
</table>
MTH 229 Calculus Computer Laboratory 1 credit
or
MTH 235 Accelerated Calculus I 5 credits
MTH 229 Calculus Computer Laboratory 1 credit
C. BIO 272 Biometrics 4 credits
D. CSC 126 Introduction to Computer Science 4 credits

**Major Requirements: 81-82 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/Bioinformatics.

A. **Required Courses**
   - BIO 205 General Physiology 4 credits
   - BIO 312 Genetics 4 credits
   - BIO 322 Evolution 4 credits
   - BIO 352 Cell Biology 4 credits
   - BIO 360 Ecology 4 credits
   - BIO 360 Mathematical Biology 4 credits
   - BIO 415 Experimental Methods in Animal Physiology 4 credits
   - BIO 452 Experimental Methods in Behavioral Biology 4 credits
   - BIO 454 Advanced Methods in Cell Biology 4 credits
   - BIO 456 Experimental Methods in Ecology 4 credits
   - BIO 458 Experimental Methods in Cell Biochemistry 4 credits
   - BIO 460 Experimental Methods in Advanced Genetics 4 credits

B. All of the following courses:
   - BIO 327 Molecular Biology 4 credits
   - BIO/CHM 370 Biochemistry I 4 credits
   - BIO/CHM 376 Biochemistry II 4 credits
   - BIO 326 Introduction to Bioinformatics 3 credits
   - MTH/CHM 250 Organic Chemistry I 4 credits
   - CHM 256 Organic Chemistry II 4 credits

C. One advanced six-hour laboratory course from the following:
   - BIO 450 Experimental Methods in Animal Physiology 3 credits
   - BIO 452 Experimental Methods in Behavioral Biology 3 credits
   - BIO 454 Advanced Methods in Cell Biology 3 credits
   - BIO 456 Experimental Methods in Ecology 3 credits
   - BIO 458 Experimental Methods in Cell Biochemistry 3 credits
   - BIO 460 Experimental Methods in Advanced Genetics 3 credits

D. One elective from the following: 3-4 credits
   - BIO 213 Comparative Vertebrate Anatomy 4 credits
   - BIO 215 Invertebrate Zoology and Paleontology 4 credits
   - BIO 228 Botany 4 credits
   - BIO 240 Biology of Disease 4 credits
   - BIO 314 General Microbiology 3 credits
   - BIO 318 Histology 3 credits
   - BIO 324 Developmental Biology 3 credits
   - BIO 325 Diagnostic Molecular Biology 3 credits
   - BIO 332 Advanced Physiology 4 credits
   - BIO 338 Behavioral Biology 4 credits
   - BIO 365 Principles of Neurobiology 3 credits
   - BIO 372 Cell Biochemistry 4 credits
   - BIO 428 Plant Physiology 4 credits
   - BIO 442 Immunology 4 credits

E. **Electives: 0-5 credits**

**Total Credits Required: 128**

For all three Biology BS degree program options, with 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 corequisite 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 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 adviser. 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 adviser 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.

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

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. 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 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. Prerequisite: BIO 102 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 Biology major. (science)
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. (science)
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 Biology major. (science)
Prerequisites: BIO 106, 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)
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.
Prerequisites: BIO 102 or BIO 170/171 or BIO 106/107 or BIO 150

BIO 150 Human Anatomy and Physiology I
3 class 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. May not be used to satisfy general education degree requirements, except for Nursing AAS students.
Prerequisite: BIO 102 with a minimum grade of C or a satisfactory score on the Biology Placement Test. Pre- or corequisite: BIO 105 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 and BIO 105 (when prescribed 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 150 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. May not be used to satisfy general education degree requirements, except for Nursing AAS students.
Prerequisite: 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 preprofessional majors, and other interested students in consultation with an adviser. (science)  
Prerequisite: MTH 020 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 preprofessional majors, and other interested students in consultation with an adviser. (science)  
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 preprofessional majors, and other interested students in consultation with an adviser. (science)  
Prerequisites: BIO 170 and BIO 171  
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 preprofessional majors, and other interested students in consultation with an adviser. (science)  
Prerequisites: BIO 170 and BIO 171  
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.  
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.  
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.  
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.  
Prerequisites: BIO 180 and 181

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.  
Prerequisites: BIO 180 and 181

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 man, 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  
3 hours; 3 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. Effects of disease on human history will also be discussed.  
Prerequisites: BIO 108 and 109, or 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.  
Prerequisite: 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.  
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 microorganisms. Required of Medical Technology majors.  
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.  
Prerequisite: BIO 312

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.  
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  
5 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.  
Prerequisites: BIO 180 and 181; CHM 142  
Pre- or corequisite: BIO 205

BIO 325  Diagnostic Molecular Biology  
(also MDT 325)  
5 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

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.  
Prerequisites: BIO 327 or permission of the instructor. Recommended: BIO 312, BIO 370, BIO 352 or the equivalent

BIO 327  Molecular Biology  
4 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.  
Prerequisites: BIO 205, CHM 142 and CHM 127 or permission of the instructor. Recommended: BIO 312, BIO 370, BIO 352, or the equivalent

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 160 or BIO 205
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.
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.
Prerequisites: BIO 160 and acceptance into the Physical Therapy or Physician Assistant Programs or permission of the appropriate program coordinator.

BIO 346  General Virology
4 hours; 4 credits
Study of major groups of viruses and includes structural and biochemical characteristics, cell-virus interactions, and viral diseases.
Prerequisites: BIO 205 and CHM 142. Recommended: CHM 250 and BIO 312

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.
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.
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.
Prerequisites: BIO 312. Recommended: BIO 215 or BIO 228

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.
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.
Prerequisites: BIO 332, BIO 342, PHT 200

BIO 370  Biochemistry I
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 corequisite: PHY 110 and 111, or PHY 116, or PHY 120 and 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.
Prerequisites: BIO 205, CHM 256

BIO 376  Biochemistry II
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 corequisite: 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 nonionizing 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 corequisite: 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 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. 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. Prerequisites: BIO 205, CHM 142 and CHM 127 Pre- or corequisites: BIO 327. Recommended: BIO 312, BIO 370, or BIO 352.

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. 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. 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. Prerequisite: BIO 314 or 350.

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. 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. 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. 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. 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 biochemistry major. 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.
Prerequisite: BIO 312

See Graduate Catalog for graduate courses.

BUSINESS
(Bachelor of Science, Associate in Applied Science, Minor)
Department of Business
Chair: Professor Laura Nowak, Business Building (3N), Room 219
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 adviser 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.

Business (AAS)
General Education Requirements
ENG 111, ENG 151, COR 100, PED 190: 12 credits
Whenever possible, these four courses should be completed within the first 36 credits.

Scientific Analysis; Social Scientific Analysis; The Contemporary World; Textual, Aesthetic, and Linguistic Analysis: 13-15 credits
1. Scientific Analysis
   At least one science course with laboratory (4 credits)
   Mathematics: MTH 121, MTH 123, or higher (3-4 credits)
2. ECO 101 Introduction to Economics (3 credits)
3. One course from Social Scientific Analysis, The Contemporary World, or Textual, Aesthetic, and Linguistic Analysis (3-4 credits)
See section on general education requirements for approved course lists and complete details.

Core requirements: 23-25 credits
ACC 114  Introduction to Accounting I 4 credits
ACC 121  Introduction to Accounting II 4 credits
BUS 150  Essential Software Tools for Business
or
BUS 250  Computers in Information Processing 3-4 credits
or
CSC 102  Computers for Today
BUS 160  Business Law I 3-4 credits
or
MGT/ECO 230 Introduction to Managerial and Economic Statistics
FNC/

Specialization requirements: 7-8 credits selected from the following recommended courses:

Accounting:
Any two accounting courses above the level of ACC 121 Introduction to Accounting II.

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 and one additional course selected in consultation with the student's adviser (ECO 250 International Economics, POL 260 International Politics: In Search of a New World Order).

Management:
Any two management courses at the 200 level or above.

Marketing:
Any two marketing courses at the 200 level or above.

Electives: 0-5 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. A minimum GPA of 2.5 is required for admission to and continuation in majors leading to the BS in business and for graduation. A 2.5 GPA is not a requirement for students to enroll in the AAS program, for students pursuing a minor in the Business Department, or for students enrolling in individual courses.

General Education Requirements
ENG 111, ENG 151, COR 100, PED 190: 12 credits
Whenever possible, these four courses should be completed within the first 36 credits.

Scientific Analysis; Social Scientific Analysis; The Contemporary World; Textual, Aesthetic, and Linguistic Analysis; Pluralism and Diversity requirements: 21-27 credits

ECO 240  Managerial Finance I 3 credits
MGT 110  Organizational Theory and Management 3 credits
MKT 111  Marketing 3 credits

Business (BS)
Whenever possible, these courses should be completed within the first 60 credits.

1. **Scientific Analysis:** (11 credits)
   a. **Science and Technology:** (8 credits)
   b. **Mathematics:** (3 credits)
   Chosen from MTH 121, MTH 123, MTH 130, MTH 231*, MTH 235
   (*MTH 231 may be taken by those students who wish to combine
   MTH 130 Pre-Calculus Mathematics with MTH 231 Analytic
   Geometry and Calculus I.)

2. **Social Scientific Analysis:** (3-4 credits)
   Including ECO 101 Introduction to Economics

3. **The Contemporary World:** (4 credits)

4. **Textual, Aesthetic, and Linguistic Analysis:** (3-4 credits)
   a. **Literature:** 200-level
   b. **Arts and Communications:** 100-level
   c. **Arts and Communications:** 200-level

5. **Pluralism and Diversity Requirement:** (0-4 credits)
   See section on general education requirements for approved course lists
   and complete details.

   **Note:** International Business students must take two semesters of a
   foreign language. The language requirement can be met by exhibiting
   proficiency or by passing a proficiency exam equivalent to two semesters' work
   at the basic level or higher.

**Pre-Major Requirements: 36-38 credits**

**Business Courses**
- MGT 110 Organizational Theory and Management 3 credits
- MKT 111 Marketing 3 credits
- FNC/ECO 240 Managerial Finance I 3 credits

**Economics Courses**
- ECO 210 Price Theory 4 credits
- ECO 212 Income and Employment Theory 4 credits

**Quantitative and Computer Courses**
- ACC 114 Introduction to Accounting I 4 credits
- ACC 121 Introduction to Accounting II 4 credits
- BUS 150 Essential Software Tools for Business 4 credits
- CSC 102 Computers for Today 4 credits
- CSC 126 Introduction to Computer Science 4 credits
- MGT/ECO 230 Introduction to Economic and Managerial Statistics 4 credits

**One mathematics course chosen from:**
- MTH 130 Pre-Calculus Mathematics
- MTH 221 Applied Finite Mathematics and Business Calculus
- MTH 223 Technical Calculus
- MTH 230 Calculus I with Pre-Calculus
- MTH 231 Analytic Geometry and Calculus I
- MTH 232 Analytic Geometry and Calculus II
- MTH 236 Accelerated Calculus II 3-5 credits

**Major Requirements: 26-30 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: 29-30 credits**

- FNC/ECO 214 Money and Banking 4 credits
- FNC/ECO 345 Managerial Finance II 4 credits
- FNC 350 Advanced Corporate Finance 4 credits
- FNC/ECO 360 Investment Analysis 4 credits
- FNC 370/ECO 370 International Finance 4 credits
- ACC 241 Federal Income Taxation I 3 credits
- ACC 251 Federal Income Taxation II 4 credits
- FNC/ECO 213 Money and Capital Markets 3-4 credits

Plus three additional credits in business and related courses with the written approval of the student's adviser.

**International Business Concentration: 28 credits**

- BUS 200 International Business 4 credits
- FNC 370 International Finance 4 credits
- Foreign Language 8 credits

Note: Students who are exempt from the foreign language course requirement must take additional credits from the courses listed below to complete the 28 credits required in the concentration.

At least one course chosen from each of the following categories:

1. **Business**
   - MKT 415 International Marketing 4 credits
   - MGT 410 Business Policy 4 credits
   - MGT 416 Decision Making 4 credits
   - BUS 598 Business Internship 4 credits

2. **Economics/Political Science**
   - ECO 250 International Economics 4 credits
   - ECO 252 GEG 252 Economic Geography 4 credits
   - ECO 256 Analysis of Underdeveloped Areas 4 credits
   - ECO POL 251 International Political Economy 4 credits
   - POL 260 International Politics 4 credits
   - POL 261 International Organizations 4 credits

3. **History**
   - HST 206 Modern China 4 credits
   - HST 208 Modern Latin America 4 credits
   - HST 210 Modern India 4 credits
   - HST 272 Modern Germany 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 Decision Making in Business 4 credits
Plus two (2) courses chosen from the following list or any other 200-level or higher MGT course: 7-8 credits

- MGT 223 Public Administration 4 credits
- MGT 314 Small Business Management 4 credits
- MGT 322 Human Resource Management 4 credits
- MGT 425 International Management 4 credits
- BUS 200 Introduction to International Business 4 credits
- BUS 211 Principles of Corporate Communications 3 credits
- BUS 238 Ethical Issues in Business and Society 4 credits
- MGT 215 Principles of Selling 4 credits

Plus any one (1) Business-related course* with the written approval of the student's adviser. 3-4 credits

*BUS 100 cannot be used to satisfy this requirement.

Marketing Concentration: 27-28 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 4 credits

An additional seven to eight credits selected from the following two lists including at least one course from list A:

A. Marketing courses:
   - MKT 213 Retail Store Organization and Operation
   - MKT 215 Principles of Selling
   - MKT 216 Sales Management
   - MKT 312 Advertising Copy and Production
   - MKT 415 International Marketing
   - MKT 490 Marketing Seminar

   Any additional MKT courses at the 200 level or higher

B. Additional courses:
   - BUS 160 Business Law I
   - BUS 200 Introduction to International Business
   - BUS 250 Computers in Information Processing
   - BUS 598 Business Internships
   - COM 250 Basic Design and Media Graphics
   - ECO 323/ MGT 324 Introduction to Econometrics
   - ENL 112 Public Speaking
   - ENL 212 Discussion and Debate
   - PSY 214 Psychology of Advertising

Electives: 13 - 25 credits

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.

Minors

The Business minors are available to students in any of the College's bachelor's degree majors.

Minor in Business

At least 15 credits from any ACC, BUS, FNC, MGT, or MKT courses or ECO 101

Minor in Finance

At least 18 credits of courses including:

- ACC 114 Introduction to Accounting I 4 credits
- MGT 110 Organizational Theory and Management 3 credits
- ECO/ FNC 240 Managerial Finance I 3 credits
- ECO/ FNC 345 Managerial Finance II 4 credits
- One additional finance course 4 credits

Minor in Management

At least 18 credits of courses including:

- 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

At least 18 credits of courses including:

- 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

Accounting courses are listed alphabetically under ACC.

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 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.

Co-requisite: 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 (MOS) 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
The study of the law of contracts, agency, personal property, bailments, real property, mortgages, fire and casualty insurance, and accountant’s legal liability. The lecture and case study methods will be employed.
Prerequisites: Successful completion of C/ACT Writing Skills Test, C/ACT Reading Sample Test, and the CUNY Math Assessment Test or the equivalent

BUS 200  Introduction to International Business
4 hours; 4 credits
International business is examined 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 and MGT 110 or MKT 111

BUS 205  Data Communications and Networks for Business
4 hours; 4 credits
Fundamentals of data communications, including hardware, basic components of communications, configurations, networks and applications, protocols, and software. Detailed presentation of networks management and networks design fundamentals, including local networks.
Prerequisite: BUS 150 or CSC 102 or CSC 108/116/118 or CSC 126

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  Principles of Corporate Communication
(also COM 211)
4 hours; 3 credits
A critical survey of artifacts of corporate and public communication, including films, video programs, and other audio-visual presentations, annual reports, catalogues, brochures, house organs, and other print communications. Corporate publications: their meaning, purpose, audience, and significance. Writing and editing for such publications with special emphasis on audience and purpose and development of a variety of editorial skills: proofreading, reorganizing, rewriting, collaborating, coauthoring. Students who successfully complete COM/ENL 214 may not register for COM 211.
Prerequisites: COM 150 and ENG 151

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 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.)

BUS 334  Decision Support Systems
4 hours; 4 credits
This course introduces modern approaches to management information systems methodologies and typical realizations. The use of computer systems and the data structures needed to implement small MIS environments and extensive network-based information systems will be covered. Current concepts from artificial intelligence and database management will be used in designing and building effective information systems, ranging in complexity from simple retrieval systems to sophisticated decision support systems. Prerequisites: CSC 126, ECO/MGT 230, BUS 352

BUS 352  Introduction to Systems Analysis
4 hours; 4 credits
An analysis of business needs to be satisfied by systems solutions. The systems development cycle. Determining systems requirements. Design of input, output, database, and processes. Controls of data integrity and security. Managing a systems development project. Preliminary systems design. Prerequisites: ACC 114 and one of the following computer courses: BUS 150 or CSC 126 or CSC 102, or permission of the instructor.

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 control, cost analysis procedures, contract and copyright law in relation to the media, and organization theory. Prerequisite: COM 150, and COM 261 or COM 270 or CIN 111

Finance Courses

FNC 111  Personal Finance
3 hours; 3 credits
Discussion of the problems involved in handling personal finance: taxes, life insurance, investments and securities, borrowing, savings, annuities, wills, trusts, estate taxes, and budgeting. Prerequisites: Successful completion of the CUNY Mathematics Assessment Test, the C/ACT Writing Skills test, and the C/ACT Reading Sample 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 C/ACT Writing Skills Test and C/ACT Reading Sample Test or equivalent and ECO 101

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 C/ACT Writing Skills Test and C/ACT Reading Sample Test or equivalent and ECO 101

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. Prerequisite: MTH 030 or MTH 121 or MTH 123 or equivalent and ACC 114 and ECO 101

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. Prerequisite: 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 240

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.  
Prerequisite: FNC/ECO 345

FNC 370  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

Management Courses

MGT 110  Organizational Theory and Management  
3 hours; 3 credits  
Theories of organization and management are developed, examined, and applied to business and nonprofit institutions. Evaluation of organizational structure and practice in light of these theories. Studies of leadership, small group behavior, creativity, communication, and the process of social change in the large business organization.  
Prerequisites: ENG 111, and MTH 025 or 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.  
Prerequisite: MGT 110, ECO 101, 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/ACT Writing Skills Test and CUNY/ACT Reading Sample Test and ECO 101, and MTH 121 or 123, and BUS 150 or BUS 250 or CSC 102 or CSC 126.

MGT 261  Labor Relations  
(Also POL 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

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.  
Prerequisites: 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
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 213  Retail Store Organization and Operation
3 hours; 3 credits
Survey of the functions, principles, procedures, organization, and activities involved in retail store operations. Current trends and developments in retailing practices are analyzed.
Prerequisite: MKT 111

MKT 215  Principles of Selling
3 hours; 3 credits
A study of the problems of sales management: sales policies; selection and training of salespersons; methods of compensation and sales stimulation; sales administration and budgeting; sales forecasting. Analysis and evaluation of current practices in sales management.
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 or permission of the instructor

MKT 312  Advertising Copy and Production
4 hours; 4 credits
Creative and procedural techniques involved in planning, preparing, and producing advertisements for print and broadcast media. Problems and practice exercises are used to develop a working technical skill. Hands-on production experience in all media.
Prerequisite: MKT 211
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 web site 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 250 or CSC102 or permission of the instructor
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 415  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.
Prerequisites: ECO 250 or BUS 200 and MKT 111

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, or permission of instructor

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.
Prerequisite: 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

Chair: Associate Professor John Olsen, Biological/Chemical Sciences
Building (6S), Room 235

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)

General Education Requirements for the BS
ENG 111, ENG 151, COR 100, PED 190:  12 credits
Whenever possible, these four courses should be completed within the first
36 credits.

Scientific Analysis; Social Scientific Analysis; The
Contemporary World; Textual, Aesthetic, and Linguistic
Analysis; Pluralism and Diversity requirements: 21-27 credits
Whenever possible, these courses should be completed within the first 60 credits.
1.  Scientific Analysis: (11 credits)
   a.  Science and Technology: (8 credits)
   b.  Mathematics: (3 credits)
2.  Social Scientific Analysis: (3-4 credits)
3.  The Contemporary World: (4 credits)
4.  Textual, Aesthetic, and Linguistic Analysis: (3-4 credits)
   a.  Literature: 200-level
   b.  Arts and Communications: 100-level
   c.  Arts and Communications: 200-level
5.  Pluralism and Diversity Requirement: (0-4 credits)
See section on general education requirements for approved course lists and
complete details.

Pre-Major Requirements: 26 credits

Students planning to major in Chemistry must complete the following
requirements. A detailed guide to course choices for Biochemistry and
Chemistry majors is available from the Department of Chemistry.

CHEMISTRY

CHEM 121 General Chemistry I Laboratory 1 credit
CHEM 127 General Chemistry II Laboratory 1 credit
CHEM 142 General Chemistry I Laboratory 1 credit
CHEM 250 Organic Chemistry I 4 credits
CHEM 256 Organic Chemistry II 4 credits
CHEM 240 Quantitative Chemistry 4 credits
CHEM 330 Physical Chemistry: Equilibria 4 credits
CHEM 336 Physical Chemistry: Processes 4 credits
CHEM 337 Experimental Methods in Physical Chemistry 4 credits

Three additional chemistry electives at the 300 level or higher 12 credits
Electives: 19-36 credits
All Chemistry majors are encouraged to take an Independent Study course (CHM 591-4) 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 1) 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 September 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.

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
- One 300-level chemistry course 4 credits

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 025 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 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)
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)
Pre- or corequisite: CHM 106

CHM 108 Chemistry for Today II
3 hours; 3 credits
A continuation of Chemistry 106. Topics will be chosen from among the following: fossil fuels and pollution, humankind'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)
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)
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)
Prerequisite: MTH 020 or an appropriate score on the CUNY Mathematics Assessment Test Corequisite: CHM 110

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)
Prerequisite: CHM 110 and 111 or permission of the instructor
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 organic and biochemical compounds of the types considered in CHM 116. (science)
Prerequisites: CHM 110 and 111 or permission of the instructor
Corequisite: CHM 116

CHM 121 General Chemistry I Laboratory
3 laboratory hours; 1 credit
Experiments reinforce important chemical concepts discussed in lectures, teach modern lab techniques, and emphasize present day interpretations of lab measurements. (science)
Pre- or corequisite: CHM 141

CHM 127 General Chemistry II Laboratory
3 laboratory hours; 1 credit
A continuation of CHM 121. Inorganic qualitative analysis. (science)
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 concerning the structure and behavior of matter. The first semester covers atomic and molecular structure, chemical bonding, reactions, stoichiometry and the gaseous, liquid, and solid states of matter. (science)
Prerequisite: CHM 141
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 thermodynamics, electrochemistry, nuclear and organic chemistry. (science)
Prerequisite: CHM 141
Corequisite: CHM 127

CHM 240 Analytical Chemistry
4 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 chemical analysis. An introduction to instrumental methods of analysis.
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 thoroughly discussed.
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 functional 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.
Prerequisite: CHM 250

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 applied to chemical systems. Vacuum and gas handling techniques, optico-chemical methods, transport and electrochemical processes.
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 analysis. General treatment of the operating characteristics of instruments. A consideration of ultraviolet-visible, infrared, 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 electronics, including operational amplifiers, triodes, transistors, and transducers.
Prerequisites: CHM 142 and CHM 127, CHM 240 or permission of the instructor

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 256
Corequisite: CHM 330 or CHM 336 or permission of the instructor

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
Corequisite: PHY 110 or 120 or permission of the instructor

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
Corequisite: PHY 150 or 160 or permission of the instructor
CINEMA STUDIES

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.
Prerequisite: CHM 240 or BIO 312 or BIO 352
Corequisite: CHM 370/BIO 370

CHM 434  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.
Pre- or corequisite: CHM 256 or 330 or 336 or permission of instructor

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 452  Polymer Chemistry
4 hours; 4 credits
Prerequisites: CHM 256, 330, and 336; permission of the instructor

CHM 592  Independent Study for Research
2 credits

CHM 594  Independent Study for Honors Research
4 credits

See Graduate Catalog for graduate courses.

CINEMA STUDIES

(Bachelor of Arts, Minor; Master of Arts - see Graduate Catalog)
Department of Media Culture
Chair: Assistant Professor Edward Miller, Center for the Arts (1P), Room 226

Cinema Studies (BA)

General Education Requirements for the BA
ENG 111, ENG 151, COR 100, PED 190: 12 credits
Whenever possible, these four courses should be completed within the first 36 credits.

Scientific Analysis; Social Scientific Analysis; The Contemporary World; Textual, Aesthetic, and Linguistic Analysis; Pluralism and Diversity requirements: 28-47 credits
Whenever possible, these courses should be completed within the first 60 credits.
1. Scientific Analysis: (11 credits)
   a. Science and Technology: (8 credits)
   b. Mathematics: (3 credits)
2. Social Scientific Analysis: (7-8 credits)
3. The Contemporary World: (4 credits)
4. Textual, Aesthetic, and Linguistic Analysis: (6-8 credits)
   a. Literature: 200-level
   b. Arts and Communications: 100-level
   Arts and Communications: 200-level
5. Pluralism and Diversity Requirement: (0-4 credits)
6. Foreign Language: (0-12 credits)
See section on general education requirements for approved course lists and complete details.

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  Basic Video Production

Major Requirements: 32 credits
Students majoring in Cinema Studies must complete 32 credits of cinema studies courses at the 200 or higher level. These 32 credits must include:
CIN 210  History and Theory of Film I 4 credits
CIN 220  History and Theory of Film II 4 credits
At least 12 additional credits in film history, theory, and aesthetics:
CIN 204, 230, 240, 301, 303, 304, 401, 402, 404, 405, 406, 407, 408 12 credits
At least six credits in film production:
CIN 211, 311, 312 6 credits

Electives: 23-45 credits
Total Credits Required: 120

Liberal Arts and Sciences Requirement
Film production courses are non-liberal arts and sciences.

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 adviser.

Minor
Prerequisite Courses: 6 credits
CIN 100  Introduction to Film 3 credits
CIN 111  Basic Video Production 3 credits
Minor Requirements: 12 credits
CIN 210  History and Theory of Film I 4 credits
At least eight credits chosen from CIN 211, 220, 230, 240, 301, 302, 303, 310, 311, 312, 401, 402, 404, 405, 406, 407, 408 8 credits
Courses

CIN 100 Introduction to Film
4 hours; 3 credits
An introduction to the art of film and to the methods and terms of film analysis. Topics to be covered include the nature of cinematic time and space; the contribution of directorial style; the effects of cutting, editing, lighting, framing, camera movement, and sound; and the relationship between written script and visual imagery. (arts & com.)

CIN 111 Basic Video Production
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. Others may register by permission of the instructor. (arts & com.)

CIN 204 Politics and Film
(Also POL 219)
4 hours; 4 credits
An analysis of the political and social perspectives and directing styles of a variety of European and American directors. The course will examine how race, social class, gender, ethnicity, revolution, the city, and national character and culture are represented in these films. (social science) (arts & com.)
Prerequisite: ENG 111, COR 100

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: CIN 100 and ENG 111

CIN 211 Film/Video Cinematography
4 hours; 3 credits
A basic workshop in film/video cinematography. Practical exercises with video and 16mm equipment will focus on techniques of composition, lighting, and camera movement.
Prerequisite: CIN 111

CIN 220 History and Theory of Film II
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: CIN 100, ENG 111, and CIN 210 or permission of the instructor.

CIN 230 American Film and American Myth
(Also AMS 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.)
Prerequisite: ENG 111

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 a national identity within a post-colonial multinational context. Considered and analyzed will be films from Africa, Latin America, the Middle East, and Asia. Films directed by Glauber Rocha, Satyajit Ray, Tomas Alea, Tracy Moffatt, among others, will be examined. (p&d)
Prerequisite: CIN 100

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 290 Internship in Media Production
(Also COM 290)
1-4 credits
An internship work and learning experience with a public or private agency whose activity is film, video, television, or radio production.
Prerequisite: A 100-level course in cinema studies, or the equivalent and permission of the faculty sponsor

CIN 301 Literature into Film
4 hours; 4 credits
An examination of the aesthetic and practical problems in translating fiction into film. Students will read novels and plays and view the films made from them, with class discussions to focus on the potentialities and limitations of each art form.
Prerequisites: CIN 100 and ENG 111

CIN 303 Screen Comedy
4 hours; 4 credits
An examination of the screen comedians. The course will consider the comic techniques of the performers and the particular cinematic devices that are used to convey the performance. Showings of films by Chaplin, Lloyd, Keaton, Lubitsch, Laurel and Hardy, the Marx Brothers, W.C. Fields, and others.
Prerequisites: CIN 100 and ENG 111

CIN 304 Nonfiction Film
4 hours; 4 credits
A critical and historical survey of the development of nonfiction film, including the work of such filmmakers as Robert Flaherty, John Grierson, Pare Lorentz, Williard Van Dyke, Leni Riefenstahl, Richard Leacock, Albert and David Maysles, and Frederick Wiseman.
Prerequisites: CIN 100 and ENG 111

CIN 311 Film/Video Workshop
4 hours; 3 credits
Students will use advanced filmmaking and video equipment in the production of sync-sound documentary or fiction videos. Projects shot on film will be edited on video. Emphasis is placed on the ability of students to work in production crews. This course may be repeated for credit.
Prerequisite: CIN 111, and either CIN 211 or COM 261

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.
Prerequisite: CIN 111, 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.  
Prerequisite: CIN 211 or permission of the instructor

CIN 401 Major American Directors I  
4 hours; 4 credits  
The place of individual directorial style in the American movie industry: Howard Hawks, Preston Sturges, Josef von Sternberg, John Ford, Alfred Hitchcock, and Orson Welles.  
Prerequisites: CIN 100 and ENG 111

CIN 402 Major American Directors II  
4 hours; 4 credits  
The place of individual directorial style in the American movie industry: Martin Scorsese, Robert Altman, Spike Lee, and Francis Ford Coppola.  
Prerequisites: CIN 100 and ENG 111

CIN 404 Major French Directors I  
4 hours; 4 credits  
A study of the personal vision and style of several French directors chosen from the leading figures of the 1930s, 1940s, and 1950s: Clair, Cocteau, Renoir, Vigo, Ophuls, Carne, Bresson, and Franju.  
Prerequisites: CIN 100 and ENG 111

CIN 405 Major French Directors II  
4 hours; 4 credits  
A study of the work of the major New Wave directors (Truffaut, Godard, Resnais, Varda, Chabrol, Rohmer) and the French and American sources that influenced their aesthetic.  
Prerequisites: CIN 100 and ENG 111

CIN 406 Postwar Italian Cinema  
(Also LNG 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 100 and ENG 111

CIN 407 International Films I  
4 hours; 4 credits  
An exploration of the work of important filmmakers from Western and Central Europe and Scandinavia. Those studied may include Olmi, Tanner, Herzog, Fassbinder, and Bergman.  
Prerequisites: CIN 210 and ENG 111

CIN 408 International Films II  
4 hours; 4 credits  
An exploration of the work of important filmmakers from Eastern Europe, Asia, and the nations of the developing world. Those studied may include Wajda, Szabo, Forman, Kurosawa, Mizoguchi, and Ray.  
Prerequisites: CIN 210 and ENG 111

CIN 436 Screen Writing  
(Also ENL 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 filmscript as well as adapting a piece of existing material for the screen.  
Prerequisite: CIN/ENL 274 or permission of the instructor

For graduate courses in Cinema Studies see the Graduate Catalog.

CIVIL ENGINEERING TECHNOLOGY

Courses
CET 230 Statics  
1 class hour, 2 laboratory hours; 2 credits  
Prerequisite: ENT 100 or PHY 110  
Pre- or corequisite: MTH 123

CET 360 Strength of Materials  
2 class hours, 2 laboratory hours; 3 credits  
Theoretical design analysis supplemented by practical testing and experimentation. Topics include: axial stress and strain, shear and moment diagrams, beam deflection, torsion, columns. Written reports are required in connection with the laboratory work.  
Prerequisite: CET 230

COMMUNICATIONS

(Bachelor of Science, Minor)  
Department of Media Culture  
Chair: Assistant Professor Edward Miller, Center for the Arts (1P), Room 203  
This program is offered by the Department of Media Culture in collaboration with the Department of English, Speech, and World Literature and in association with the Department of Business, the Department of Psychology, and the Department of Sociology, Anthropology, and Social Work. The program is designed to provide undergraduate students with a broad, comprehensive and multidisciplinary liberal arts education, while at the same time introducing them to the field of communications and equipping them with specialized skills and competencies. Students select one of the following areas of specialization: media studies, corporate communications, publication design, and journalism.

Communications (BS)  
General Education Requirements  
ENG 111, ENG 151, COR 100, PED 190: 12 credits  
Whenever possible, these four courses should be completed within the first 36 credits.

Scientific Analysis; Social Scientific Analysis; The Contemporary World; Textual, Aesthetic, and Linguistic Analysis; Pluralism and Diversity; Foreign Language requirements: 28-47 credits  
Whenever possible, these courses should be completed within the first 60 credits.

1. Scientific Analysis: (11 credits)  
   a. Science and Technology: (8 credits)  
   b. Mathematics: (3 credits)
2. Social Scientific Analysis: (7-8 credits)
3. The Contemporary World: (4 credits)
4. Textual, Aesthetic, and Linguistic Analysis: (6-8 credits)
   a. Literature: 200-level
   b. Arts and Communications: 100-level
      Arts and Communications: 200-level
5. Pluralism and Diversity Requirement: (0-4 credits)
6. Foreign Language: (0-12 credits)
See section on general education requirements for approved course lists
and complete details.

**Major Requirements: 51-57 credits**
Common Core: required for all specializations: 33-34 credits
1. History and Theory of Communications (16 credits)
   COM 150 Introduction to Communications 4 credits
   COM 203 Theories of Communications 4 credits
   Two of the following: 8 credits
   COM/ SOC 374 Mass Media in Modern Society
   COM 220 History of Broadcasting
   COM/ ENL 230 History of Print Media
2. Practical and Applied (10-11 credits)
   COM/ ENL 277 Introduction to Journalism 4 credits
   One of the following: 3-4 credits
   CSC 102 Computing for Today
   BUS 150 Essential Software Tools in Business
   One of the following: 3 credits
   CIN 111 Film/Video Production I
   COM 250 Basic Design and Media Graphics
   COM 261 Television Studio Production
   COM 270 Radio Production
3. Internship (3 credits)
   COM/ CIN 290 Internship in Media Production 3 credits
4. Communications Seminar (4 credits)
   COM 450 Senior Seminar in Communications 4 credits

**Areas of Specialization (18-23 credits)**
Communications majors must elect one of the following specializations:
media studies, corporate communications, publication design, or
journalism.

**Electives: 4-29 credits**
**Total Credits Required: 120**
It is strongly recommended that students majoring in Communications also
elect a minor. The choice of minor should be developed in accordance with the
student's career objectives in consultation with the student's faculty adviser.

**Specialization: Media Studies**
The specialization in media studies prepares students for entry-level
positions in media production and media research. Students study the basic
production skills of film, video, audio, and television as well as the
institutional contexts in which mediated communication often occurs.
Students are introduced to basic theories of communications and
specialized theories of mass communications.

**Requirements: 23 credits**
   CIN 111 Film/Video Production I 3 credits
   CIN 211 Film/Video Production II 3 credits
   COM 240 Media Workshop: Acting, Directing, and Producing for the Media 3 credits
   One of the following: 4 credits
   COM 200 Media and Culture
   COM 201 History and Theory of Television
   COM/ ENL 312 Theories of Mass Media
   One of the following: 4 credits
   COM/
   ANT 225 Multicultural Literacy
   COM 370 Introduction to Web Design, Graphics, and Theory
   COM 371 Minorities and the Media
   Two of the following: 6 credits
   COM/ ENL 241 Communications Design Workshop
   COM 251 Advanced Design
   COM 261 TV Studio Production
   COM 271 Radio/TV Newscasting

**Specialization: Corporate Communications**
The specialization in corporate communications prepares students to enter
business and not-for-profit settings. The curriculum provides a theoretical
framework and practical skills in writing and design, with particular
emphasis on their interrelationship, as well as knowledge of related
production and business practices.

**Requirements: 21 credits**
   COM 211 Principles of Corporate Communications 3 credits
   COM/ ENL 241 Communications Design Workshop: Writing and Design 3 credits
   COM 410 Media Administration 4 credits
   ACC 114 Introduction to Accounting I 4 credits
   One of the following: 3 credits
   BUS 100 Introduction to Business
   MKT 111 Marketing
   MGT 110 Organizational Theory and Management
   FNC 240 Managerial Finance I
   One of the following: 4 credits
   MKT 211 Advertising
   COM/ ENL 412 Broadcast Journalism
   ENL 457 Writing in the Business World
   COM/ ENL 438 Newspaper Reporting
   ENL 439 Copyediting and Proofreading
   COM/ ENL 456 Writing for the Media
   COM/ ENL 475 Writing for Advertising and Public Relations
Specialization: Publication Design
The specialization in publication design prepares students for entry-level positions in publishing, small advertising and design organizations, and in public relations and publicity departments. The curriculum emphasizes writing and design skills and those skills specific to publicity, public relations, and publishing processes. The practical component provides students with the opportunity to develop skills and competence in at least one area of practical application: graphic design, non-broadcast video, radio, and tape production.

Requirements: 21 credits
- COM/ENL 214 Principles of Editorial Style: Integration of Writing and Graphics 3 credits
- COM/ENL 241 Communications Design Workshop: Writing and Design 3 credits
- One of the following: 3 credits
  - CIN 211 Film/Video Production II
  - COM 251 Advanced Design
  - COM 261 TV Studio Production
  - COM 271 Radio and TV Newscasting
- Three of the following: 12 credits
  - COM 410 Media Administration
  - COM/ENL 412 Broadcast Journalism
  - ENL 439 Copyediting and Proofreading
  - ENL 440 Magazine Writing
  - COM/ENL 465 Writing for the Media
  - ENL 475 Writing for Advertising and Public Relations Journalism

Specialization: Journalism
The specialization in journalism prepares students for entry-level positions in print and broadcast journalism. The curriculum provides students with a broad background in English language, linguistics, and literature, and with the development of writing and reportorial skills suited to contemporary journalism.

Requirements: 18-20 credits
- COM/
  - ENL 412 Broadcast Journalism 4 credits
- COM/
  - ENL 438 Newspaper Reporting 4 credits
- COM/
  - ENL 480 Studies in Advanced Journalism 4 credits
- Two of the following: 6-8 credits
  - COM/
  - ENL 214 Principles of Editorial Style: Integration of Writing and Graphics
  - ENL 241 Communications Design Workshop: Writing and Design
Minor in Publication Design: 17 credits

- COM/ENL 214 Principles of Editorial Style 3 credits
- COM/ENL 241 Communications Design Workshop 3 credits
- COM/ENL 277 Introduction to Journalism 4 credits
- One of the following: 3 credits
  - COM 250 Basic Design and Media Graphics
  - COM 260 Small Format TV Production
  - COM 270 Radio Production
- One of the following: 4 credits
  - COM/ENL 412 Broadcast Journalism
  - COM/ENL 438 Newspaper Reporting
  - COM/ENL 439 Copyediting and Proofreading
  - COM/ENL 440 Magazine Writing
  - COM/ENL 465 Writing for the Media
  - COM/ENL 475 Writing for Advertising and Public Relations

Minor in Journalism: 10-12 credits

Two of the following: 7-8 credits

- COM/ENL 277 Introduction to Journalism
- COM/ENL 412 Broadcast Journalism
- COM/ENL 438 Newspaper Reporting
- COM/ENL 480 Studies in Advanced Journalism
- One of the following: 3-4 credits
  - COM/ENL 214 Principles of Editorial Style
    - Integration of Writing and Graphics
  - ENL 433 Nonfiction Writing
  - ENL 439 Copyediting and Proofreading
  - ENL 440 Magazine Writing
  - ENL 441 Writing about the Media
  - ENL 465 Writing for the Media
  - ENL 475 Writing for Advertising and Public Relations
  - ENL 445 Journalism and Society

Courses

**COM 100 Introduction to Media**
3 hours; 3 credits
An introduction to television, radio, and related media. (arts & com.)

**COM 150 Introduction to Communications**
4 hours; 4 credits
The course provides a general introduction to the field of communications. It is intended for potential majors, and is designed to introduce basic concepts in the study of communications modes, media, and messages; interpersonal, organizational, and mass communication contexts; and the process of communications research.

**COM 200 Media and Culture**
4 hours; 4 credits
Media and Culture examines the nature and structure of communication media, their interrelationships, and their social, economic, and cultural contexts. The course considers the role of the mass media in influencing its audiences, and the effects of these strategies and messages on individuals, groups, and institutions. (arts & com.)
Prerequisite: ENG 111, and COM 100 or 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.)
Prerequisite: ENG 111

**COM 203 Theories of Communications**
4 hours; 4 credits
Theories of Communications examines the development of communications as an academic discipline, tracing its roots in rhetoric, social psychology, political science, sociology, anthropology, and other disciplines. General theories of human communication will be discussed, as well as specialized theories of mass communication. Different models of communication (e.g., Shannon and Weaver’s “Information Theory”) will be presented and critiqued.
Prerequisite: ENG 111 and COM 150

**COM 211 Principles of Corporate Communications**
(Also BUS 211) 4 hours; 3 credits
A critical survey of artifacts of corporate and public communications, including films, video programs and other audio-visual presentations, annual reports, catalogues, brochures, house organs, and other print communications. Analyses of corporate publications will focus on their meaning, purpose, audience, and significance. Writing and editing for such publications is taught, with special emphasis on audience and purpose and the development of a variety of editorial skills: proofreading, reorganizing, rewriting, collaborating, coauthoring.
Students who successfully complete COM/ENL 214 may not register for COM 211.
Prerequisites: COM 150 and ENG 151
COM 214  Principles of Editorial Style: Integration of Writing and Graphics
(Also ENL 214)
4 hours; 3 credits
Editorial style as total concept, including both visual and written concept. An introduction to professional writing, editorial concepts, and the publication process. Focus on brochure, newsletter, magazine, advertisement, and book structure; their meaning and significance. Writing and editing for such publications and for the marketplace, with special emphasis on audience and purpose and the development of a variety of editorial skills, such as proofreading, reorganizing, rewriting, collaborating, and coauthoring.
Students who successfully complete COM 211 may not register for COM/ENL 214.
Prerequisite: ENG 151 or permission of instructor.

COM 220  History of Broadcasting
4 hours; 4 credits
This course examines the structure and development of the American broadcasting system. The course considers political, economic, social, aesthetic, and technological factors contributing to the growth of radio and television as publicly owned but privately operated, profit-generating telecommunications media.
Prerequisite: ENG 111 and COM 150

COM 225  Multicultural Literacy
(Also ANT 225)
4 hours; 4 credits
This course will explore the nature of culture as it is defined by various disciplines and affected by class, race, gender, and ethnicity. Readings will include texts in anthropology, sociology, literary theory, media studies, and women's studies. (social science) (arts & com.) (p&d)
Prerequisites: ENG 151, COR 100; and either ANT 100, COM 100, HST 100, POL 100, SOC 100, or WMS 100

COM 230  A History of Print Media
(Also ENL 230)
4 hours; 4 credits
An introductory survey of the evolution of newspapers, periodicals, and the publishing industry, focusing on technological developments, major innovations, legal and ethical issues, and societal impact.
Prerequisite: ENG 151 and COM 150

COM 240  Media Workshop: Acting, Directing, and Producing for the Media
4 hours; 3 credits
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.
Pre- or corequisite: CIN 111

COM 241  Communications Design Workshop: Writing and Design
(Also ENL 241)
4 hours; 3 credits
Theoretical and practical approaches to the interrelationship of writing, print, and video graphics. Analysis of the role of subject, voice, and audience in determining appropriate visual and verbal forms. Practical problems of graphic and video reproduction and execution with applications through desktop publishing and small format TV. Each student works through a number of design problems and completes various problems and projects of his/her own choice.
Prerequisite: COM/ENL 214

COM 249  Workshop in Typesetting
2 hours; 1 credit
An intensive five-week course designed to introduce the student to the various capabilities and applications of desktop publishing.

COM 250  Basic Design and Media Graphics
4 hours; 3 credits
A hands-on course in the skills of layout and design. The course will focus on the organization of visual space, both moving and stationary, visual strategies, and the appropriateness of visual design to various audiences. Recommended for students with limited background in design.

COM 251  Advanced Design
4 hours; 3 credits
Case studies for projects from print and electronic media, focused on informational graphics, are assigned to students. Individual development of communications, problem solving, and presentation skills are stressed. Presentation to critiques by juries of professionals and peers represents a significant dimension of each class.
Prerequisite: COM 250

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.
Prerequisite: 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 270 or COM 261

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 290  Internship in Media Production
(Also CIN 290)
1 to 4 credits
An internship work and learning experience with a public or private agency whose activity is film, video, television, or radio production.
Prerequisites: A 100-level course in communications, cinema studies, or the equivalent and permission of the faculty sponsor (special form required)

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

COM 370  Introduction to Web Design, Graphics, and Theory
4 hours; 4 credits
This course explores Web design, new-media, digital culture, and cyberspace. These terms and practices, integrally linked, speak of current and emerging technologies. This course is concerned with the operation of technical equipment, equipment requirements of emerging technologies, and the theoretical implications of Web-based design. Students will create projects employing Web design software. Along with production, COM 370 focuses on the understanding of the psychological, cultural, social, economic, and political relationships that have brought about the development of “cyber-society.”
Prerequisites: COM 203 and COM 250

COM 371  Minorities and the Media
(also SOC 371)
4 hours; 4 credits
This course will examine the role of the mass media as cultural institutions in shaping the images and self-images of different minority groups. Definitions and images to be analyzed are drawn from religious, medical, and social scientific sources, as well as elite and popular culture. (p&d)
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.
Prerequisite: COM 150 and a 200-level SOC or ANT course

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.
Prerequisite: COM 150, and COM 261 or COM 270 or CIN 111

COM 412  Broadcast Journalism
(Also ENL 412)
4 hours; 4 credits
An introduction to the theory, history, and practice of modern newscasting. Special emphasis will be placed on preparing material for broadcast on radio and television. 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.
Prerequisite: ENG 151; COM 100 is recommended

COM 438  Newspaper Reporting
(Also ENL 438)
4 hours; 4 credits
Techniques of copyediting and proofreading for both the reporter-writer and the editor.
Prerequisite: ENG 151

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: ENG 151

COM 450  Senior Seminar in Communications Research
4 hours; 4 credits
This course provides an overview of communications research, and introduces students to basic research procedures, paradigms, and methods. First, we examine the historical development of the field of communications theory and research. Then we introduce some of the basic research goals, methodologies, and strategies used in communications research. Students then use these tools to formulate a research problem of their own. Not open to students who have previously taken COM 400.
Prerequisites: COM 203, and COM 220 or COM 230 or COM 374

COM 465  Writing for the Media
(Also ENL 465)
4 hours; 4 credits
Scripting for various media, including slide-tape presentations, audio, video, film, television, and print. The course emphasizes the translation of information, ideas, and experience into various presentational formats and applies that knowledge to specific projects such as marketing presentations, sales, promotional scripts, and motivational scripts within industry.
Prerequisites: 200-level COM course and ENG 151 or permission of instructor

COM 475  Writing for Advertising and Public Relations
(Also ENL 475)
4 hours; 4 credits
An introduction to the techniques of writing promotional copy, including advertising (print and broadcast), press releases, direct mail, and publicity materials. Students analyze advertising and public relations campaigns from a marketing point of view and evaluate and discuss their effectiveness. Assignments include product, audience, and media analysis; copywriting ads; press releases; and direct mail letters.
Prerequisites: COM 211 or COM/ENL 214 and ENG 151 or permission of instructor
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. Emphasis varies from term to term. Prerequisite: COM 412 or COM 438

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 seminar-style. Prerequisites: Senior standing and permission of the instructor

COMPUTER SCIENCE  
AND COMPUTER TECHNOLOGY

(Bachelor of Science, Associate in Applied Science, Minor; Master of Science - see Graduate Catalog)  
Department of Computer Science  
Chair: Associate Professor Deborah Sturm, Computer Science/Engineering Sciences and Physics Building (1N), Room 215

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.

General Education Requirements  
ENG 111, ENG 151, COR 100, PED 190: 12 credits  
Whenever possible, these four courses should be completed within the first 36 credits.

Scientific Analysis; Social Scientific Analysis; The Contemporary World; Textual, Aesthetic, and Linguistic Analysis: 15 credits  
1. Scientific Analysis  
   A one-year, eight-credit sequence of laboratory science (8 credits)  
2. At least one course from two of the following groups:  
   Social Scientific Analysis; The Contemporary World; Textual, Aesthetic, and Linguistic Analysis (7 credits)  
See section on general education requirements for approved course lists and complete details.

Pre-Core Requirement: 4 credits  
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: 29 credits  
CSC 210  Applications Programming  4 credits  
CSC 220  Computers and Programming  4 credits  
CSC/  
MTH 228  Discrete Mathematical Structures  4 credits  
CSC 326  Information Structures  4 credits  
CSC 330  Object-Oriented Software Design  4 credits  
CSC 332  Operating Systems I  4 credits  
MTH 229  Calculus Computer Laboratory  1 credit  
MTH 231  Analytic Geometry and Calculus I  4 credits

Total Credits Required: 60

Liberal Arts and Sciences Requirement  
Courses designated CSC are non-liberal arts and sciences.

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. Our goal is to deliver a broad-based, high-quality program in computer science that prepares students for lifelong learning as they pursue professional careers in computing and graduate programs.

Our curriculum offers a balance of theoretical and applied software and hardware courses. Within software design, we emphasize an object-oriented approach with user interface development and testing. In addition to classic switching theory and architecture, students build and test hardware components. We are committed to offering courses that stay current with changing technologies. Our senior seminar stresses presentation and written skills, and discusses ethical concerns in computer science.

Students interested in transferring into the program from the two-year Computer Technology program should consult the department chairperson.

The program in Computer Science is accredited by the Computing Accreditation Commission (CAC) of the Accreditation Board for Engineering and Technology (ABET).

General Education Requirements for the BS: 41 credits  
(These include at least 30 credits not in science, mathematics, or computer science.)  
ENG 111, ENG 151, COR 100, PED 190: 12 credits  
Whenever possible, these four courses should be completed within the first 36 credits.

Scientific Analysis; Social Scientific Analysis; The Contemporary World; Textual, Aesthetic, and Linguistic Analysis; Pluralism and Diversity requirements: 29 credits  
Whenever possible, these courses should be completed within the first 60 credits.

Scientific Analysis; Social Scientific Analysis; The Contemporary World; Textual, Aesthetic, and Linguistic Analysis; Pluralism and Diversity requirements: 29 credits  
Whenever possible, these courses should be completed within the first 60 credits.

1. Scientific Analysis:  (11 credits)  
a. Science and Technology: (8 credits)  
A one-year science sequence chosen from the list of courses below:  
AST 120 Space Science I  
AST 160 Space Science II  
BIO 170/171 General Biology I/Laboratory  
BIO 180/181 General Biology II/Laboratory  
CHM 141/121 General Chemistry I/Laboratory  
CHM 142/127 General Chemistry II/Laboratory
PHY 120/121 General Physics I/Laboratory
PHY 160/161 General Physics II/Laboratory
b. Mathematics: (3 credits)*
*Fulfilled in the pre-major requirements.
2. Social Scientific Analysis: (3-4 credits)
3. The Contemporary World: (4 credits)
4. Textual, Aesthetic, and Linguistic Analysis: (3-4 credits)
a. Literature: 200-level
b. Arts and Communications: 100-level
c. Arts and Communications: 200-level
5. Pluralism and Diversity Requirement: (0-4 credits)
6. Plus an additional 2-8 credits that are not science, mathematics, or computer science courses.
   See section on general education requirements for approved course lists and complete details.

Pre-Computer Science Sequence: 4 credits
CSC 126 Introduction to Computer Science 4 credits
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: 22-25 credits
MTH 229 Calculus Computer Laboratory
MTH 230 Calculus I with Pre-Calculus
MTH 232 Analytic Geometry and Calculus II
MTH 233 Analytic Geometry and Calculus III
or
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 10-13 credits
CSC 220 Computers and Programming 4 credits
MTH/
CSC 228 Discrete Mathematical Structures for Computer Science 4 credits
Four additional credits of science courses chosen from the Scientific Analysis category list of courses that provide the foundation for further study in the sciences or that are chosen from courses with these Scientific Analysis courses as prerequisites. 4 credits

Major Requirements: 52 credits
Students majoring in Computer Science must complete:
CSC 326 Information Structures 4 credits
CSC 330 Object-Oriented Software Design 4 credits
CSC 332 Operating Systems I 4 credits
CSC/ ENS 346 Switching and Automata Theory 4 credits
CSC 347 Computer Circuits Laboratory 2 credits
CSC 382 Analysis of Algorithms 4 credits
CSC 430 Software Engineering 4 credits
CSC 446 Computer Architecture 4 credits
CSC 490 Seminar in Computer Science 2 credits
MTH 311 Probability Theory and an Introduction to Mathematical Statistics 4 credits
MTH 338 Linear Algebra 4 credits
Three courses chosen from the following, at least two of which must be a Computer Science course:
CSC 420 Concepts of Programming Languages 4 credits
CSC 421 Internet Data Communications and Security 4 credits
CSC 424 Database Management Systems 4 credits
CSC 432 Operating Systems II 4 credits
CSC 434 Compiler Construction 4 credits
CSC 435 Advanced Data Communications 4 credits
CSC/ ENS 462 Microprocessors 4 credits
CSC 470 Introductory Computer Graphics 4 credits
CSC 480 Artificial Intelligence 4 credits
CSC 482 Discrete Simulation 4 credits
CSC 484 Theory of Computation 4 credits
CSC/
MTH 335 Numerical Analysis 4 credits
MTH 337 Applied Combinatorics and Graph Theory 4 credits
MTH 339 Applied Algebra 4 credits
MTH 350 Mathematical Logic 4 credits
MTH 370 Operations Research 4 credits
MTH 410 Statistics 4 credits
A grade of C or above in all CS courses that are prerequisites for CS courses in the Major Requirements. Students will be allowed to repeat courses, if necessary.

Electives: 0-4 credits
Total Credits Required: 124

Minor
Prerequisites or corequisites: MTH 123 and
CSC 126 Introduction to Computer Science 4 credits
CSC 220 Computers and Programming 4 credits
CSC/
MTH 228 Discrete Mathematical Structures 4 credits

Requirements:
Students with a science major are strongly urged to take MTH 335 or ENS 336; students with a business major are strongly urged to take MTH 231 or MTH 221.

Computer Science minor requirements can be met by completion of any one of the following sequences:

1. Computer Science minor sequence for students with an interest in computer engineering:
   CSC 326 Information Structures 4 credits
   CSC 332 Operating Systems I 4 credits
   CSC 435 Advanced Data Communications 4 credits
   CSC 446 Computer Architecture 4 credits

2. Computer Science minor sequence for students with an interest in applications programming:
   CSC 326 Information Structures 4 credits
   CSC 330 Object-Oriented Software Design 4 credits
   CSC 424 Database Management Systems 4 credits
and one course chosen from the following list: 4 credits
CSC 332 Operating Systems I
CSC 420 Concepts of Programming Languages
CSC 430 Software Engineering
CSC 435 Advanced Data Communications
CSC 470 Introductory Computer Graphics
CSC 480 Artificial Intelligence

Courses
The courses in computer science are listed below. Students should consult a computer science adviser before registering for courses. CSC 100 Computers and Society, and CSC 102 Computing for Today are general introductory courses in computers. They are not credited toward the major. CSC 126 Introduction to Computer Science is the introductory course in the Associate's degree Computer Technology program and in the Bachelor's degree program. It is designed for students who have completed MTH 025 or 030 or the equivalent. CSC 270 Introduction to Scientific Computing 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, 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.

CSC 112 Introduction to Word Processing
1 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 speller and the 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 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. Pre- or corequisite: MTH 123

CSC 116 Introduction to Database
1 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 118 Introduction to Spreadsheets
1 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 122 Computer and Windows
1 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, screen savers, 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 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. For students who plan to pursue a degree program in computer science. Pre- or corequisite: MTH 123 or MTH 130 or MTH 230 or MTH 231 or MTH 235

CSC 135 Introduction to Information Systems
2 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 205 Basic Desktop Publishing
1 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-ready 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 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. 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. Prerequisite: CSC 126 with a grade C or better (not open to students who had a C or better in CSC 310).
CSC 220  Computers and Programming
3 class hours, 3 laboratory hours; 4 credits
Binary and hexadecimal number systems, computer structure, machine language, instruction formats and execution, addressing techniques, and digital representation of data. Computer systems organization, symbolic coding and assembly systems, programming techniques, program segmentation and linkage. Students will complete computer projects in machine language and assembly language.
Prerequisite: A grade of C or above in either CSC 126 or 270

CSC 228  Discrete Mathematical Structures for Computer Science
(Also MTH 228)
3 class hours, 3 laboratory hours; 4 credits
Prerequisite: A grade of C or above in either CSC 126 or 270; MTH 123 or MTH 130 or MTH 230 or MTH 231 or MTH 235

CSC 270  Introduction to Scientific Computing
6 hours; 4 credits
Programming elements: operators, flow control, repetition, selection, logical conditions, arrays, data import, vectors, matrices, functions. Introduction to numerical techniques using scientific software: graphing, integration, roots of equations, linear equations, eigenvectors, eigenvalues, interpolation, signal processing.
Not open to students who have successfully completed CSC 120 or CSC 126.
Prerequisite: MTH 231

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.
Prerequisite: CSC 126

CSC 326  Information Structures
3 class hours, 3 laboratory hours; 4 credits
Organization and processing of various types of information. Storage allocation techniques. Linear list structures including stacks and queues, deques, rings, and linked arrays. Tree structures and multi-linked structures. Advanced sorting and searching techniques. Scatter storage techniques. Recursive programming.
Prerequisites: CSC 310 or CSC/MTH 228 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; 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.
Prerequisite: CSC 326

CSC 332  Operating Systems I
5 class hours, 3 laboratory hours; 4 credits
Prerequisites: CSC 220 or ENS 362, and CSC 326

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 310

CSC 346  Switching and Automata Theory
4 hours; 4 credits
Prerequisites: CSC 220 and CSC 326 or CSC 270 and ENS 320 or CSC 220 and CSC/MTH 228 and ELT 240

CSC 347  Computer Circuits Laboratory
4 hours; 2 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.
Prerequisite: 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 and MTH 311

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 421 Internet Data Communications and Security
3 class hours, 3 laboratory hours; 4 credits
Designed to present a thorough understanding of the Internet structure, its functionality, and the technology. This course covers networks and how they work; Internet protocols; Internet control protocols; Internet and www; Internet clients and servers and their main features; Internet applications and related protocols; Internet and www security; encryption; public-key cryptography; authentication, and IP security.
Prerequisite: 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

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

CSC 432 Operating Systems II
4 hours; 4 credits
Concurrent processing. Linear and tree-structured address space. Resource allocation for multiprogramming. Queuing and network control policies. Protection mechanisms. Case studies of various state-of-the-art systems and implementation of a small operating system.
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 350 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 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, multiprocessor, and networking. Digital communications. Input/Output systems; direct memory access.
Prerequisite: CSC 346 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 Microprocessors
(Also ENS 362)
2 class hours, 4 laboratory hours; 4 credits
Introduction to 8086 architecture using the SDK-86 single-board computer. Interfacing of programmable chips including the 8255 PTO, 8259 Interrupt controller, 8254 counter/timer, 8279 keyboard/display controller, and ADC 0804 analog to digital converter. Testing and debugging of assembler language programs to exercise the interface. Troubleshoot with oscilloscope and debugger.
Prerequisites: ENS 220 and ENS 221, or CSC 346 and CSC 347

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, shadowing, reflection and surface texturing).
Prerequisite: CSC 326

CSC 477 Artificial Intelligence
4 hours; 4 credits
Prerequisite: CSC 326
**CSC 482 Discrete Simulation**  
4 hours; 4 credits  
Prerequisite: 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 270) and MTH 339 and (MTH 233 or 236)

**CSC 490 Seminar in Computer Science**  
2 hours; 2 credits  
Invited speakers 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.  
Prerequisites: Computer Science major with senior standing

**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.

**General Education Requirements for the BS**  
**ENG 111, ENG 151, COR 100, PED 190: 12 credits**  
Whenever possible, these four courses should be completed within the first 36 credits.

**Scientific Analysis; Social Scientific Analysis; The Contemporary World; Textual, Aesthetic, and Linguistic Analysis; Pluralism and Diversity requirements: 21-27 credits**  
General education requirements are the same as for other BS degrees.

**Pre-Computer Science Sequence: 4 credits**  
**CSC 126 Introduction to Computer Science**  
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: 18-21 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: 10-13 credits  
  - MTH 230 Calculus I with Pre-Calculus  
  - MTH 232 Analytic Geometry and Calculus II  
  - MTH 233 Analytic Geometry and Calculus III  
  - 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  
- MTH 229 Calculus Computer Laboratory  
- MTH 235 Accelerated Calculus I  
- MTH 236 Accelerated Calculus II  
- MTH 229 Calculus Computer Laboratory  

**Major Requirements: 48 credits**  
**Computer Science: 24 credits**  
- CSC 326 Information Structures 4 credits  
- CSC 330 Systems Programming: Concepts of Software Design 4 credits  
- CSC/ENS 346 Switching and Automata Theory 4 credits  
- CSC 382 Analysis of Algorithms 4 credits  
- CSC 420 Concepts of Programming Languages 4 credits  
- Any one from the following group of advanced computer courses:  
  - CSC 424 Database Management Systems  
  - CSC 480 Artificial Intelligence  
  - CSC 482 Discrete Simulation 4 credits  

**Mathematics: 24 credits**  
- 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:  
  - MTH 330 Applied Mathematical Analysis I  
  - MTH 337 Applied Combinatorics and Graph Theory  
  - MTH 341 Advanced Calculus I  
  - MTH 350 Mathematical Logic  
  - MTH 370 Operations Research  
  - MTH 410 Mathematical Statistics I 8 credits  

**Electives: 8-20 credits**  
**Total Credits Required: 120**

**Liberal Arts and Sciences Requirement**  
All courses designated CSC are non-liberal arts and sciences.  
(Courses are listed under Computer Science and Mathematics.)
Eleven credits to be selected from the following courses:

- DAN 101 Contemporary Dance Technique I 2 credits
- DAN 111 Choreography I 3 credits
- DAN 184 Afro-Haitian Rhythms I 2 credits

Eleven credits to be selected from the following courses:

- DAN 112 Choreography II 3 credits
- DAN 150 Dance History: Twentieth Century 3 credits
- DAN 171 Improvisation I 2 credits

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.

### Courses

**DAN 101 Contemporary Dance Technique I**

3 hours; 2 credits

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.

Prerequisite for DAN 102: DAN 101 or permission of the instructor

**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 for DAN 112: DAN 111 or permission of the instructor

**DAN 122 Black Dance Workshop**

(Also AFA 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**

(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.)

**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
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 for DAN 172: DAN 171 or permission of the instructor

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
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 for DAN 185: DAN 184

DAN 201 Contemporary Dance Techniques III
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 for DAN 201: DAN 102 or permission of the instructor; for DAN 202: DAN 201 or permission of the instructor

DAN 211 Choreography III
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 112 or permission of the instructor

DAN 231 Fundamentals of Ballet I
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
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.

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 David Goode, Department of Sociology, Anthropology, and Social Work; Psychology/Sociology, Anthropology, and Social Work Building (4S), Room 236
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.

Requirements:
- SWK 107 Introduction to Developmental Disabilities 3 credits
- PSY 211 Methods of Applied Behavioral Analysis 4 credits
- SOC 350 Psychosocial Aspects of Disabilities 4 credits
- ASL 113 American Sign Language I 5 credits
- EDP 220 Special Education Needs of the Developmentally Disabled 4 credits
- EDP 310 Survey of Exceptional Children I 4 credits
- EDP 311 Survey of Exceptional Children II 4 credits
- NRS 230 Health in Persons with Developmental Disabilities 4 credits
- SWK 440 Internship in Developmental Disabilities 4 credits

DRAMATIC ARTS
(Bachelor of Science, Minor)
Department of Performing and Creative Arts and Department of English, Speech, and World Literature
Coordinator: Assistant Professor Maurya Wickstrom, Department of Performing and Creative Arts, Center for the Arts (1P), Room 203F
The program in dramatic arts provides the opportunity to earn a Bachelor of Science degree in Dramatic Arts, with a focus on theatrical production and techniques including a study of dramatic literature. Students whose primary interest is in dramatic literature are referred to the program that leads to the Bachelor of Arts degree in English with a concentration in dramatic literature. (See section on English.)
Dramatic Arts (BS)
General Education Requirements
ENG 111, ENG 151, COR 100, PED 190: 12 credits
Whenever possible, these four courses should be completed within the first 36 credits.

Scientific Analysis; Social Scientific Analysis; The Contemporary World; Textual, Aesthetic, and Linguistic Analysis; Pluralism and Diversity requirements: 28-47 credits
Whenever possible, these courses should be completed within the first 60 credits.
1. Scientific Analysis: (11 credits)
   a. Science and Technology: (8 credits)
   b. Mathematics: (3 credits)
2. Social Scientific Analysis: (7-8 credits)
3. The Contemporary World: (4 credits)
4. Textual, Aesthetic, and Linguistic Analysis: (6-8 credits)
   a. Literature: 200-level
   b. Arts and Communications: 100-level
   Arts and Communications: 200-level
5. Pluralism and Diversity Requirement: (0-4 credits)
6. Foreign language: (0-12 credits)
See section on general education requirements for approved course lists and complete details.

Major Requirements: 52 credits

<table>
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<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>DRA 110 Acting I</td>
<td>3</td>
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<tr>
<td>DRA 131 Introduction to Technical Theater</td>
<td>3</td>
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<tr>
<td>DRA 210 Acting II</td>
<td>3</td>
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<tr>
<td>DRA 235 Introduction to Stage Management</td>
<td>3</td>
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<tr>
<td>DRA 260 History of Theater I</td>
<td>4</td>
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<tr>
<td>DRA 261 History of Theater II</td>
<td>4</td>
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<tr>
<td>DRA 320 Directing I</td>
<td>3</td>
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<tr>
<td>DRA 372 Theater Practicum</td>
<td>4</td>
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<tr>
<td>DRA 597 Internship</td>
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Four courses in dramatic literature at the 300 level or above: 16 credits
Electives in DRA or cross-listed courses: 6 credits

Note: DRA 100 no longer qualifies as a course applicable toward the major requirements. It is, however, recommended as an introduction to the major.

Electives: 9-28 credits
Total Credits Required: 120

Honors
To graduate with Honors in Dramatic Arts a student must have a 3.5 grade point average in dramatic arts courses and must complete a creative project in acting, directing, design, or in the writing of plays or criticism.

Minor
Prerequisite Courses: 3-6 credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>DRA 100 Introduction to Theater</td>
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<tr>
<td>DRA 110 Acting</td>
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<td>or</td>
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<tr>
<td>DRA 131 Introduction to Technical Theater</td>
<td>3</td>
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</table>

Minor Requirements: 14 credits
At least six credits in courses in dramatic arts chosen from DRA 210, 213, 214, 220, 230, 231, 232, 233, 310, 320, 370, 371, 410, 420.
At least eight credits in dramatic literature courses chosen from DRA 260, 261, 460, or DRA courses that are cross-listed with English (ENL), French (FRN), or Spanish (SPN) courses.

Courses

**DRA 100 Introduction to Theater**
4 hours; 3 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 modest expense for tickets. (arts & com)

**DRA 101 Exploring the New York Theater Scene**
4 hours; 3 credits
Students will see at least five productions, on and off Broadway, and will examine them in order to gain an understanding of what comprises the theater experience so that critical standards may be developed. Students are expected to purchase tickets. See the Schedule of Classes for estimated cost of theater tickets.

**DRA 110 Acting I**
4 hours; 3 credits
A basic approach to acting for stage, film, and television.

**DRA 131 Introduction to Technical Theater**
4 hours; 3 credits
Survey of different kinds of theaters, their physical plants, and production techniques. Construction and handling of scenery, properties, and lighting equipment.

**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 credits
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 Corequisite: Drama 141 and approval of either the instructor or the Performing and Creative Arts Department

**DRA 202 African American Drama**
(Also AFA 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.
DRA 205  African American Musical Theater  
(Also AFA 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 210  Acting II  
4 hours; 3 credits  
Exercises and improvisations, with an emphasis on scene study.  
Prerequisite: DRA 110

DRA 213  Movement for the Theater  
4 hours; 3 credits  
Techniques to assist the actor in exploring the elements of movement and mime. This course may be repeated for credit.  
Prerequisite: ENG 111

DRA 214  Voice and Diction for the Theater  
4 hours; 3 credits  
The development and training of the actor's voice as a flexible instrument. Work on individual problems in diction in order to develop an effective self-expression on the stage. This course may be repeated for credit.  
Prerequisite: DRA 100 or 110 or permission of the instructor

DRA 215  Modes of Drama  
(Also ENH 212)  
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.  
Prerequisite: ENG 111, ENG 151

DRA 216  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 220  Play Production  
4 hours; 3 credits  
The role of the producer in the management of non-profit and commercial theaters. A consideration of theater space, budget, organization of the production staff, front of the house and backstage management.

DRA 230  Set Design for the Theater  
4 hours; 3 credits  
Principles, materials, and practices of set design, with an emphasis on its contribution to various theatrical styles and periods.  
Prerequisites: ENG 111 and DRA 100 or DRA 131 or permission of the instructor

DRA 232  Costume Design for the Theater  
4 hours; 3 credits  
Principles, materials, and practices of the design of costumes and theatrical properties, with an emphasis on their contributions to various theatrical styles and periods.  
Prerequisite: ENG 111

DRA 233  Introduction to Design for the Theater  
4 hours; 3 credits  
Theory and practice of designing stage settings, lighting, and costumes. Visits to the theater and to professional scene shops.  
Prerequisite: ENG 111

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 240  Theater for Young People  
4 hours; 3 credits  
Theory and methods of producing theater for young people. An examination of appropriate dramatic literature, as well as the problems of play production for and with children and adolescents. Creative drama as an educational process will be viewed in relationship to theater for young people as an aesthetic product. Students will develop dramatic material in class for presentation.

DRA 260  History of Theater I  
4 hours; 4 credits  
A critical history of theater and theatrical style from prehistory through Shakespeare and his contemporaries. Aspects to be covered include the ritual origins of drama, the drama of ancient Greece and Rome, the Middle Ages, and the English and European theater of the 16th and 17th centuries. The primary emphasis will be on the total theatrical context in which plays were written and produced (the social and cultural environment, the playhouse, the prevailing theatrical styles of the time). The secondary emphasis will be the reading of major dramatic texts that help to illustrate that development.  
Prerequisite: ENG 111

DRA 261  History of Theater II  
4 hours; 4 credits  
A critical history of theater and theatrical style from the re-opening of the English theater in 1660 through American drama of the 1960s. Aspects to be covered include the English Restoration and 18th century theater, European theater of the 18th and 19th centuries, the theater of Asia, and modern European and American theater. The primary emphasis will be on the total theatrical context in which plays were written and produced (the social and cultural environment, the playhouse, the prevailing theatrical styles of the time). The secondary emphasis will be the reading of major dramatic texts that help to illustrate that environment.  
Prerequisite: ENG 111
DRA 270 Performance I
4 hours; 3 credits
Performance of a play. Students will be involved in various aspects of theatrical presentation.
Prerequisite: Permission of the instructor

DRA 271 Performance II
4 hours; 3 credits
Performance of a play. Students will be involved in various aspects of theatrical presentation.
Prerequisite: Permission of the instructor

DRA 272 Performance Histories
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.
Prerequisites: ENG 151 and DRA 216 (with a grade of B or better for Drama majors)

DRA 300 Topics on Productions
4 hours, 3 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, and students who are not acting in the production will have the opportunity to attend rehearsals and engage in dialogue with the actors and director.
Prerequisites: ENG 151 and DRA 216 (with a B or better for Drama majors)

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 320 Directing I
4 hours; 3 credits
Basic principles of directing. The function of the director in the production relating to actors, designers, the producer, stage manager, and house manager. Students direct scenes and produce a final workshop performance.
Prerequisites: DRA 110, and DRA 131 or DRA 233, ENG 111

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.
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 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

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

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

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

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

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

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

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
DRA 370 Theater Workshop I
4 hours; 3 credits
Projects in acting and directing are developed by members of the workshop. An effort will be made to have a current playwright's workshop contribute material for the course.
Prerequisite: DRA 110 or permission of the instructor

DRA 371 Theater Workshop II
4 hours; 3 credits
Projects in acting, directing, and playwriting, representing various theatrical styles, will be developed by members of the workshop.
Prerequisite: DRA 370 or permission of the instructor

DRA 372 Theater Practicum
4 hours; 4 credits
Participation in acting or production roles in a production sponsored by the program in Dramatic Arts. Students are to be evaluated by the faculty production coordinator. Students will keep a journal to be submitted at the conclusion of the production. This course may be repeated for credit.

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)
Prerequisite: FRN 313 or equivalent for those doing readings and assignments in French; ENG 151 for those doing readings and assignments in English

DRA 460 Dramatic and Theatrical Criticism
4 hours; 4 credits
A survey of theories of drama and theater and of the development of dramatic and theatrical criticism from their origins in such writers as Aristotle and Horace to the present.
Prerequisites: At least two 300-level courses in dramatic literature or English or permission of the instructor

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, Bueno Vallejo, Alfonso Sastre, Carlos Muniz, Lauro Olmo, Arrabal, Antonio Gala, and others. (literature)
Prerequisite: SPN 313 or equivalent for those doing readings and assignments in Spanish; ENG 151 for those doing readings and assignments in English

Dramatic Arts students should also consider:
ENL 272 Playwriting I, ENL 373 Playwriting II, and ENL 435 Playwright's Workshop.

ECONOMICS
(Bachelor of Arts, Bachelor of Science, Business Specialization, Finance Specialization, Minor)
Department of Political Science, Economics, and Philosophy
Chair: Associate Professor Vasilios Petratos, History/Political Science, Economics, and Philosophy Building (2N), Room 224
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 bachelor's degree level or in preparation for graduate study of economics. A business specialization and a finance specialization are available for interested students.

Economics (BA)
General Education Requirements for the BA
ENG 111, ENG 151, COR 100, PED 190: 12 credits
Whenever possible, these four courses should be completed within the first 36 credits.

Scientific Analysis; Social Scientific Analysis; The Contemporary World; Textual, Aesthetic, and Linguistic Analysis; Pluralism and Diversity requirements: 28-47 credits
Whenever possible, these courses should be completed within the first 60 credits.
1. Scientific Analysis: (11 credits)
   a. Science and Technology: (8 credits)
   b. Mathematics: (3 credits)
2. Social Scientific Analysis: (7-8 credits)
3. The Contemporary World: (4 credits)
4. Textual, Aesthetic, and Linguistic Analysis: (6-8 credits)
   a. Literature: 200-level
   b. Arts and Communications: 100-level
5. Pluralism and Diversity Requirement: (0-4 credits)
6. Foreign Language: (0-12 credits)
See section on general education requirements for approved course lists and complete details.

Pre-Major Requirement: 3 credits
ECO 101 Introduction to Economics 3 credits

Major Requirements: 28-32 credits
(28-32 credits include Computer Proficiency Requirement)
28 credits in economics courses at the 200, 300, or 400 level or above including:
ECO 210 Price Theory 4 credits
ECO 212 Income and Employment Theory 4 credits
ECO/ MGT 230 Introduction to Economic and Managerial Statistics 4 credits
ECO 323 Introduction to Econometrics or
ECO 326 Introduction to Mathematical Economics 4 credits
And at least two additional 300- or 400-level economics courses 8 credits
The remaining four economics credits may be at the 200, 300, or 400 level.
Computer Proficiency Requirement: 0-4 credits
In addition, Economics majors must demonstrate computer proficiency in one of the following ways:
1. Successful completion of any course in computer science.
3. 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: 22-52 credits
Total Credits Required: 120

Economics (BS)
General Education Requirements for the BS
ENG 111, ENG 151, COR 100, PED 190: 12 credits
Whenever possible, these four courses should be completed within the first 36 credits.

Scientific Analysis: Social Scientific Analysis; The Contemporary World; Textual, Aesthetic, and Linguistic Analysis; Pluralism and Diversity requirements: 21-27 credits
Whenever possible, these courses should be completed within the first 60 credits.
1. Scientific Analysis: (11 credits)
   a. Science and Technology: (8 credits)
   b. Mathematics: (3 credits)
2. Social Scientific Analysis: (3-4 credits)
3. The Contemporary World: (4 credits)
4. Textual, Aesthetic, and Linguistic Analysis: (3-4 credits)
   a. Literature: 200-level
   b. Arts and Communications: 100-level
   c. Arts and Communications: 200-level
5. Pluralism and Diversity Requirement: (0-4 credits)
See section on general education requirements for approved course lists and complete details.

Pre-Major Requirements, 3 credits, and Major Requirements, 28-32 credits, including Computer Proficiency Requirement, are the same as those listed for the BA.

Specializations
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 Political Science, Economics, and Philosophy and the Department of Business. The specialization adds courses useful to students who plan to pursue careers in business or finance and/or continue their education.

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 240  Managerial Finance I  3 credits

Finance Specialization: 19 credits
The Finance Specialization has the following requirements within the 28-32 credits required for the major:
Four credits at the 200 level:
    ECO/  
    FNC 214  Money and Banking
Eight credits in 300-level economics courses chosen from the following:
    ECO/  
    FNC 315  Monetary Theory and Policy
    ECO 336  Industrial Organization
    ECO/  
    FNC 360  Investment Analysis
    ECO/  
    FNC 370  International Finance
    ECO 387  Managerial Economics

Electives: 23-42 credits
Total Credits Required: 120

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
Prerequisite Course:
    ECO 101  Introduction to Economics  3 credits
Minor Requirements:
    ECO 210  Price Theory  4 credits
    ECO 212  Income and Employment Theory  4 credits
    ECO 230  Introduction to Economic and Managerial Statistics  4 credits
One 300- or 400-level course in economics  4 credits

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 as economic approaches to social problems. (social science)
Prerequisite: MTH 020 or an appropriate score on the CUNY Mathematics Assessment Test
ECO 210  Price Theory
4 hours; 4 credits
Examination of the workings of the price mechanism by which a free enterprise system solves the basic economic problems of production, distribution, and optimum methods of production. The roles of household and firm in determining prices under varying market structures. Development of a theoretical approach as the foundation for more advanced work in economics. Application of analytical tools to contemporary problems.
Prerequisites: ECO 101 and MTH 025 or MTH 030 or an appropriate score on the CUNY Mathematics Assessment Test, or permission of the instructor.

ECO 212  Income and Employment Theory
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 210 and MTH 025 or MTH 030 or equivalent score on the CUNY Mathematics Assessment Test, or permission of the instructor.

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 C/ACT Writing Skills Test and C/ACT Reading Sample Test or equivalent and ECO 101

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 C/ACT Writing Skills Test and C/ACT Reading Sample Test or equivalent and ECO 101

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 CUNY/ACT Writing Skills Test and CUNY/ACT Reading Sample Test, and ECO 101, and MTH 121 or 123, and BUS 150 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 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: MTH 030 or MTH 121 or MTH 123 or equivalent, and ACC 114, and ECO 101

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.
(continuation:)
Prerequisites: ECO 101, 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. (continuation:)
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. (continuation:)
Prerequisites: ENG 151, COR 100

ECO 253  United States Economic History
(Also HST 253)
4 hours; 4 credits
The growth of the American economy; analysis of the components of growth: capital, labor, and government.
Prerequisites: ECO 101, any college-level history course, and ENG 111
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. (p&d)
Prerequisites: ECO 101, 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)
Prerequisites: ECO 101, ECO 101, COR 100

ECO 260 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 101 and ENG 111

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 276 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

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)
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 292 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: ENG 111, ECO 101 or permission of the instructor

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 210, ECO 212, 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 derivations.
Prerequisites: ECO 101 and ECO/MGT 230 or permission of the instructor

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, the firm, and the consumer. The uses and misuses of the mathematical method in economics will also be discussed.
Prerequisites: ECO 101, MTH 121 or MTH 123 or the equivalent, or permission of the instructor
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 or permission of the instructor

ECO 330  Public Finance
4 hours; 4 credits
Analysis of 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
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; BUS 160 or any two POL courses

ECO 333  Economics and Philosophy
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 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

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 quasi-judicial interpretation relevant to each area will be explored.
Prerequisite: ECO 210

ECO 345  Managerial Finance II
4 hours; 4 credits
Working capital management, current asset management, sources of short-term financing, financial structure and use of leverage, valuation and rate 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 and at least two other courses in the social sciences

ECO 360  Investment Analysis
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.
Prerequisite: ECO/FNC 345

ECO 370  International Finance
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 and underdeveloped nations, and current institutional changes designed to meet them.
Prerequisite: FNC/ECO 240

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

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 210 and ECO 212, or permission of the instructor

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 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 and 212, or permission of the instructor

ECO 490 Senior Seminar in Political Science, Economics, and Philosophy
(Also POL 490 and PHL 490)
4 hours; 4 credits
Selected topics in which ideas and approaches from economics, political science, and philosophy either mesh or collide will be explored. Required of all students expecting to graduate with Honors in Political Science, Economics, or Philosophy, 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
Language Requirement
Beginning 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 modern language course at the 114 level or by passing the Department of Modern Languages proficiency examination at that same level. For information on the department proficiency examination, please contact the coordinator of the Modern Languages 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
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: 34-36 credits

Education Sequence: 30 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 encouraged to begin the early childhood sequence in the sophomore year. To complete the sequence in two years, it must be begun by the beginning of the junior year. Students must have a minimum cumulative average of 2.75 to be admitted to all early childhood courses.

<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 Education</td>
<td>3</td>
</tr>
<tr>
<td>EDC 216</td>
<td>Social Foundations of Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>EDC 217</td>
<td>Affective Development of the Child</td>
<td>3</td>
</tr>
<tr>
<td>EDC 218</td>
<td>Language Development in Young Children and the Educative Process</td>
<td>3</td>
</tr>
<tr>
<td>EDC 310</td>
<td>The Teaching of Reading and Writing</td>
<td>3</td>
</tr>
<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>
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<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>
</tr>
<tr>
<td>EDC 440</td>
<td>Student Teaching in Kindergarten and Early Primary Classrooms</td>
<td>4</td>
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</tbody>
</table>

Childhood Education
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).

Academic Major: 34-36 credits

Education Sequence: 32 credits
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. The sequence in childhood education 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. Students must have a minimum cumulative average of 2.75 to be admitted to all childhood education courses.

<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>
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</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>
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<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 in Elementary Education</td>
<td>2</td>
</tr>
</tbody>
</table>

Adolescence Education
This program provides the academic course content necessary for certification as a teacher at the adolescence level in the fields of English, foreign languages, mathematics, science, and social studies.

Academic Major
Students must complete the requirements of a major in the field in which they plan to teach. These include English, Spanish, mathematics, biology, chemistry, and social studies disciplines.

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.

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. 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. Students must have a minimum cumulative average of 2.75 to be admitted to all adolescence education courses.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course 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>
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</tbody>
</table>
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 ten hours of fieldwork prior to student teaching.  
Prerequisites: ENG 111 and ENG 151, and a GPA of 2.75

EDC 216  Social Foundations 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 initial understanding of how values, attitudes, and structures in society as a whole influence the education of young children.  
Prerequisites: ENG 111 and ENG 151, and a GPA of 2.75

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 2.75 or above

EDC 218  Language Development in Young Children and the Educational Process  
3 hours; 3 credits  
Theory and research in language development and the processes of language acquisition to inform program planning and development in inclusive educational settings. Students learn how to create, manage, and develop preschool curriculum areas such as dramatic play, block building, expressive arts, puzzles and manipulatives, nature study, and outdoor play to facilitate language acquisition and development. The course provides students with a range of alternative teaching strategies to meet the needs of linguistically diverse children.  
Prerequisites: EDC 215 and EDC 216, or EDE 200 and EDE 260, and a GPA of 2.75 or above  
Corequisite: EDC 350

EDC 221  The Teaching of Reading and Writing  
3 hours; 3 credits  
An examination of the teaching of reading and writing within a developmental framework and introduction to programs, practices, and materials of reading/writing instruction in diverse and inclusive settings. The course provides students with a range of alternative teaching strategies for children with reading and writing delays. The course also examines software in reading and writing for its usefulness in assessment and instruction.  
Prerequisites: EDC 215 or EDE 200; EDC 216 or EDE 260; EDC 218; EDC 350; and a GPA of 2.75 or above

EDC 222  Music in Early Childhood  
3 hours; 3 credits  
Learn to develop basic musical understanding and skills and music appreciation in young children through participation in singing, ear training, rhythmic movement, and playing musical instruments. Students learn to select materials and develop activities that are developmentally appropriate for the needs of young children with an emphasis on creativity and helping students to develop a culturally diverse musical repertoire. A variety of media and computer technologies are explored to determine how they can enhance musical experience. This course includes five hours of fieldwork.  
Prerequisite: EDC 215 or EDE 200; EDC 216 or EDE 260, EDC 218; EDC 350; and a GPA of 2.75 or above

EDC 340  Workshop in Mathematics and Science for Early Childhood  
3 hours; 3 credits  
Techniques in building the child's knowledge of properties of objects in the environment, concepts of class inclusion, seriation, and numbering, and the structuring of space and time. Students learn a range of strategies used by children with special needs. Informal and formal assessment tools are presented as well as classroom management strategies for whole class and small group
instruction. Examination of software in early childhood mathematics and science instruction for its usefulness and developmental flexibility.

Prerequisites: EDC 215 or EDE 200; EDC 216 or EDE 260; EDC 218; EDC 350, MTH/SLS 217; and a GPA of 2.75 or above

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 Language Development through an Integrated Curriculum. 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 participate in an observational 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. Grade Pass (P) or Fail (F).

Prerequisites: EDC 215, EDC 216, EDC 218; and a GPA of 2.75 or above

EDC 360  Workshop in Social Studies  
3 hours; 3 credits
An investigation of how multicultural imaginative historical narratives can be used as an ongoing structure within early primary grades to foster students’ intellectual development in diverse and inclusive educational settings. To create these instructional materials, students will use the Internet and other media for educational applications. Formal and informal assessment tools as well as classroom management strategies for whole class and small group interaction are presented. Particular attention is paid to fostering community relations. The course will offer students opportunities to develop the skills of history storytelling and facilitating discussions that provoke children’s imaginative and problem solving responses. Opportunities will also be given to develop history storytelling units that offer young children multiple media to represent thought. Workshops in creative dramatics and the plastic arts are explored to promote young children’s expressiveness and creativity. This course includes five hours of fieldwork.

Prerequisites: EDC 215 or EDE 200; EDC 216 or EDE 260; EDC 218; EDC 350; and a GPA of 2.75 or above

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 2.75 or above

EDC 440  Student Teaching in Kindergarten and Early Primary Classrooms  
4 credits
Practice and problem solving in kindergarten and early primary classrooms. Designed for public schools. Students will be in attendance at the assigned school 25 hours a week for a complete semester for a minimum of 350 hours (175 hours in a kindergarten classroom and 175 hours in an early primary grade classroom). Students will be observed provisioning and interacting with small and larger groupings of children. 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. Grade Pass (P) or Fail (F).

Prerequisites: EDC 310, EDC 340, and EDC 440; SLS 218 and SLS 261. In addition, students must meet each of the following criteria:
1. An overall grade point average of 2.75.
2. A grade point average of 2.75 in all education courses.
3. A minimal grade of C in all education courses.

EDC 441  Student Teaching in Preschool and Kindergarten Classrooms  
6 credits
Practice and problem solving in preschool and kindergarten classrooms. Designed for preschool and daycare. Students will be in attendance at the assigned school three days a week for a full semester. 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. Grade Pass (P) or Fail (F).

Prerequisites: EDC 320, EDC 330, and EDC 440; SLS 218 and SLS 261. In addition, students must meet each of the following criteria:
1. An overall grade point average of 2.75.
2. A grade point average of 2.75 in all education courses.
3. A minimal grade of C in all education courses.

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 hours; 4 credits
The social, political, and economic forces that influence the work of educators and the lives of children and their families and a historic overview of the philosophies and goals of elementary education. Students analyze the legal and judicial landmarks, social policies, and technological advances that affect the schools and address the needs of our diverse population. Students spend ten (10) hours in varied education environments examining the relationship between theory and practice. (L&SS)

Prerequisites: Sophomore standing or six credits in the social sciences and/or philosophy, ENG 111, ENG 151, and a GPA of 2.75
EDE 260  Psychological Foundations of Education  
4 hours; 4 credits  
An examination of the developing child from preschool through early adolescence. Major theories of development and the interaction between cognitive, social, emotional, and physical development are emphasized. Children with different abilities and with special needs are discussed, as are cultural, gender, and socioeconomic factors. Ten (10) hours of fieldwork in varied educational settings will increase students’ awareness of individual differences and their implications for classroom learning. (IA&S)  
Prerequisites: Sophomore standing including three credits in psychology, ENG 111, ENG 151, and a GPA of 2.75

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 (10) 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 200, and a GPA of 2.75 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 thirty-six (36) hours provides opportunities to plan instruction, enhance communication skills in the disciplines, and connect theory to practice. Cannot be taken with EDE 303.  
Prerequisite: EDE 301 and a GPA of 2.75 or above

EDE 303  Mathematics, Science, and Music in Elementary Education  
3 lecture hours, 6 field hours; 6 credits  
An examination of the structures and concepts of mathematics, science, and music 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 differing student needs are explored. Issues addressed include curriculum development, resources and materials, management, standards, assessment, and the educational application of technology. A fieldwork component of thirty-six (36) hours provides opportunities to plan instruction, enhance communication skills in the disciplines, and connect theory to practice. Cannot be taken with EDE 302.  
Pre- or corequisites: MTH 217/SLS 217, EDE 200, EDE 260, junior standing, and a GPA of 2.75 or above

EDE 400  Student Teaching in Elementary Education  
6 credits  
Practice and problem solving in student teaching in elementary schools. Students are required to be in attendance at an assigned school full-time (8:30am-3:00pm) five days per week. Students will teach in grades 1-5 for part of the semester and in grades 4-6 for part of the semester. 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. To be taken concurrently with EDE 402. Graded Pass (P) or Fail (F).  
Prerequisites: EDE 302 and EDE 303, SLS 218 and SLS 261. In addition, students must meet each of the following criteria:  
1. An overall grade point average of 2.75.  
2. A grade point average of 2.75 in all education courses.  
3. A minimal grade of C in all education courses.

EDE 402  Reflection and Analysis in Student Teaching in Elementary Education  
2 hours; 2 credits  
Student teachers reflect upon the educational philosophies they have studied and the methodologies 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 2.75 or above

EDP - Special Education

EDP 220  Special Educational Needs of the Developmentally Disabled  
4 hours; 4 credits  
(This course is not a part of the teacher education sequence.)  
This course examines current trends in providing special education services to individuals (preschool, school-age, adult) with developmental disabilities. The approach of the course will be to follow the process of assessment, instructional planning, instruction, and evaluation of instruction in each of four areas of developmental disabilities: sensory disabilities, physical disabilities, communication disabilities, and behavioral disabilities. While the emphasis of the course will be on understanding instructional techniques, stress will be placed on thorough record keeping to evaluate and validate instructional approaches.

EDP 310  Survey of Exceptional Children I  
4 hours; 4 credits

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. 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.
EDS - Secondary Education

EDS 201  Social Foundations of Secondary Education  
4 hours; 4 credits  
This course examines the historical, philosophical, and cultural roots of contemporary education. The issues of race, class, gender, ability, immigration, and language acquisition are examined for their impact on the learning of adolescents. The course deepens students' understanding of the power that social, political, and economic forces have on the work of teachers and on the lives of adolescents, families, and communities. Students spend fifteen (15) hours in diverse and inclusive educational environments examining the relationship between theory and practice. (LA&S)  
Prerequisites: Sophomore standing and a GPA of 2.75 or above

EDS 202  Psychological Foundations of Secondary Education  
4 hours; 4 credits  
This course examines major theories of preadolescent and adolescent development, with emphasis on implications for education. Major theories of development and the interaction between cognitive, emotional, and physical development are emphasized. Adolescents will be considered in the context of the larger community, with attention to language, culture, gender, and socioeconomic factors. Fifteen (15) hours of fieldwork in diverse and inclusive secondary educational settings increase the student's awareness of children with special needs and the implications for classroom learning. (LA&S)  
Prerequisites: Sophomore standing including three credits of psychology and a GPA of 2.75 or above

EDS 301-305  
Methods of teaching a content area. Students must complete one of the following methods courses. The methods course must coincide with the student's declared major.

EDS 301  The Teaching of Secondary School Curriculum in Social Studies  
4 hours; 4 credits  
The history, content, methods, and functions of social studies. Structures and concepts of the social studies disciplines are examined, particularly geography, economics, and political science. Issues of language and literacy acquisition related to the social studies are discussed. Students explore a range of alternative strategies and technologies used to address the linguistically diverse and adolescents with special needs. Students work on individual and group assignments to create specific curricula in social studies for children in grades 7-9 and 10-12. A fieldwork component of thirty-five (35) hours is included.  
Prerequisites: EDS 201, EDS 202, and a GPA of 2.75 or above  
Corequisite: EDS 307

EDS 302  The Teaching of Secondary School Curriculum in English  
4 hours; 4 credits  
Examination of language acquisition and development. Exploration in the teaching of reading and adolescent literature provides a basis for evaluating reading and learning activities appropriate for the linguistically diverse and for students' special needs. Students are exposed to a wide range of technologies and literature depicting multiple cultural settings. Students develop criteria useful for selecting books, programs, and Websites for the classroom. Students work on individual and group assignments to create specific curricula in English for children at the 7-9 and 10-12 levels. A fieldwork component of thirty-five (35) hours is included.  
Prerequisites: EDS 201, EDS 202, and a GPA of 2.75 or above  
Corequisite: EDS 307

EDS 303  The Teaching of Secondary School Curriculum in Mathematics  
4 hours; 4 credits  
Issues of teaching and learning mathematics are examined including curriculum, resources and materials, management, standards, assessment, and the educational 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 thirty-five (35) hours is included.  
Prerequisites: EDS 201, EDS 202, and a GPA of 2.75 or above  
Corequisite: EDS 307

EDS 304  The Teaching of Secondary School Curriculum in Science  
4 hours; 4 credits  
Issues of teaching and learning science are examined including curriculum, resources and materials, management, standards, assessment, 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 thirty-five (35) hours is included.  
Prerequisites: EDS 201, EDS 202, and a GPA of 2.75 or above  
Corequisite: EDS 307

EDS 305  The Teaching of Secondary School Curriculum in Foreign Language  
4 hours; 4 credits  
Issues of teaching and learning a foreign language are examined including curriculum, resources and materials, management, standards, assessment, 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 thirty-five (35) hours is included.  
Prerequisites: EDS 201, EDS 202, and a GPA of 2.75 or above  
Corequisite: EDS 307

EDS 307  Discovery Learning and Interdisciplinary Instruction  
4 hours; 4 credits  
Development of a conceptual understanding of 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 thirty-five (35) hour fieldwork component is included.  
Prerequisites: EDS 201, EDS 202, and a GPA of 2.75 or above  
Corequisite: EDS 301 or EDS 302 or EDS 303 or EDS 304 or EDS 305
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, EDS 307, and EDS 301 or EDS 302 or EDS 303 or EDS 304 or EDS 305. In addition, students must meet each of the following criteria:  
1. An overall grade point average of 2.75  
2. A grade point average of 2.75 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  
Student teachers reflect upon the educational philosophies they have studied and the methodologies 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 EDS 400. Prerequisite: A GPA of 2.75 or above  

Electrical Engineering Technology (AAS)  

Educational Objectives:  
- This program will prepare its graduates for a successful career in Electrical Engineering Technology and related fields.  
- This program will prepare its graduates with the ability to succeed in their career positions and advance to higher-level positions by emphasizing the need for lifelong learning and facilitating nearly seamless articulation to the BS program at the College.  

General Education Requirements  
ENG 111, ENG 151, COR 100, PED 190: 12 credits  
Whenever possible, these four courses should be completed within the first 36 credits.  

Core Requirements (52 credits)  

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<thead>
<tr>
<th>Course</th>
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<td>CSC 126</td>
<td>Introduction to Computer Science</td>
<td>4</td>
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<tr>
<td>ENS 100</td>
<td>Introduction to Engineering</td>
<td>2</td>
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<tr>
<td>ENS 110</td>
<td>Engineering Graphics</td>
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<tr>
<td>ELS 224</td>
<td>Electrical Circuit Analysis</td>
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<td>ELS 225</td>
<td>Electrical Circuit Analysis Laboratory</td>
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<tr>
<td>ELS 213</td>
<td>Introduction to Electronics</td>
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<td>Switching and Automata Theory</td>
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<td>ELS 221</td>
<td>Digital Electronics Laboratory</td>
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<td>ELS 347</td>
<td>Computer Circuits Laboratory</td>
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<td>ELS 331</td>
<td>Electronics Laboratory</td>
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<td>ELS 334</td>
<td>Electronics</td>
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<tr>
<td>ELS 344</td>
<td>Microprocessors: Theory and Applications</td>
<td>3</td>
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<tr>
<td>ELS 345</td>
<td>Microprocessor Laboratory</td>
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<td>ELS 362</td>
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<tr>
<td>ELS 442</td>
<td>Computer Hardware Technology</td>
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<tr>
<td>ELS 484</td>
<td>Telecommunications I</td>
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<tr>
<td>PHY 110</td>
<td>College Physics I</td>
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<td>PHY 111</td>
<td>College Physics I Laboratory</td>
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<td>PHY 116</td>
<td>Physics I</td>
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<td>General Physics I and</td>
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<td>PHY 121</td>
<td>General Physics I Lab</td>
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<tr>
<td>PHY 153</td>
<td>Waves, Optics, and Modern Physics</td>
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<tr>
<td>PHY 156</td>
<td>Physics II</td>
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<tr>
<td>PHY 160</td>
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<td>1</td>
</tr>
<tr>
<td>PHY 153</td>
<td>Waves, Optics, and Modern Physics</td>
<td>4</td>
</tr>
<tr>
<td>PHY 156</td>
<td>Physics II</td>
<td>4</td>
</tr>
<tr>
<td>PHY 160</td>
<td>General Physics II and</td>
<td>3</td>
</tr>
<tr>
<td>PHY 161</td>
<td>General Physics II Lab</td>
<td>1</td>
</tr>
</tbody>
</table>
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 223 Technical Calculus 4 credits
- MTH 228 Discrete Mathematical Structures 4 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

Technical Elective: One course of CSC, ELT, or ENS courses at the 200 level or above to be chosen in consultation with an advisor 2 credits (at least)

**Total Credits Required:** 64

**Liberal Arts and Sciences Requirement:**
All courses designated ELT and ENT are non-liberal arts and sciences.

**Minor in Electrical Engineering Science for students enrolled in a bachelor's degree program.**

**Minor Requirement:** 16 credits

- ELT 102 Introduction to Electrical and Electronic Technology 4 credits
- ELT 213 Introduction to Electronics 1 credit
- ELT 224 Electrical Circuit Analysis 4 credits
- ELT 225 Electrical Circuit Analysis Laboratory 1 credit
- ENS 110 Engineering Graphics 2 credits
- MTH 123 College Algebra and Trigonometry 4 credits

**Electrical Engineering Technology Courses**

**ELT 101 Introduction to Measurements and Instrumentation**
4 hours laboratory; 2 credits
Measurements of basic civil, electrical, and mechanical quantities using appropriate instrumentation. Students will report on their measurements in a written report and orally for some measurement experiments.
Pre- or corequisite: MTH 020 or an appropriate score the CUNY Mathematics Assessment Test

**ELT 102 Introduction to Electrical and Electronic Technology**
3 class hours, 2 laboratory hours; 4 credits
Introduction to the nature, measurement, generation, and utilization of electricity in our modern world including industrial and consumer electronics, computers, robots, communications. (science)
Prerequisite: MTH 020 an appropriate score the CUNY Mathematics Assessment Test

**ELT 213 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.
Pre- or corequisite: MTH 030 or equivalent or higher

**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 either ELT 101 or ELT 102; or MTH 123

**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 ELT 224 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.
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.
Pre- or corequisites: MTH 123, ELT 224, ELT 213, 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.
Pre- or corequisites: MTH 123, ELT 224, ELT 213

**ELT 344 Microprocessors: Theory and Applications**
3 hours; 3 credits
Microprocessor architecture and memory. The instruction set. Programming in machine and assembly language. Input/output techniques, the stack and stack pointer, interrupts, timing, microprocessor design criteria. Logic circuit analysis and fault diagnosis; applications and development systems; waveform creation.
Prerequisites: ELT 240 and ELT 241

**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 344
EIT 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

EIT 484 Telecommunications I
3 hours; 3 credits
Study of analog and digital carrier systems.
Prerequisite: ENS 221 or CSC 347

EIT 485 Telecommunications II
3 hours; 3 credits
Study of analog and digital carrier systems.
Prerequisite: EIT 484

Engineering Technology Courses

ENT 101 Introduction to Measurements and Instrumentation
4 hours laboratory; 2 credits
Measurements of basic civil, electrical, and mechanical quantities using appropriate instrumentation. Students will report on their measurements in a written report and orally for some measurement experiments.
Pre- or corequisite: MTH 020 an appropriate score the CUNY Mathematics Assessment Test

ENT 110 Engineering Graphics
5 hours; 2 credits
CAD (computer-aided drafting) is used throughout the course. Orthographic projections, and drawings, dimensioning, working drawings, graphs, laboratory sketches, vectors, 3D space, spatial analysis, isometric drawings.

ENGINEERING SCIENCE

(Bachelor of Science, Associate in Science)
Department of Engineering Science and Physics
Chair and Program Coordinator: Professor Syed A. Rizvi, Computer Science/Engineering Sciences and Physics Building (1N), Room 226.
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 Microprocessors, 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 341, ENS 450, and in all 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 the capstone course ENS 480 Advance Engineering Design. This is a project-oriented course 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.

General Education Requirements for the AS
ENG 111, ENG 151, COR 100, PED 190: 12 credits
Whenever possible, these four courses should be completed within the first 36 credits.

Core Requirements: 41 credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECO 285</td>
<td>Economics for Engineers</td>
<td>4</td>
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</table>

Core Requirements: 41 credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENS 100</td>
<td>Introduction to Engineering</td>
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<tr>
<td>ENS 110</td>
<td>Engineering Graphics</td>
</tr>
<tr>
<td>ENS 220</td>
<td>Introduction to Computer Engineering</td>
</tr>
<tr>
<td>ENS 241</td>
<td>Electrical and Electronic Circuits</td>
</tr>
<tr>
<td>ENS 250</td>
<td>Engineering Mechanics</td>
</tr>
<tr>
<td>CSC 126</td>
<td>Introduction to Computer Science</td>
</tr>
<tr>
<td>MTH 229</td>
<td>Calculus Computer Laboratory</td>
</tr>
<tr>
<td>MTH 230</td>
<td>Calculus I with Pre-Calculus</td>
</tr>
<tr>
<td>MTH 231</td>
<td>Analytic Geometry and Calculus I</td>
</tr>
<tr>
<td>MTH 232</td>
<td>Analytic Geometry and Calculus II</td>
</tr>
<tr>
<td>MTH 233</td>
<td>Analytic Geometry and Calculus III</td>
</tr>
<tr>
<td>PHY 120</td>
<td>General Physics I</td>
</tr>
<tr>
<td>PHY 121</td>
<td>General Physics I Laboratory</td>
</tr>
<tr>
<td>PHY 160</td>
<td>General Physics II</td>
</tr>
<tr>
<td>PHY 161</td>
<td>General Physics II Laboratory</td>
</tr>
<tr>
<td>CHM 141</td>
<td>General Chemistry I</td>
</tr>
<tr>
<td>CHM 121</td>
<td>General Chemistry I Laboratory</td>
</tr>
</tbody>
</table>

Electives: 3 credits

Total Credits Required: 60
Engineering Science (BS)
General Education Requirements for the BS
ENG 111, ENG 151, COR 100, PED 190: 12 credits
Whenever possible, these four courses should be completed within the first 36 credits.

Scientific Analysis; Social Scientific Analysis; The Contemporary World; Textual, Aesthetic, and Linguistic Analysis; Pluralism and Diversity requirements: 21-27 credits
Whenever possible, these courses should be completed within the first 60 credits.
1. Scientific Analysis: (11 credits)
   a. Science and Technology: (8 credits)
   b. Mathematics: (3 credits)
2. Social Scientific Analysis: (3-4 credits)
   ECO 285 Economics for Engineers
3. The Contemporary World: (4 credits)
4. Textual, Aesthetic, and Linguistic Analysis: (3-4 credits)
   a. Literature: 200-level
   b. Arts and Communications: 100-level
   c. Arts and Communications: 200-level
5. Pluralism and Diversity Requirement: (0-4 credits)
See section on general education requirements for approved course lists and complete details.

Pre-Major Requirements: 41 credits
Students beginning the Engineering Science program as freshmen should complete the following requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ENS 100</td>
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<td>ENS 110</td>
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<tr>
<td>ENS 220</td>
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<td>ENS 241</td>
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<td>ENS 250</td>
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<td>CSC 126</td>
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<td>MTH 229</td>
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<td>MTH 232</td>
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<td>PHY 120</td>
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<td>PHY 160</td>
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<td>PHY 161</td>
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<tr>
<td>CHM 141</td>
<td>3</td>
</tr>
<tr>
<td>CHM 121</td>
<td>1</td>
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</table>

Major Requirements: 62-63 credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MTH 330</td>
<td>4</td>
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<tr>
<td>PHY 240</td>
<td>3</td>
</tr>
<tr>
<td>MTH 311</td>
<td>4</td>
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<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>MTH 331</td>
<td>4</td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>ENS 221</td>
<td>2</td>
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<tr>
<td>or</td>
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</tr>
<tr>
<td>ENS 310</td>
<td>4</td>
</tr>
<tr>
<td>Thermodynamics</td>
<td>4</td>
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<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>ENS 362</td>
<td>4</td>
</tr>
<tr>
<td>Microprocessors</td>
<td>4</td>
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<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>ENS 336</td>
<td>4</td>
</tr>
<tr>
<td>Computer-Aided Engineering</td>
<td>4</td>
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<td>or</td>
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</tr>
<tr>
<td>ENS 383</td>
<td>4</td>
</tr>
<tr>
<td>Electrical Properties of Materials</td>
<td></td>
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<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>ENS 384</td>
<td>3</td>
</tr>
<tr>
<td>Mechanical Properties of Materials</td>
<td>3</td>
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<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>ENS 485</td>
<td>4</td>
</tr>
<tr>
<td>Properties of Materials</td>
<td>4</td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>ENS 331</td>
<td>4</td>
</tr>
<tr>
<td>Digital Signal Processing</td>
<td>4</td>
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<td>or</td>
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<tr>
<td>ENS 450</td>
<td>4</td>
</tr>
<tr>
<td>Fluid Mechanics</td>
<td>4</td>
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<td>or</td>
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</tr>
<tr>
<td>CSC 326</td>
<td>4</td>
</tr>
<tr>
<td>Information Structures</td>
<td>4</td>
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<tr>
<td>or</td>
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<tr>
<td>ENS 420</td>
<td>4</td>
</tr>
<tr>
<td>Analog and Digital Systems Design</td>
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<td>or</td>
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<tr>
<td>ENS 380</td>
<td>4</td>
</tr>
<tr>
<td>Mechanics of Solids</td>
<td>4</td>
</tr>
<tr>
<td>or</td>
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</tr>
<tr>
<td>CSC 332</td>
<td>4</td>
</tr>
<tr>
<td>Operating Systems I</td>
<td>4</td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>ENS 356</td>
<td>4</td>
</tr>
<tr>
<td>Theory of Electromagnetic Radiation</td>
<td></td>
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<tr>
<td>or</td>
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</tr>
<tr>
<td>ENS 316</td>
<td>4</td>
</tr>
<tr>
<td>Dynamics</td>
<td>4</td>
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<td>or</td>
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<tr>
<td>ENS 471</td>
<td>4</td>
</tr>
<tr>
<td>Control Systems</td>
<td>4</td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>ENS 491</td>
<td>2</td>
</tr>
<tr>
<td>Advanced Engineering Design I</td>
<td>2</td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>ENS 492</td>
<td>2</td>
</tr>
<tr>
<td>Advanced Engineering Design II</td>
<td>2</td>
</tr>
</tbody>
</table>

At least two of the following laboratories:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENS 309</td>
<td>2</td>
</tr>
<tr>
<td>Basic Measurements Laboratory</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>ENS 359</td>
<td>2</td>
</tr>
<tr>
<td>Mechanical Materials Laboratory</td>
<td></td>
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<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>ENS 439</td>
<td>2</td>
</tr>
<tr>
<td>Systems Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>ENS 459</td>
<td>2</td>
</tr>
<tr>
<td>Applied Mechanics Laboratory</td>
<td>2</td>
</tr>
</tbody>
</table>

Four credits of technical electives approved by an engineering science adviser
At least six credits of advanced ENS electives
6 credits

The total number of ENS credits must be at least 58 as approved by an engineering science adviser.

Computer Engineering Specialization:
Courses recommended as fulfilling the pre-major and major requirements include:

CSC 326, ENS 362, ENS 331, ENS 309, CSC 332, ENS 439, ENS 383 or ENS 485; and courses fulfilling the technical electives chosen from among: CSC 330, CSC 430, CSC 435, CSC 480, CSC 482, CSC 490, ENS 341, ENS 420, ENS 422, ENS 432, ENS 446.

Electrical Engineering Specialization:
Courses recommended as fulfilling the pre-major and major requirements include:

MTH 331, ENS 331, ENS 356, ENS 309, ENS 362, ENS 341, ENS 439, ENS 383 or ENS 485; and courses fulfilling the technical electives chosen from among: ENS 420, ENS 422, ENS 432, ENS 446, ENS 434, ENS 436, ENS 438, ENS 359, ENS 459.
Mechanical Engineering Specialization:
Courses recommended as fulfilling the pre-major and major requirements include:
ENS 316, MTH 331, ENS 380, ENS 362, ENS 450, ENS 359, ENS 384 or ENS 485, ENS 459; and courses fulfilling the technical electives chosen from among: ENS 350, ENS 410, ENS 416, ENS 422, ENS 434, ENS 436, ENS 438, ENS 470, ENS 309, ENS 439.

Electives: 0-8 credits
Total Credits Required: 133

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 adviser 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 double listed in mathematics (MTH) or physics (PHY) are liberal arts and sciences.

Engineering Science
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

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: Appropriate scores on the CUNY Skills Assessment Tests

ENS 110 Engineering Graphics
5 hours; 2 credits
CAD (computer-aided drafting) is used throughout the course. Orthographic projections, and drawings, dimensioning, working drawings, graphs, laboratory sketches, vectors, 3D space, spatial analysis, isometric drawings. Prerequisite: Appropriate scores on the CUNY Skills Assessment Tests

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 100
Pre- or corequisite: CSC 126

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 programmable system controllers. Prerequisite: ENS 220

ENS 241 Electrical and Electronic Circuits
2 lecture hours/4 laboratory hours; 4 credits

ENS 250 Engineering Mechanics
3 hours; 3 credits
Three-dimensional vector algebra. Equivalence of force-coupled systems and equilibrium of rigid bodies. Engineering application of statics. Analysis of trusses, frames, and machines. Friction and moment of inertia. Introduction to stress and strain. Prerequisites: ENS, and PHY 120 and PHY 121, or PHY 230
Pre- or corequisite: MTH 233

ENS 309 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 is emphasized. Prerequisite: ENS 241
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites/Co-requisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENS 310</td>
<td>Thermodynamics</td>
<td>4</td>
<td>Pre- or corequisite: MTH 330</td>
</tr>
<tr>
<td></td>
<td>(Also PHY 310)</td>
<td></td>
<td>Basic concepts: systems, temperature, work, and heat. First and second laws of thermodynamics. Entropy, vapor, and gas power systems. Refrigeration and heat pump systems. Nonreacting gas mixtures and psychrometrics. Prerequisites: PHY 160 or PHY 230 Pre- or corequisite: MTH 235 or MTH 236</td>
</tr>
<tr>
<td>ENS 316</td>
<td>Dynamics</td>
<td>4</td>
<td>(Also PHY 316)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Prerequisites: ENS 241 or CSC 270 or CSC 126</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites/Co-requisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENS 331</td>
<td>Digital Signal Processing</td>
<td>4</td>
<td>(Also PHY 316)</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Pre- or corequisite: MTH 330</td>
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<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites/Co-requisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENS 336</td>
<td>Computer-Aided Engineering</td>
<td>4</td>
<td>(Also PHY 316)</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Pre- or corequisite: MTH 330</td>
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<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites/Co-requisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENS 341</td>
<td>Electrical Network Analysis</td>
<td>4</td>
<td>(Also PHY 316)</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Pre- or corequisite: MTH 330</td>
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</tbody>
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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites/Co-requisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENS 350</td>
<td>Transport Processes</td>
<td>4</td>
<td>(Also PHY 316)</td>
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<td>Pre- or corequisite: MTH 330</td>
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<tr>
<td>ENS 356</td>
<td>Theory of Electromagnetic Radiation</td>
<td>4</td>
<td>(Also PHY 316)</td>
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<td>ENS 359</td>
<td>Mechanical Materials Laboratory</td>
<td>4</td>
<td>(Also PHY 316)</td>
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<td>ENS 362</td>
<td>Microprocessors</td>
<td>4</td>
<td>(Also PHY 316)</td>
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<td>ENS 380</td>
<td>Mechanics of Solids</td>
<td>4</td>
<td>(Also PHY 316)</td>
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<td>ENS 383</td>
<td>Electrical Properties of Materials</td>
<td>3</td>
<td>(Also PHY 316)</td>
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<td>Mechanical Properties of Materials</td>
<td>3</td>
<td>(Also PHY 316)</td>
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<td>Pre- or corequisite: MTH 330</td>
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ENS 410  Heat Transfer
4 hours; 4 credits
Prerequisite: ENS 450

ENS 416  Applied Elasticity
4 hours; 4 credits
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

ENS 420  Analog and Digital Systems Design
4 hours; 4 credits
Prerequisite: ENS 220 and ENS 241

ENS 422  Signals and Noise
4 hours; 4 credits
Application of probability theory to engineering problems. Topics include random signal models and their uses, linear prediction and signal modeling, filtering of stationary random signals, parameter identification by the maximum likelihood methods, noise reduction and signal enhancement filters, quantization noise, linear estimation and detection of signals.
Prerequisite: ENS 241 and senior-level status or permission of instructor

ENS 432  Digital and Analog Communication Systems
4 hours; 4 credits
Prerequisite: ENS 241 and senior-level status, or permission of instructor

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 438  Power Plant Design and Analysis
4 hours; 4 credits
Prerequisite: ENS 310

ENS 439  Systems Laboratory
4 laboratory hours; 2 credits
Students will undertake projects illustrating the principles, operation, and characteristics of electrical and electromechanical systems, operational amplifiers, digital filters, and transducers. Additional projects will involve modulation, transmission, and detection in analog and digital communication systems, and signal and image processing techniques. Projects will be designed and simulated, using the appropriate hardware and software tools. Measured data will be compared to simulated results. These projects fulfill the course objective of translation of systems theory into operating circuitry and systems.
Prerequisite: ENS 309

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 449  Applied Mechanics Laboratory
(Also PHY 450)
4 hours; 4 credits
Prerequisite: ENS 309 or ENS 359
Pre- or corequisite: ENS 450

ENS 459  Fluid Mechanics
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 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, technical systems, solid and liquid waste disposal, etc.
Prerequisite: ENS 310 or permission of the instructor
ENS 471  Control Systems
4 hours; 4 credits
Prerequisites: ENS 241, ENS 310, ENS 336, and MTH 330

ENS 485  Properties of Materials
(Also PHY 485)
4 hours; 4 credits
Prerequisite: Physics 240 or permission of the instructor

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.
Prerequisites: ENS 336 and ENS 362
Pre- or corequisite: ENS 439

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.
Prerequisite:  ECO 285, ENS 471, ENS 491

ENGLISH
(Bachelor of Arts, Minor, Concentration in Dramatic Literature; Master of Arts, see Graduate Catalog)
Department of English, Speech, and World Literature
Chair: Janet Ng Dudley, English, Speech, and World Literature/Modern Languages Building (2S), Room 218.
The Department of English, Speech, and World Literature 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. (See also section on Dramatic Arts.)

English (BA)
General Education Requirements for the BA
ENG 111, ENG 151, COR 100, PED 190: 12 credits
Whenever possible, these four courses should be completed within the first 36 credits.

Scientific Analysis; Social Scientific Analysis; The Contemporary World; Textual, Aesthetic, and Linguistic Analysis; Pluralism and Diversity requirements: 28-47 credits
Whenever possible, these courses should be completed within the first 60 credits.
1. Scientific Analysis: (11 credits)
   a. Science and Technology: (8 credits)
   b. Mathematics: (3 credits)
2. Social Scientific Analysis: (7-8 credits)
3. The Contemporary World: (4 credits)
4. Textual, Aesthetic, and Linguistic Analysis: (6-8 credits)
   a. Literature: 200-level
   b. Arts and Communications: 100-level
5. Pluralism and Diversity Requirement: (0-4 credits)
6. Foreign Language: (0-12 credits)
See section on general education requirements for approved course lists and complete details.

Major Requirements: 40 credits

Literature Concentration (40 credits):

Three Required Courses (12 credits):
1. ENH 218 Introduction to the Study of Literature
2. ENL 365 World Literature in Contexts
3. ENL 376 British and American Literary Traditions
At least one of the remaining courses must be pre-1800.

Required 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.
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 Third World writers (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.

Remaining Courses (8 credits):
These eight credits may be ENH or ENL linguistics courses, ENL literature or writing courses, or ENL 302 (Oral Interpretation of Literature).*

*English majors in the adolescence education sequence are required to take ENL 323 (Coming of Age in Literature) and either ENH 230 (Introduction to Language) or ENL 422 (Introduction to Linguistics.)
Writing Concentration (40 credits):
Five ENL Writing Courses (20 credits at least 12 at the 300 or 400 level).

Three Required Literature Courses (12 credits):
1. ENH 218 Introduction to the Study of Literature
2. ENL 365 World Literature in Contexts
3. ENL 376 British and American Literary Traditions

Remaining Courses (8 credits):
These eight credits may be ENH or ENL linguistics courses, ENL literature or writing courses, or ENL 302 (Oral Interpretation of Language).*

*English majors in the adolescence education sequence are required to take ENL 323 (Coming of Age in Literature) and either ENH 230 (Introduction to Language) or ENL 422 (Introduction to Linguistics.)

Linguistics Concentration (40 credits):
Linguistics Courses (20 credits)
Linguistics courses may be selected from the following:
- ENH 230 Introduction to Language
- ENL 222 English Pronunciation
- ENL 422 Introduction to Linguistics
- ENL 423 Modern English Grammar
- ENL 424 Language Change
- ENL 425 History of the English Language
- ENL 426 Language Acquisition and Psycholinguistics
- ENL 427 Sociology of Language

Three Required Literature Courses (12 credits):
1. ENH 218 Introduction to the Study of Literature
2. ENL 365 World Literature in Contexts
3. ENL 376 British and American Literary Traditions

Remaining Courses (8 credits):
These eight credits may be ENH or ENL linguistics courses, ENL literature or writing courses, or ENL 302 Oral Interpretation of Language.*

*English majors in the adolescence education sequence are required to take ENL 323 (Coming of Age in Literature) and either ENH 230 (Introduction to Language) or ENL 422 (Introduction to Linguistics.)

Dramatic Literature Concentration (40 credits):
Three Required Literature Courses (12 credits):
1. ENH 218 Introduction to the Study of Literature
2. ENL 365 World Literature in Contexts
3. ENL 376 British and American Literary Traditions

Dramatic Literature Courses (12 credits):
Dramatic Literature courses may be selected from the following:
Note: One pre-1800 course is required
One post-1800 course is required

- ENL 361 The Early Shakespeare
- ENL 362 The Later Shakespeare
- ENL 354 English Drama to 1800
- ENL 357 World Drama to 1800
- ENL 355 Modern European Drama
- ENL 356 American Drama
- ENL 358 World Drama since 1800
- ENL 359 Contemporary Drama
- FRN 426 Classical French Drama
- SPN 345 Spanish Theater
- SPN 425 The Golden Age of Spanish Drama
- ENL 272/ENL 273 Playwriting I, II

Dramatic Arts Courses (8 credits):
- DRA 110 Acting I (4 hours; 3 credits)
- DRA 210 Acting II (4 hours; 3 credits)
- DRA 213 Movement for the Theater (4 hours; 3 credits)
- DRA 214 Voice/Diction for Theater (4 hours; 3 credits)
- DRA 141/142 Theater Production (3 hours; 3 credits/2 hours; 1 credit)
- DRA 230 Set Design for the Theater (4 hours; 3 credits)
- DRA 300 Topics on Productions (4 hours; 4 credits)
- DRA 320 Directing (4 hours; 4 credits)
- DRA 272 Performance Histories (4 hours; 4 credits)

Remaining Courses (8 credits):
These eight credits may be ENH or ENL linguistics courses, ENL literature or writing courses, or ENL 302 Oral Interpretation of Literature.*

*English majors in the adolescence education sequence are required to take ENL 323 (Coming of Age in Literature) and either ENH 230 (Introduction to Language) or ENL 422 (Introduction to Linguistics.)

Electives: 21-40 credits
Students in the literature, writing, or linguistics options planning to complete the adolescence education sequence may count the required education courses as electives.

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 better and be recommended for Honors by the English Department Honors Committee after submitting a paper for its consideration.

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 1.
Minors

Minor in Linguistics
At least 12 credits of courses in linguistics.

Minor in Literature
At least 12 credits in ENL literature courses, one course in literature before 1800, courses from two of the Literary Approaches groupings, and courses from two coverage areas.

Minor in Speech
At least 10 credits of courses in speech.

Minor in Writing
At least 12 credits in writing (ENL), at least one at or above the 300 level.

Courses

CUNY/ACT Reading Skills and Writing Sample Tests
Students who fail the CUNY/ACT Reading Skills Test (C/ARST) on entrance are required to take the appropriate 0-level reading course in their first semester.

Students who score 6 on the CUNY/ACT Writing Sample Test (C/AWST) 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.

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 basic skills 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

The following courses are designed for native speakers of English who fail the CUNY/ACT Reading Skills Test (C/ARST) and/or the CUNY/ACT Writing Sample Test (C/AWST).

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: Score of 2-6 on CUNY/ACT Writing Sample Test

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.
Prerequisite: Failing CUNY/ACT Reading Skills Test, interview and placement by English Department reading coordinator or designer

ENG 003 Developmental Writing II
4 hours; 0 credit, 4 equated credits
Intensive work in revising, proofreading, and editing.
Prerequisite: Score of 2-6 on CUNY/ACT Writing Sample Test and 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.
Prerequisite: Failing CUNY/ACT Reading Skills Test and either interview and placement by English Department reading coordinator or designer or passing grade in ENG 002

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.
Prerequisite: Failing CUNY/ACT Reading Skills Test and either passing grade in ENG 004 or placement by English Department reading coordinator or designer

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/ACT Reading Skills Test (C/ARST) and/or the CUNY/ACT Writing Sample Test (C/AWST).

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 CUNY/ACT Writing Sample Test, interview and placement by 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 CUNY/ACT Writing Sample Test, interview and placement by 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 CUNY/ACT Reading Skills Test, interview and placement by English Department reading 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 CUNY/ACT Reading Skills Test, interview and placement by English Department reading 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 CUNY/ACT Writing Sample Test, interview and placement by 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 CUNY/ACT Reading Skills Test, interview and placement by English Department ESL coordinator or designer
Writing Courses
All students in the College are required to complete ENG 111 Communications Workshop 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.
Prerequisite: Successful completion of the CUNY/ACT Writing Sample and Reading Skills Tests.

ENG 151 College Writing
4 hours; 4 credits
English 151 builds on the work of English 111. It emphasizes expository and analytic writing and longer papers. Attention to reading, library skills, and research methods. Sections may be focused on particular themes, to be announced in the Schedule of Classes.
Prerequisites: ENG 111 and passing the CUNY/ACT Reading Skills Test

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)
Prerequisites: ENG 111, 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)
Prerequisites: ENG 111, 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)
Prerequisites: ENG 111, 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)
Prerequisites: ENG 111, 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)
Prerequisites: ENG 111, 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)
Prerequisites: ENG 111, ENG 151

ENH 207 Classics of Asian Literature
4 hours; 4 credits
A study of classical and modern works from China, India, Japan, Indo-China, and the Near East. (literature) (p&d)
Prerequisites: ENG 111, ENG 151

ENH 208 Contemporary Literature
4 hours; 4 credits
An examination of important figures and trends in literature since World War II. (literature)
Prerequisites: ENG 111, 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.)
Prerequisite: COR 100, ENG 151

ENH 210 Modes of 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)
Prerequisites: ENG 111, ENG 151

ENH 211 Modes of 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)
Prerequisites: ENG 111, ENG 151

ENH 212 Modes of 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) (arts & com.)
Prerequisites: ENG 111, ENG 151

ENH 213 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 society. 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)
Prerequisites: ENG 111, 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 relationships between literature and film. (literature)
Prerequisites: ENG 111, 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)
Prerequisites: ENG 111, 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)
Prerequisites: ENG 111, 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 introduce students to Shakespeare's language, interests, visions, and styles and to give them a sense of his historical context. (Literature)
Prerequisite: ENG 111, ENG 151

ENH 218  Introduction to the Study of Literature
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? And 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 is required of all English majors and offers the rudiments of the knowledge necessary for further study and teaching in the field.
Prerequisite: ENG 151

ENH 221  African American Literature
(Also AFA 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)
Prerequisites: ENG 111, ENG 151

ENH 223  Mythology of Women
(Also WMS 263)
4 hours; 4 credits
An analysis of myths that continue to influence the way men look at women and women look at themselves. (Literature) (p&d)
Prerequisites: ENG 111, ENG 151

ENH 224  U.S. Literature: Multicultural Perspectives
4 hours; 4 credits
Literature by and about members of ethnic, racial, religious, sexual, and other minorities in the U.S. (Literature) (p&d)
Prerequisite: ENG 111, ENG 151

ENH 225  Literature and Writing Courses

ENH 230  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)
Prerequisite: ENG 151

Literature and Writing Courses
These courses, with few exceptions, are at the advanced level and are intended for students who have completed their requirements in English and wish additional electives, and for students who are majoring in English. These courses are identified by the ALPHA prefix ENL.

ENL 214  Principles of Editorial Style: Integration of Writing and Graphics
(Also COM 214)
4 hours; 3 credits
Editorial style as total concept, including both visual design and written concept. An introduction to professional writing, editorial concepts, and the publication process. Focus on brochure, newsletter, magazine, advertisement, and book structure; their meaning and significance. Writing and editing for such publications and for the marketplace, with special emphasis on audience and purpose and the development of a variety of editorial skills, such as proofreading, reorganizing, rewriting, collaborating, and coauthoring.
Prerequisite: ENG 151 or permission of instructor. (Students who successfully complete COM 211 may not register for COM/ENL 214.)

ENL 230  History of Print Media
(Also COM 230)
4 hours; 4 credits
An introductory survey of the evolution of newspapers, periodicals, and the publishing industry, focusing on technological developments, major innovations, legal and ethical issues, and societal impact.
Prerequisites: ENG 151 and COM 150

ENL 241  Communications Design Workshop: Writing and Design
(Also COM 241)
4 hours; 3 credits
Theoretical and practical approaches to the interrelationship of writing, print, and video graphics. Analysis of the role of subject, voice, and audience in determining appropriate visual and verbal forms. Practical problems of graphic and video reproduction and execution with applications through desktop publishing and small format TV. Each student works through a number of design problems and completes various problems and various projects of his/her choice.
Prerequisite: COM/ENL 214
ENL 265  Journal I  
4 hours; 4 credits  
During the semester, each student keeps a journal, including fragments of responses to whatever moments and situations (personal, domestic, social, cultural) he/she wishes to write about. Students will be encouraged to develop these fragments and their connections as an understanding of them deepens.  
Prerequisite: ENG 151

ENL 267  Workshop in Creative Writing  
4 hours; 4 credits  
A general introduction to the field in which students work on projects of their own choosing drawn from a variety of genres. Class discussions of students' work and the problems of creative writing. Selected readings.  
Prerequisite: ENG 151

ENL 268  Writing Fiction I  
4 hours; 4 credits  
A study of the techniques of writing fiction. Students will work on short stories and longer works, with a concentration on individual projects.  
Prerequisite: ENG 151

ENL 270  Writing Poetry I  
4 hours; 4 credits  
An introduction to writing poetry. Class discussions of students' work and the problems of creating poetry. Selected readings.  
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.  
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.  
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.  
Prerequisite: ENG 151

ENL 280  Introduction to Women's Written Expression  
(Also WMS 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.  
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.  
Prerequisite: ENG 151, letter of recommendation from the student's ENG 151 instructor, and permission of the instructor.

ENL 300  The Western Literary Tradition I  
4 hours; 4 credits  
An examination of texts by Chaucer, Shakespeare, Milton, and Pope or Swift. Readings in other English and continental authors, designed to help place these major figures in a broad cultural context.  
Prerequisite: An ENH 200-level course

ENL 301  The Western Literary Tradition II  
4 hours; 4 credits  
An examination of representative texts from the three major modern literary movements: Romanticism, Realism, Modernism. English, American, and works originally not written in English will be considered, as well as works by women and American minority authors.  
Prerequisite: An ENH 200-level course

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

ENL 312  Theories of Mass Media  
(Also COM 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

ENL 314  Classical Greek and Roman Literature  
4 hours; 4 credits  
Readings in translation and discussion of works from Homer to Tacitus. Special attention will be given to the characteristics of specific genres.  
Prerequisite: An ENH 200-level course

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.  
Prerequisite: An ENH 200-level course

ENL 316  Medieval Literature  
4 hours; 4 credits  
A study of the European contemporaries of Chaucer, including works dealing with Arthurian legends.  
Prerequisite: An ENH 200-level course
ENL 317  English Literature prior to the Renaissance  
4 hours; 4 credits  
An intensive study of Old English and English Medieval literature through the 15th century.  
Prerequisite: An ENH 200-level course

ENL 318  English Literature of the Renaissance  
4 hours; 4 credits  
A generic and thematic study of the nondramatic literature of 16th- and 17th-century England, with emphasis on Spenser and the Sidney circle.  
Prerequisite: An ENH 200-level course

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.  
Prerequisite: An ENH 200-level course

ENL 320  English Literature of the 17th Century  
4 hours; 4 credits  
An intensive study of poets and prose writers of the period, from John Donne through John Dryden.  
Prerequisite: An ENH 200-level course

ENL 322  English Literature in the Age of Reason  
4 hours; 4 credits  
A study of 18th-century England with emphasis on such authors as Addison, Steele, Swift, and Pope, and on the change in society during the period of the Enlightenment.  
Prerequisite: An ENH 200-level course

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.  
Pre- or corequisite: ENH 218 Introduction to the Study of Literature

ENL 324  Readings in English Romanticism  
4 hours; 4 credits  
A study of selected texts by Blake, Wordsworth, Coleridge, Shelley, Byron, Keats, and others.  
Prerequisite: An ENH 200-level course

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.  
Prerequisite: An ENH 200-level course

ENL 326  European Literature: 1780-1850  
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 distinctively modern consciousness.  
Prerequisite: A 200-level English course

ENL 330  The American Renaissance  
4 hours; 4 credits  
A detailed study of selected texts by Emerson, Thoreau, Hawthorne, Melville, and Whitman. The authors and their works are considered in relation to the social and philosophical backgrounds of their time.  
Prerequisite: An ENH 200-level course

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.  
Prerequisite: An ENH 200-level course

ENL 332  The Modernists II  
4 hours; 4 credits  
A study of the modernist sensibility from the 1920s through the Existentialists.  
Prerequisite: A 200-level English course

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, Kinsella, Behan, O’Flaherty, and John Montague.  
Prerequisite: An ENH 200-level course

ENL 334  Modern Russian Literature  
4 hours; 4 credits  
A study of Russian literature of the 19th and 20th centuries.  
Prerequisite: A 200-level English course

ENL 335  Modern Asian Literature  
4 hours; 4 credits  
An exploration of the world of Asia through literature. Works of major modern writers of India, China, Japan, and Vietnam will be studied with a view to understanding changing beliefs and values. (p&d)  
Prerequisite: An ENH 200-level course

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.  
Prerequisite: An ENH 200-level course

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.  
Prerequisite: An ENH 200-level course

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.  
Prerequisite: An ENH 200-level course
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisite</th>
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<tbody>
<tr>
<td>ENL 340</td>
<td>Autobiography and Biography</td>
<td>4 hours</td>
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<tr>
<td>ENL 341</td>
<td>Studies in 18th-Century Fiction</td>
<td>4 hours</td>
<td>An ENH 200-level course</td>
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<td>ENL 342</td>
<td>Studies in 19th-Century English Fiction</td>
<td>4 hours</td>
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<tr>
<td>ENL 343</td>
<td>Studies in 19th-Century European Fiction</td>
<td>4 hours</td>
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<td>ENL 344</td>
<td>American Fiction from 1885 until World War II</td>
<td>4 hours</td>
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<td>ENL 345</td>
<td>American Fiction since World War II</td>
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<td>ENL 346</td>
<td>Modern English Fiction through World War II</td>
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<td>ENL 347</td>
<td>Major 20th-Century Novelists</td>
<td>4 hours</td>
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<td>ENL 348</td>
<td>Women Novelists</td>
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<td>ENL 349</td>
<td>English and Commonwealth Fiction since World War II</td>
<td>4 hours</td>
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<td>ENL 350</td>
<td>American Poetry</td>
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<td>ENL 351</td>
<td>Modern English Poetry</td>
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<td>ENL 352</td>
<td>Major 20th-Century Poets</td>
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<td>ENL 353</td>
<td>Contemporary Poetry</td>
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<td>ENL 354</td>
<td>English Drama to 1800</td>
<td>4 hours</td>
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<td>ENL 355</td>
<td>Modern European Drama</td>
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<tr>
<td>ENL 356</td>
<td>American Drama</td>
<td>4 hours</td>
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<tr>
<td>ENL 357</td>
<td>World Drama to 1800</td>
<td>4 hours</td>
<td>An ENH 200-level course</td>
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</tbody>
</table>
ENL 358 World Drama since 1800
(Also DRA 358)
4 hours; 4 credits
Selected plays from 1800 to the present.
Prerequisite: An ENH 200-level course

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.
Prerequisite: An ENH 200-level course

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.
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.
Prerequisite: An ENH 200-level course

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.
Prerequisite: An ENH 200-level course

ENL 363 John Milton
4 hours; 4 credits
An intensive study of the major works.
Prerequisite: An ENH 200-level course

ENL 365 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 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.
Pre- or corequisite: ENH 218 Introduction to the Study of Literature

ENL 366 Walt Whitman
4 hours; 4 credits
An intensive study of the man and his poetry. (p&d)
Prerequisite: An ENH 200-level course

ENL 370 Journal II
4 hours; 4 credits
Students will continue to keep the journals begun in Journal I. The emphasis in the second semester course will be on the exploration of the area where ideas of literature, psychology, and biography overlap with the introspective sort of writing involved in the personal journal. The class meetings will be concerned essentially with extending the ideas that emerge from the individual journals.
Prerequisite: ENL 265
ENL 381 Major American Author I
4 hours; 4 credits
Intensive study of the works of a major American author.
Prerequisite: An ENH 200-level course

ENL 382 Major American Author II
4 hours; 4 credits
Intensive study of the works of a major American author.
Prerequisite: An ENH 200-level course

ENL 383 Major American Author III
4 hours; 4 credits
Intensive study of the works of a major American author.
Prerequisite: An ENH 200-level course

ENL 384 Major Woman Author I
(Also WMS 384)
4 hours; 4 credits
Intensive study of the works of a major woman author. (p&d)
Prerequisite: An ENH 200-level course

ENL 385 Major Woman Author II
(Also WMS 385)
4 hours; 4 credits
Intensive study of the works of a major woman author. (p&d)
Prerequisite: An ENH 200-level course

ENL 386 Major Woman Author III
(Also WMS 387)
4 hours; 4 credits
Intensive study of the works of a major woman author. (p&d)
Prerequisite: An ENH 200-level course

ENL 387 Major World Author I
(Also LNG 387)
4 hours; 4 credits
Intensive study of the works of a major world author.
Prerequisite: An ENH 200-level course

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.
Prerequisite: An ENH 200-level course

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.
Prerequisite: An ENH 200-level course

ENL 390 Studies in Women in Literature and the Arts
(Also WMS 390)
4 hours; 4 credits
This course examines women's literature, art, and film as shaped by national culture, historical circumstances, class, and age. (p&d)
Prerequisite: An ENH 200-level course

ENL 391 Woman as Hero
(Also WMS 391)
4 hours; 4 credits
Selected readings from Greek drama through current literature, revealing the position and experience of women as heroes. (p&d)
Prerequisite: An ENH 200-level course

ENL 392 The Black Writer in the Modern World
(Also AFA 323)
4 hours; 4 credits
An intensive study of various recent and contemporary Black authors, writing in all the literary genres, and their grappling with traditional and changing environments. (p&d)
Prerequisite: An ENH 200-level course

ENL 393 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

ENL 394 Mythic Concepts and Archetypes in Literature
4 hours; 4 credits
The presence and influence of Jungian and folkloric concepts in past and current literature. (p&d)
Prerequisite: An ENH 200-level course

ENL 395 Studies in Global Literature I
(Also LNG 396)
4 hours; 4 credits
Focus on literature from outside the U.S. and Europe. The specific emphasis will vary from semester to semester and will be announced in the Schedule of Classes. (p&d)
Prerequisite: An ENH 200-level course

ENL 396 Studies in Global Literature II
(Also LNG 397)
4 hours; 4 credits
Focus on literature from outside the U.S. and Europe. The specific emphasis will vary from semester to semester and will be announced in the Schedule of Classes. (p&d)
Prerequisite: An ENH 200-level course

ENL 397 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. (p&d)
Prerequisite: An ENH 200-level course

ENL 398 Themes in Literature
4 hours; 4 credits
A study of selected themes in literary works. The particular theme for the semester will be announced in the Schedule of Classes. This course may be taken more than once for credit.
Prerequisite: An ENH 200-level course
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. 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. Prerequisite: ENL 267 or permission of the instructor

ENL 431 Craft of Fiction Workshop
4 hours; 4 credits
An advanced course in the craft of fiction. In a workshop situation, the student's work will be discussed and analyzed. Particular techniques of short story and novel writing will be closely explored. Prerequisite: ENL 371 or permission of the instructor

ENL 432 Craft of Poetry Workshop
4 hours; 4 credits
An advanced course in the craft of poetry. In a workshop setting, the student's work will be discussed and analyzed. Particular techniques of the art of poetry will be closely explored. A degree of poetic sophistication will be expected of the workshop participants. Prerequisite: ENL 372 or permission of the instructor

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. Prerequisite: ENG 151

ENL 435 Playwright's Workshop
4 hours; 4 credits
An advanced course in playwriting. In a workshop situation, the student's work will be discussed and analyzed. Particular techniques of playwriting will be closely explored. An effort will be made to have a current theater workshop class perform some of the contributed material. Prerequisite: ENL 272 or permission of the instructor

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 filmscript as well as adapting a piece of existing material for the screen. Prerequisite: CIN/ENL 274 or permission of the instructor

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. Prerequisite: ENG 151

ENL 438 Newspaper Reporting
(Also COM 438)
4 hours; 4 credits
Techniques of copyediting and proofreading for both the reporter-writer and the editor. Prerequisite: ENG 151

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. 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. Prerequisite: ENG 151

ENL 442 Women's Written Expression
(Also WMS 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. 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 standards and the pressures on the press, which define its values. Topics vary from term to term. Prerequisite: ENG 151

ENL 446 Writing for the Media
(Also COM 465)
4 hours; 4 credits
Scripting for various media, including slide-tape presentations, audio, video, film, television, and print. The course emphasizes the translation of information, ideas, and experience into various presentational formats and applies that knowledge to specific projects such as marketing presentations, sales, promotion scripts, and motivational scripts within industry. Prerequisites: A COM 200-level course and ENG 151 or permission of instructor

ENL 470 Senior Seminar in Literature
4 hours; 4 credits
Various topics in literature, differing from semester to semester. Prerequisites: Senior standing and permission of the instructor
ENL 475  Writing for Advertising and Public Relations  
(Also COM 475)  
4 hours; 4 credits  
An introduction to the techniques of writing promotional copy, including advertising (print and broadcast), press releases, direct mail, and publicity materials. Students analyze advertising and public relations campaigns from a marketing point of view and evaluate and discuss their effectiveness. Assignments include product, audience, and media analysis; copywriting ads, press releases, and direct mail letters.  
Prerequisites: COM 211 or COM/ENL 214 and ENG 151 or permission of instructor

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. Emphasis varies from term to term.  
Prerequisite: ENL/COM 412 or ENL/COM 438

Linguistics Courses  
These courses are intended for students who have completed their requirements in English and wish additional electives, as well as for students majoring in English.

ENL 222  English Pronunciation  
3 hours; 3 credits  
The sounds of standard American English and the articulatory mechanism; the International Phonetic Alphabet; normative pronunciation.  
Pre- or corequisite: ENG 111

ENL 422  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.  
Prerequisite: ENG 151

ENL 423  Modern English Grammar  
4 hours; 4 credits  
The structure of English sentences, examined from both the transformational and traditional points of view.  
Prerequisite: ENG 151

ENL 424  Language Change  
4 hours; 4 credits  
How languages change and why, using the English language and the Indo-European family as examples.  
Prerequisite: ENG 151

ENL 425  History of the English Language  
4 hours; 4 credits  
How the sounds, grammar, spelling, and words of English came to be the way they are.  
Prerequisite: ENG 151

ENL 426  Language Acquisition and Psycholinguistics  
(Also LNG 426)  
4 hours; 4 credits  
The course examines issues in psycholinguistics, especially those related to native, foreign, and second language acquisition: How is language learned? How do we acquire a second language? What are the characteristics of successful language learning?  
Prerequisites: ENG 151

ENL 427  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.  
Prerequisite: ENG 151

Speech Courses  
These courses are intended for students who have completed their requirements in English and wish additional electives, for students majoring in English, and for students wishing a minor in Speech.

ENL 112  Public Speaking  
3 hours; 3 credits  
A basic course in public speaking, with emphasis on student performance.

ENL 212  Discussion and Debate  
3 hours; 3 credits  
Techniques of leading and participating in group discussions, and the principles and practice of debating. Parliamentary rules of order are covered.  
Pre- or corequisite: ENG 111

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.  
Prerequisite: An ENH 200-level course

ENL 312  Theories of Mass Media  
(Also COM 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

ENL 412  Broadcast Journalism  
(Also COM 412)  
4 hours; 4 credits  
An introduction to the theory, history, and practice of modern newscasting. Special emphasis will be placed on preparing material for broadcast on radio and television. 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.  
Prerequisite: ENG 151; COM 100 is recommended
Department of Modern Languages
Chair, Professor Kathryn Talarico, English, Speech, and World Literature/Modern Languages Building (2S), Room 109

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

Minor
At least 12 credits of courses at the 200 level or above.

Courses

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 Modern Languages Media Center is required.

FRN 102  French Conversation II
2 hours; 2 credits
A continuation of FRN 101. Regular attendance in the Modern Languages Media Center is required.
Prerequisite: FRN 101 or equivalent

FRN 113  Basic French 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 Media Center is required. (foreign lang.)
Prerequisite: Passing the CUNY/ACT Reading and Writing tests

FRN 114  Basic French II
4 hours; 4 credits
A continuation of FRN 113. Regular attendance in the Modern Languages Media Center is required. (foreign lang.)
Prerequisite: FRN 113 or equivalent; Passing the CUNY/ACT Reading and Writing tests

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 Modern Languages Media Center is required. (foreign lang.)
Prerequisite: FRN 213 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 Modern Languages Media Center is required. (foreign lang.)
Prerequisite: FRN 215 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 Modern Languages Media Center is required.
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)
Prerequisite: FRN 313 or equivalent

FRN 350  The Feminist Challenge in French Literature
(Also WMS 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 Stæl, George Sand, Colette, Simone de Beauvoir, Françoise Sagan, Nathalie Sarratute. Taught in French. (literature)
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)
Prerequisite: FRN 313 or equivalent for those doing readings and assignments in French; ENG 151 or a former ENG 200 course 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)
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)
Prerequisite: FRN 313 or equivalent
GEOGRAPHY

(Minor)
Department of Political Science, Economics, and Philosophy
Coordinator: Associate Professor Deborah Popper, History/Political Science, Economics, and Philosophy Building (2N), Room 238

Minor Requirements: 15 credits
- GEG 100 Introduction to Geography 3 credits
- At least 12 credits at or above the 200 level.

Courses

GEG 100 Introduction to Geography
3 hours; 3 credits
Fundamental relationships between people and Earth are explored through examination of different world regions. The course covers variations in climate, agriculture, resources, economic, cultural, and political phenomena. (social science)

GEG 220 Geography of Western Europe
4 hours; 4 credits
Demographic, economic, and political effects on the nations of Western Europe of the intraregional variations in such fundamental geographic factors as geomantic position, climate, soils, minerals, and elevation. Emphasis on selected nations in the context of 20th-century industrial development.

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. (social science)
Prerequisite: ENG 111 and 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. (social science)
Prerequisite: ENG 111

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. (cont. wld.)
Prerequisites: ENG 151, COR 100

GEOLOGY

(Minor)
Department of Engineering Science and Physics
Chair: Associate Professor Syed A. Rizvi, Computer Science/Engineering Sciences and Physics Building (1N), Room 226

Pre-minor Requirements: 8 credits
- GEO 100 Physical Geology 3 credits
- GEO 101 Physical Geology Laboratory 1 credit
- GEO 102 Historical Geology 3 credits
- GEO 103 Historical Geology Laboratory 1 credit
Minor Requirements: 15 credits

GEO 105 Environmental Geology 4 credits
GEO 220 General Geophysics 3 credits
GEO 320 Invertebrate Paleontology 4 credits
GEO 322 Structural Geology 4 credits

GEO 100 Physical Geology
3 hours; 3 credits
Materials, structure, and behavior of the Earth's crust. Description of streams, atmosphere, ground water, glaciers, and oceans, with a discussion of the erosional and depositional work of each. Participation in scheduled field trips is required. (science)
Prerequisite: MTH 020 or an appropriate score on the CUNY Mathematics Assessment Test
Corequisite: GEO 101

GEO 101 Physical Geology Laboratory
2 laboratory hours; 1 credit
Physical properties and identification of minerals; igneous, sedimentary, and metamorphic rock identification. Maps and interpretation of geomorphological features. (science)
Corequisite: GEO 100

GEO 102 Historical Geology
3 hours; 3 credits
Geologic history of the Earth. 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. (science)
Prerequisite: MTH 020 or an appropriate score on the CUNY Mathematics Assessment Test
Corequisite: GEO 102

GEO 103 Historical Geology 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)
Corequisite: GEO 103

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 field trips is required. (science)
Prerequisite: MTH 020 or an appropriate score on the CUNY Mathematics Assessment Test
Corequisite: GEO 101

The following courses are available through independent study. Contact Assistant Professor A. Ohan, Department of Engineering Science and Physics.

GEO 220 General Geophysics
3 hours; 3 credits
Prerequisites: GEO 100, PHY 110 or 120, or permission of the instructor

GEO 320 Invertebrate Paleontology
3 class hours, 3 laboratory hours; 4 credits
Prerequisites: GEO 100 or 102

GEO 322 Structural Geology
3 class hours, 3 laboratory hours; 4 credits
Prerequisites: GEO 100 or 102

HEALTH EDUCATION COURSE

Department of Nursing
Chair: Associate Professor Mary O'Donnell, Marcus Hall (5S), Room 213
The following 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.

HISTORY

(Bachelor of Arts, Minor; Master of Arts, see Graduate Catalog)
Department of History
Chair: Associate Professor Howard Weiner, History/Political Science, Economics, and Philosophy Building (2N), Room 215

History (BA)

General Education Requirements for the BA
ENG 111, ENG 151, COR 100, PED 190: 12 credits
Whenever possible, these four courses should be completed within the first 36 credits.

Scientific Analysis; Social Scientific Analysis; The Contemporary World; Textual, Aesthetic, and Linguistic Analysis; Pluralism and Diversity requirements: 28-47 credits
Whenever possible, these courses should be completed within the first 60 credits.

1. Scientific Analysis: (11 credits)
   a. Science and Technology: (8 credits)
   b. Mathematics: (3 credits)
2. Social Scientific Analysis: (7-8 credits)
3. The Contemporary World: (4 credits)
4. Textual, Aesthetic, and Linguistic Analysis: (6-8 credits)
   a. Literature: 200-level
   b. Arts and Communications: 100-level
      Arts and Communications: 200-level
5. Pluralism and Diversity Requirement: (0-4 credits)
6. Foreign Language: (0-12 credits)
See section on general education requirements for approved course lists and complete details.
Major Requirements: 36 credits

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<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>
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<tr>
<td>HST 401</td>
<td>Seminar in Advanced Historical Study</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

A 200-level geography course may be used to meet this 24-credit 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.

Electives: 25-44 credits

Total Credits Required: 120

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.

Note: Students interested in becoming secondary school teachers should refer to the Adolescence Education section of this Catalog for academic major and education requirements.

Honors

To graduate with Honors in the History major, a student must have a minimum of 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 HSS 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 and a second reader appointed by the coordinator for Honors in History.

Courses

HST 100 Past and Present

An interdisciplinary approach to historical experience since the Renaissance, with particular emphasis on significant themes and events and on concepts such as freedom, power, social roles, bureaucracy, and historical cycles. (social science)

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)

Prerequisite: Successful completion of CUNY/ACT Reading Skills Test. 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 AFA 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)

HST 182 Women's History and Feminist Theory

(Also WMS 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)

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)

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)

Prerequisites: ENG 111, and COR 100 or any college-level history course

HST 203 The World since 1914

4 hours; 4 credits

Major political, economic, social, and cultural developments beginning with World War I. The course will focus on the processes of decolonization and modernization around the world. (cont. wld.)

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)

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. (p&d)
Prerequisites: ENG 151, and COR 100 or any college-level history course

HST 207  History of Africa
(Also AFA 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. (p&d)
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. (p&d)
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. (p&d)
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. (p&d)
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)
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)
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 eighteenth 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 history course. (social science) (p&d)
Prerequisite: ENG 111, and COR 100 or any college-level history course

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)
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)
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)
Prerequisites: ENG 111, and COR 100 or any college-level history course
HST 217  Introduction to Women’s History
(Also WMS 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)
Prerequisites: 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 principate, 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)
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)
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 to ca. 1300) in relation to the historical background; special emphasis 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 as a pre-1700 history course. (social science)
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 as a United States history course. (social science)
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 interpretations 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. (p&d)
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)
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; 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)
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)
Prerequisites: ENG 111, and COR 100 or any college-level history course

HST 226  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)
Prerequisites: ENG 111, and COR 100 or any college-level history course

HST 227  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)
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)
Prerequisites: ENG 111, and COR 100 or any college-level history course
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 heritages; 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. (p&d) 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. Emphasis 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) 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) 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. (p&d) Prerequisites: A minimum GPA of 2.75; 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. (p&d) Prerequisites: A minimum GPA of 2.75; ENG 111 and ENG 151

HST 244 United States History: 1607-1865
4 hours; 4 credits
An examination of American society 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) 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 American society 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, Feminist movement, and the Vietnam War. For History majors and minors, this is designated as a United States history course. (social science) 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) 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) 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) 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) 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) 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
The growth of the American economy; analysis of the components of growth: capital, labor, and government. For History majors and minors, this is designated as a United States history course. 
Prerequisites: ECO 101, ENG 111, and COR 100 or 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. 
Prerequisite: 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)
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)
Prerequisites: ENG 111, and COR 100 or any college-level history course

HST 262  African American History: 1619-1865
(Also AFA 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)
Prerequisites: ENG 111, and COR 100 or any college-level history course

HST 263  African American History: 1865 to the Present
(Also AFA 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)
Prerequisites: ENG 111, and COR 100 or any college-level history course

HST 265  History of the Caribbean
(Also AFA 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)
Prerequisites: ENG 111, and COR 100 or any college-level history course

HST 266  Peoples and Cultures of Africa
(Also AFA 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. (p&d)
Prerequisites: ENG 111, and COR 100 or any college-level history course

HST 269  Blacks in Urban America: 1900-Present
(Also AFA 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)
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)
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. (cont. wld.)
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, fascism, and division into two states. 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. (cont. wld.)
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)
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)
Prerequisites: ENG 111, and COR 100 or any college-level history course
HST 276 History of Italy
4 hours; 4 credits
A study of Italy from the Renaissance to the present, examining Italian contributions to the formation of Western ideals and culture, the role of Italian cities in early capitalism and world expansion, the creation of Italy as a nation, and Italy's contribution to the development of fascism and Euro-communism. For History majors and minors, this is designated as a modern European history course. (social science)
Prerequisites: ENG 111, and COR 100 or any college-level history course

HST 277 Europe: 1815-1914
4 hours; 4 credits
A study of European civilization at the height of its vitality and world power; the evolution of mature capitalism; the transformation of society and the reorganization of power; 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; the complex organization of international affairs that collapsed in 1914. For History majors and minors, this is designated as a modern European history course. (social science)
Prerequisites: ENG 111, and COR 100 or any college-level history course

HST 278 Twentieth-Century Europe
4 hours; 4 credits
A study of selected aspects of European civilization in the 20th century. Major themes of the age, which run from the origins of World War I to the Cold War, will be selected for discussion. These will include such topics as the emergence of technocracy and the welfare state, the rise of fascism, the communist revolutions, the impact of modern warfare, European imperialism, irrationalism, and existentialism. For History majors and minors, this is designated as a modern European history course. (cont. wld)
Prerequisites: ENG 151, and COR 100 or any college-level history course

HST 279 Introduction to the Balkans: 1699 to Present
4 hours; 4 credits
Overview of the main influences from both East and West in southeastern Europe with the goal of understanding conflicts and bases for unity in the area today. 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 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 relativism. 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 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 WMS 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) (pad)
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 West and the World: The Americas Encounter Europe
4 hours; 4 credits
A comparative and cross-cultural study of the consequences of encounters among indigenous populations of the Americas, Europeans, and Africans. This course examines pre-Columbian historical development in the Americas, the European historical contexts of expansion and empire, moments of contact between Europe and the Americas, patterns of empire and settlement, patterns of acceptance and resistance on the part of indigenous cultures to European empires, and the social and historical legacies of Old and New World cultures, and the historical development of diverse social and political systems in the Western hemisphere.
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 natures of multicultural societies in the Middle Ages. For History major 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 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 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 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 a designated 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 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 in 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 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 335 Society and Culture in the United States
(Also AMS 335)
4 hours; 4 credits
Major artistic and intellectual developments in America from the eighteenth 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 American 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 American 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 American 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 America’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 American 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 America’s 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 media, the youth gangs of the 50s, the Civil Rights movement and rising expectations, the suburban dream, the cult of the automobile, the fear of atomic disaster, the sexual revolution, and changing patterns of child rearing. For History majors and minors, this is designated as a United States history course.
Prerequisites: Any 200-level history course and ENG 151

HST 349 United States History since 1945
4 hours; 4 credits
A survey of U.S. cultural, social, political, and diplomatic history from the conclusion of World War II to the present. For History majors and minors, this is designated as a United States history course.
Prerequisites: Any 200-level history course and ENG 151

HST 350 Comparative Urban History
4 hours; 4 credits
A study of urban life in various periods and societies with a view toward spelling out similarities and differences. For History majors and minors, this is designated as a United States history course.
Prerequisites: Any 200-level history course and ENG 151
HST 361 The Heritage of Marcus Garvey and W.E.B. DuBois
(Also AFA 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. For History majors and minors, this is designated as a United States history course. (p&d)
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 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 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 "isms" that developed from the French Revolution to the mid-20th century, analyzing their historical context and content. Such topics as liberalism, conservatism, socialism, nationalism, imperialism, communism, and fascism will be considered. 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 WMS 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. (p&d)
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 century. 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 WMS 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. (p&d)
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
An advanced course in the reading of classic works of history, combined with research on an individual student project. Required of all majors in their senior year. Open, by permission of the instructor, to seniors in other majors with the appropriate background. In alternate semesters the course material will be drawn from American and World history.
Prerequisites: HST 200, HST 300, and any additional 300-level history course
HONORS COLLEGE

Director: Professor Susan Holak, South Administration Building (1A), Room 206

The CUNY 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 during the first two years of study. 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. Classwork involves field study; independent and collaborative research experience, and study-abroad opportunities, as well as participation in cross-campus events involving students from all CUNY Honors College campuses. Third- and fourth-year University Scholars pursue study in a wide range of majors in which they are required to achieve departmental honors.

Students accepted into the Honors College receive a comprehensive package of financial and academic assistance including full tuition reimbursement for four years, an academic stipend to defray travel and internship expenses, and a cultural passport providing free or discounted admission to New York’s diverse cultural offerings. CSI’s Honors College staff includes a full-time academic advisor and a professional counselor. University Scholars benefit from personalized and individualized attention ranging from early, priority course registration to ongoing academic and career advisement. Local and CUNY-wide initiatives provide University Scholars with opportunities to successfully complete for prestigious internships, fellowships, and admission to post-graduate programs. CSI’s Honors College also houses a student lounge and a designated computer lab for student use.

Admission to the Honors College:

Students who are entering college for the first time may apply for admission to the CUNY Honors College at CSI. Applicants are expected to have an academic diploma with an average of at least 90. The admissions committee for the 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 CUNY Honors College: University Scholars Program admission process are available online at: www.cuny.edu/honorscollege

Requirements:

For a detailed list of program requirements, please contact the Honors College office, 1.718.982.2222.

Honors College Courses

HSSH 101  The American Experience: Humanities
4 hours; 4 credits
A writing-intensive introduction to selected areas and topics of the American experience through the humanities; the specific focus will be determined by the instructor.
Prerequisite: Admission to the Honors College

HSSH 121  The Arts in New York City
4 hours; 4 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.
Prerequisite: First semester standing in the CUNY Honors College: University Scholars Program

HSSH 122  The Peopling of New York
4 hours; 4 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.
Prerequisite: Second semester standing in the CUNY Honors College: University Scholars Program

HSSH 205  The Non-Western Experience: Humanities
4 hours; 4 credits
A writing-intensive introduction to selected areas and topics of the non-Western experience through the humanities; the specific focus will be determined by the instructor.
Prerequisite: Admission to the Honors College

HSSH 206  The Non-Western Experience: Social Sciences
4 hours; 4 credits
A writing-intensive introduction to selected areas and topics of the non-Western experience through the social sciences; the specific focus will be determined by the instructor.
Prerequisite: Admission to the Honors College

HSSH 224  Shaping the Future of New York City
4 hours; 4 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. (social science)
Prerequisite: Fourth semester standing in the CUNY Honors College: University Scholars Program

HONORS SEMINAR

Interdisciplinary course
Division of Humanities and Social Sciences

In addition to the senior seminars offered by some disciplines for their majors, the Division of Humanities and Social Sciences sponsors a course designed to bring talented juniors and seniors together in a common intellectual experience.

HSS 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. In 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 original research leading to an article-length paper. Prerequisites: Matriculation in one of the disciplines under the aegis of the Division of Humanities and Social Sciences; completion of 64 credits; selection by a faculty committee.

INFORMATION SYSTEMS

(Bachelor of Science)

Co-coordinators: Professor Max Gottlieb, Business Building (3N), Room 208, Department of Business; Ms. Roberta Klibaner, Computer Science/Engineering Science and Physics Building (1N), Room 208, Department of Computer Science.

The program in Information Systems, offered as an interdisciplinary collaboration between the Departments of Business and Computer Science, prepares undergraduate students to enter business with advanced quantitative skills and a sophisticated understanding of technology. In addition, it offers an opportunity for professional development for students who have already started a career. Graduates of the program will be able to traverse the boundary between management and computer information technology; to plan organizational change, advise in the development of information systems, participate in their implementation, and interpret analytical and statistical models and data.

Responding to changes in business and technology, the program in Information Systems is designed to prepare students for careers as systems analysts, programmer analysts, and designers; data administrators; information systems consultants; and managers in information technology.

In designing the curriculum, faculty in the departments have followed guidelines from the following professional organizations: the Association for Computing Machinery, the Data Processing Management Association, the International Conference on Information Systems, and the Association for Information Systems.

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.

Information Systems (BS)

General Education Requirements for the BS

ENG 111, ENG 151, COR 100, PED 190: 12 credits

Whenever possible, these four courses should be completed within the first 36 credits.

Scientific Analysis; Social Scientific Analysis; The Contemporary World; Textual, Aesthetic, and Linguistic Analysis; Pluralism and Diversity requirements: 28-35 credits

Whenever possible, these courses should be completed within the first 60 credits.

1. Scientific Analysis: (11 credits)
   a. Science and Technology: (8 credits)
   b. Mathematics: (3 credits)
2. Social Scientific Analysis: (7-8 credits)
3. The Contemporary World: (4 credits)
4. Textual, Aesthetic, and Linguistic Analysis: (6-8 credits)
   a. Literature: 200-level
   b. Arts and Communications: 100-level
   c. Arts and Communications: 200-level
5. Pluralism and Diversity: (0-4 credits)

Pre-Major Requirements: 18 credits

Pre-major requirements that count toward general education requirements are marked with an asterisk (*).

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<th>Course Title</th>
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<tr>
<td>ACC 114</td>
<td>Introduction to Accounting I</td>
<td>4</td>
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<td>ACC 121</td>
<td>Introduction to Accounting II</td>
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<td>CSC 135</td>
<td>Introduction to Information Systems</td>
<td>3</td>
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<tr>
<td>CSC 126</td>
<td>Introduction to Computer Science</td>
<td>4</td>
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<td>ECO 101*</td>
<td>Economics</td>
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<td>MGT 110</td>
<td>Organizational Theory and Management</td>
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<td>MTH 229*</td>
<td>Calculus Computer Laboratory</td>
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<td>MTH 231*</td>
<td>Analytic Geometry and Calculus</td>
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Major Requirements: 61 credits

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<tr>
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<td>BUS 205</td>
<td>Data Communications and Networks for Business or</td>
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<td>CSC 435</td>
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<td>BUS 211</td>
<td>Principles of Corporate Communication</td>
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<td>BUS 230/</td>
<td></td>
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</tr>
<tr>
<td>ECO 231</td>
<td>Quantitative Analysis of Business and Economic Problems</td>
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<tr>
<td>BUS/</td>
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<tr>
<td>PHL 238</td>
<td>Ethical Issues in Business and Society</td>
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<tr>
<td>BUS 334</td>
<td>Decision Support Systems</td>
<td>4</td>
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<tr>
<td>BUS 352</td>
<td>Introduction to Systems Analysis</td>
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</tr>
<tr>
<td>BUS/</td>
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<tr>
<td>CSC 405</td>
<td>Applied Concepts in Information Systems</td>
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</tr>
<tr>
<td>CSC 310</td>
<td>Input/Output Operations and File Management</td>
<td>4</td>
</tr>
<tr>
<td>CSC 326</td>
<td>Information Structures</td>
<td>4</td>
</tr>
<tr>
<td>CSC 334</td>
<td>Computer System Fundamentals</td>
<td>4</td>
</tr>
<tr>
<td>ECO 210</td>
<td>Price Theory</td>
<td>4</td>
</tr>
<tr>
<td>ECO/</td>
<td></td>
<td></td>
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<tr>
<td>MGT 230</td>
<td>Introduction to Managerial and Economic Statistics</td>
<td>4</td>
</tr>
<tr>
<td>ECO/</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FNC 240</td>
<td>Managerial Finance I</td>
<td>3</td>
</tr>
</tbody>
</table>

One additional course chosen from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 330</td>
<td>Object-Oriented Software Engineering</td>
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</tr>
<tr>
<td>CSC 332</td>
<td>Operating Systems</td>
<td>4</td>
</tr>
<tr>
<td>CSC 424</td>
<td>Database Management Systems</td>
<td>4</td>
</tr>
<tr>
<td>CSC 435</td>
<td>Advanced Data Communications</td>
<td>4</td>
</tr>
<tr>
<td>CSC 470</td>
<td>Introductory Computer Graphics</td>
<td>4</td>
</tr>
<tr>
<td>CSC 482</td>
<td>Discrete Simulation</td>
<td>4</td>
</tr>
<tr>
<td>MGT 320</td>
<td>Management of Organizational Behavior</td>
<td>4</td>
</tr>
<tr>
<td>MGT 410</td>
<td>Business Policy</td>
<td>4</td>
</tr>
<tr>
<td>MGT 416</td>
<td>Decision Making in Business</td>
<td>4</td>
</tr>
</tbody>
</table>

Electives: 0-7

Total credits: 120
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. See chapters on Business and Computer Science for course descriptions.

INTEGRATED SCIENCE COURSES
Department of Engineering Science and Physics
Chair: Professor Syed A. Rizvi, Computer Science/Engineering Science and Physics Building (1N), Room 226
Department of Chemistry
Chair: Associate Professor John Olsen, Biological Sciences/Chemical Sciences Building (6S), Room 235

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)
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
Acting Coordinator: Assistant Professor Jane Marcus-Delgado, Department of Modern Languages; English, Speech, and World Literature/Modern Languages Building (2S), Room 101
This 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)
General Education Requirements for the BA
ENG 111, ENG 151, COR 100, PED 190: 12 credits
Whenever possible, these four courses should be completed within the first 36 credits.

Scientific Analysis; Social Scientific Analysis; The Contemporary World; Textual, Aesthetic, and Linguistic Analysis; Pluralism and Diversity requirements: 28–47 credits
Whenever possible, these courses should be completed within the first 60 credits.
1. Scientific Analysis: (11 credits)
   a. Science and Technology: (8 credits)
   b. Mathematics: (3 credits)
2. Social Scientific Analysis: (7-8 credits)
3. The Contemporary World: (4 credits)
4. Textual, Aesthetic, and Linguistic Analysis: (6-8 credits)
   a. Literature: 200-level
   b. Arts and Communications: 100-level
   Arts and Communications: 200-level
5. Pluralism and Diversity Requirement: (0-4 credits)
6. Foreign Language: (0-12 credits)*
See section on general education requirements for approved course lists and complete details.

*Language Requirement:
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>Introduction to International Studies</td>
<td>3</td>
</tr>
<tr>
<td>ECO 101</td>
<td>Introduction to Economics</td>
<td>3</td>
</tr>
<tr>
<td>GEG 100</td>
<td>Introduction to Geography</td>
<td>3</td>
</tr>
<tr>
<td>HST 100</td>
<td>Past and Present</td>
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<td></td>
<td>or</td>
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<tr>
<td>POL 103</td>
<td>Understanding the Political World</td>
<td>3</td>
</tr>
</tbody>
</table>
Major Requirements: 36 credits
Within the major requirements at least 12 credits must be at the 300 level or above.

HST 239/  SLS 241 World Civilization II 4 credits
(Prerequisites for this course: a minimum GPA of 2.75; ENG 111 and ENG 151)
POL 260 International Politics: In Search of a New World Order 4 credits
ANT 225/ COM 225 Multicultural Literacy 4 credits

Three courses chosen from one of the following categories: (12 credits)

1. Economics/Geography
   ECO 250 International Economics
   GEG 250 Conservation and Humanity
   ECO/ GEG 252 Economic Geography
   ECO 256 Analysis of Underdeveloped Areas
   GEG 260 Urban Geography
   ECO 370 International Finance

2. Culture and Society
   ANT 370 Urban Anthropology
   ANT 460 Personality and Culture
   CIN 240 Third World Cinema
   ENH 206 Classics of Modern World Literature
   ENL 396 Studies in Global Literature I
   ENL 397 Studies in Global Literature II
   HST 382 War and Society
   HST 388 Imperialism
   INT 201 The World and the West: Contemporary Issues
   PHL 243 Comparative Religion

3. Political Science
   POL 240 Comparative Government
   POL 261 International Organizations
   POL/ GEG 264 Political Geography
   POL 342 Comparative Politics of Developing Countries
   POL 349 Comparative Human Rights
   POL 365 Current American Foreign Policy
   POL 375 International Law

Three courses chosen from one of the following geographical areas: (12 credits)

A. Three African/Middle East area courses that emphasize comparative or general issues chosen from the following:
   AFA 247/ HST 266 Peoples and Cultures of Africa
   AFA 260/ HST 207 History of Africa
   HST 235 Modern Middle East
   HST 290 Africa Encounters Europe
   HST 330 Nationalist Movements and the Process of Independence in Africa
   POL 252 Middle East Politics

B. Three Asian area courses that emphasize comparative or general issues chosen from the following:
   ECO 257 The Japanese Economy
   ENH 207 Classics of Asian Literature
   ENL 335 Modern Asian Literature
   HST 204 Introduction to Asian Civilization
   HST 206 Modern China
   HST 210 History of Modern India
   HST 315 The European Discovery of America and the Encounter with Native Peoples
   INT 201 Latin American Perspectives
   SPN 325 Civilization of Pre-Columbian Spanish America
   SPN 330 Civilization of Spanish America
   SPN 350 Introduction to Spanish American Literature
   SPN 455 Modern Spanish American Novel
   SPN 480 Literature of the Hispanic Caribbean
   ART 208 Twentieth-Century Art
   CIN 407 International Films I
   ENH 205 Classics of European Literature
   GEG 220 Geography of Western Europe
   HST 271 Modern British History: 1900 to the Present
   HST 272 Modern Germany
   HST 274 History of Modern Russia
   HST 276 History of Italy
   HST 375 Economic History of Soviet Russia
   HST 277 Europe: 1815-1914
   HST 278 Twentieth-Century Europe
   PHL 213 Existentialism
   POL 241 Western European Politics
   POL 244 Soviet People and Their World
   POL 303 Recent Political Theory
   POL 340 European Economic Community
   WMS/ LNG 256 Women and European Literature

Electives: 13-35 credits
Total Credits Required: 120 credits

Minor Requirements

INT 100 Introduction to International Studies 3 credits
ECO 250 International Economics 4 credits
POL 260 International Politics: In Search of a New World Order 4 credits
HST 239/ SLS 241 World Civilization II 4 credits
Students who minor in International Studies must take INT 200 The World and the West: Contemporary Issues, which qualifies in fulfillment of the Contemporary World requirement for general education.

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.

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)

**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. (cont. wld.) (p&d)
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 contributions, as well as the technological challenges facing this part of the world today. (cont. wld.)
Prerequisites: ENG 151 and COR 100

**ITALIAN**
Department of Modern Languages
Chair, Professor Kathryn Talarico, English, Speech, and World Literature/Modern Languages Building (2S), Room 109
See also listings under Languages and Romance Languages.
All students with prior training in Italian must take a proficiency examination to determine placement at an appropriate level.

**Minor**
At least 12 credits of courses at the 200 level or above.

**Courses**

**ITL 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 Modern Languages Media Center is required.

**ITL 102  Italian Conversation II**
2 hours; 2 credits
A continuation of ITL 101. Regular attendance in the Modern Languages Media Center is required.
Prerequisite: ITL 101 or equivalent

**ITL 113  Basic Italian I**
4 hours; 4 credits
A beginning course in 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. (foreign lang.)
Prerequisite: Passing the CUNY/ACT Reading and Writing tests

**ITL 114  Basic Italian II**
4 hours; 4 credits
A continuation of ITL 113. Regular attendance in the Modern Languages Media Center is required. (foreign lang.)
Prerequisite: ITL 113 or one year of high school Italian or equivalent
Passing the CUNY/ACT Reading and Writing tests

**ITL 208  Italian for Native Speakers**
4 hours; 4 credits
For students fluent in spoken Italian but lacking experience in writing and reading the language.

**ITL 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 Modern Languages 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 Modern Languages Media Center is required. (foreign lang.)
Prerequisite: ITL 213 or equivalent

**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 Modern Languages Media Center is required.
Prerequisites: ITL 215 or equivalent

**ITL 320  Italian Civilization and Culture**
4 hours; 4 credits
A survey of the major contributions of Italian civilization in the fields of art, literature, and science, from its origins to the present day.
Prerequisite: ITL 313 or equivalent
ITAL 325  The Italian American Experience
4 hours; 4 credits
A survey of the major contributions of Italian Americans in the fields of art, literature, and science in the United States. Readings and assignments in Italian required for majors; readings and assignments may be done in English for non-majors.
Prerequisite: ITL 313 or equivalent for those doing readings and assignments in Italian; no prerequisite for those doing readings and assignments in English

ITAL 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)
Prerequisite: ITL 313 or equivalent

ITAL 440  Italian 19th-Century Literature
4 hours; 4 credits
An examination of major figures and their works in Italian 19th-century literature, from Foscolo and Leopardi to Manzoni and De Sanctis. (literature)
Prerequisite: ITL 313 or equivalent

ITAL 450  Modern Italian Literature
4 hours; 4 credits
Representative masterpieces of 19th- and 20th-century Italian literature from Manzoni to such other major contemporary authors as Leopardi, D'Annunzio, Carducci, Pirandello, Lampedusa, Silone, Moravia, Pavese, Quasimodo, and Montale. (literature)
Prerequisite: ITL 313 or equivalent

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 266  Women in European Literature to the Renaissance
(Also WMS 266)
4 hours; 4 credits
Women as writers and characters in European literature from classical antiquity to the Renaissance. (literature) (p&d)
Prerequisites: ENG 111, ENG 151

LNG 267  Women in European Literature after the Renaissance
(Also WMS 267)
4 hours; 4 credits
Women as writers and characters in European literature from the Renaissance to modern times. (literature) (p&d)
Prerequisites: ENG 111, ENG 151

LNG 387  Major World Author I
(Also ENL 387)
4 hours; 4 credits
Intensive study of the works of a major world author.
Prerequisite: An ENH 200-level course

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.
Prerequisite: An ENH 200-level course

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.
Prerequisite: An ENH 200-level course

LNG 396  Studies in Global Literature I
(Also ENL 396)
4 hours; 4 credits
Focus on literature from outside the U.S. and Europe. The specific emphasis will vary from semester to semester and will be announced in the Schedule of Classes. (p&d)
Prerequisite: An ENH 200-level course
LNG 397  Studies in Global Literature II
(Also ENL 397)
4 hours; 4 credits
Focus on literature from outside the U.S. and Europe. The specific emphasis will vary from semester to semester and will be announced in the Schedule of Classes. (p&d)
Prerequisite: An ENH 200-level course

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  Language Acquisition and Psycholinguistics
(Also ENL 426)
4 hours; 4 credits
The course examines issues in psycholinguistics, especially those related to native, foreign, and second language acquisition: How is language learned? How do we acquire a second language? What are the characteristics of successful language learning?
Prerequisites: ENG 111, ENG 151

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.

General Education Requirements for the AA
ENG 111, ENG 151, COR 100, PED 190: 12 credits
Whenever possible, these four courses should be completed within the first 36 credits.

Scientific Analysis; Social Scientific Analysis; The Contemporary World; Textual, Aesthetic, and Linguistic Analysis; Pluralism and Diversity requirements: 21-31 credits
Whenever possible, these courses should be completed within the first 36 credits.
1. Scientific Analysis: 12-15 credits chosen from the following
   a. 8 credits chosen from one of the following sequences:
      AST 100, 101, 102, 103 Astronomy I and II
      BIO 170, 171, 180, 181 General Biology I and II
      CHM 141, 142, 121, 127 General Chemistry I and II
      PHY 120, 121, 160, 161 General Physics I and II
      GEO 100, 101, and GEO 102, 103 or 105 Geology
   b. 4-7 credits chosen from the following:
      MTH 230, 229 Calculus I with Pre-Calculus
      MTH 231, 229 Analytic Geometry and Calculus I
2. Social Scientific Analysis (3-4 credits)
3. The Contemporary World (4 credits)
4. Textual, Aesthetic, and Linguistic Analysis (3-4 credits)
   a. Literature: 200-level
   b. Arts and Communications: 100-level
   c. Arts and Communications: 200-level
5. Pluralism and Diversity Requirement (0-4 credits)
See section on general education requirements for approved course lists and complete details.

LNG 397  Studies in Global Literature II
(Also ENL 397)
4 hours; 4 credits
Focus on literature from outside the U.S. and Europe. The specific emphasis will vary from semester to semester and will be announced in the Schedule of Classes. (p&d)
Prerequisite: An ENH 200-level course

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  Language Acquisition and Psycholinguistics
(Also ENL 426)
4 hours; 4 credits
The course examines issues in psycholinguistics, especially those related to native, foreign, and second language acquisition: How is language learned? How do we acquire a second language? What are the characteristics of successful language learning?
Prerequisites: ENG 111, ENG 151

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.

General Education Requirements for the AA
ENG 111, ENG 151, COR 100, PED 190: 12 credits
Whenever possible, these four courses should be completed within the first 36 credits.

Scientific Analysis; Social Scientific Analysis; The Contemporary World; Textual, Aesthetic, and Linguistic Analysis; Pluralism and Diversity requirements: 21-31 credits
Whenever possible, these courses should be completed within the first 36 credits.
1. Scientific Analysis: 12-15 credits chosen from the following
   a. 8 credits chosen from one of the following sequences:
      AST 100, 101, 102, 103 Astronomy I and II
      BIO 170, 171, 180, 181 General Biology I and II
      CHM 141, 142, 121, 127 General Chemistry I and II
      PHY 120, 121, 160, 161 General Physics I and II
      GEO 100, 101, and GEO 102, 103 or 105 Geology
   b. 4-7 credits chosen from the following:
      MTH 230, 229 Calculus I with Pre-Calculus
      MTH 231, 229 Analytic Geometry and Calculus I
2. Social Scientific Analysis (3-4 credits)
3. The Contemporary World (4 credits)
4. Textual, Aesthetic, and Linguistic Analysis (3-4 credits)
   a. Literature: 200-level
   b. Arts and Communications: 100-level
   c. Arts and Communications: 200-level
5. Pluralism and Diversity Requirement (0-4 credits)
See section on general education requirements for approved course lists and complete details.
Core Requirements: 11 credits:
8 credits chosen from the following:
AST 100, 101, 102, 103 Astronomy I and II with laboratories
BIO 170, 171, 180, 181 General Biology I and II with laboratories
CHM 141, 142, 121, 127 General Chemistry I and II with laboratories
PHY 120, 121, 160, 161 General Physics I and II with laboratories
GEO 100, 101, and GEO 102 or 103 or 105) Geology with laboratories
CSC 126 or 270 and CSC 220 or 228 Computer Science
and
3 credits chosen 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

Electives: 6-16 credits
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.

Total Credits Required: 60

MATHEMATICS
(Bachelor of Science in Mathematics, Mathematics/Computer Science, Preparation for Teaching in Grades 7–12, Minor; see also Computer Science-Mathematics (BS); see also Education/Adolescence Education Program.)
Chair: Professor Arundhati Raychaudhuri, Mathematics Building (1S), Room 215

Mathematics (BS)
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 Math-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.

General Education Requirements for the BS
ENG 111, ENG 151, COR 100, PED 190: 12 credits
Whenever possible, these four courses should be completed within the first 36 credits.

Scientific Analysis; Social Scientific Analysis; The Contemporary World; Textual, Aesthetic, and Linguistic Analysis; Pluralism and Diversity requirements: 21-27 credits
Whenever possible, these courses should be completed within the first 60 credits.
1. Scientific Analysis: (11 credits)
   a. Science and Technology: (8 credits)
      Two courses with laboratories chosen from one of the following sequences:
      BIO 170-171, 180-181 General Biology I and II with laboratories
      CHM 141-121, 142-127 General Chemistry I and II with laboratories
      PHY 120-121, 160-161 General Physics I and II with laboratories
      GEO 100-101, 102-103 Physical and Historical Geology with laboratories
   b. Mathematics: (3 credits)
      (Can be satisfied using courses MTH 102, 109, 113, 121, 123, 130, 214, 230, or 231)
2. Social Scientific Analysis: (3-4 credits)
3. The Contemporary World: (4 credits)
4. Textual, Aesthetic, and Linguistic Analysis: (3-4 credits)
   a. Literature: 200-level
   b. Arts and Communications: 100-level
   c. Arts and Communications: 200-level
5. Pluralism and Diversity Requirement: (0-4 credits)
See Degree Requirements general education for approved course lists and complete details.

Pre-Major Requirements: 14-17 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
(10 credits)
or
MTH 229 Calculus Computer Laboratory 1 credit
MTH 235 Accelerated Calculus I 5 credits
MTH 236 Accelerated Calculus II 5 credits
(11 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
(13 credits)
or
CSC 126 Introduction to Computer Science 4 credits
CSC 270 Introduction to Scientific Programming 4 credits

Major Requirements: 36 credits
MTH 311 Probability Theory and an Introduction to Mathematical Statistics 4 credits
MTH 330 Applied Mathematical Analysis I 4 credits
or
MTH 334 Differential Equations 4 credits
MTH 338 Linear Algebra 4 credits
Four additional mathematics courses (16 credits) at the 300 or 400 level chosen with the approval of an adviser.

Electives: 28-40 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 357, 360, 370, 415), Differential Equations and Dynamical Systems (MTH 331, 435), Numerical Analysis (MTH 355), or Mathematical Statistics (MTH 410, 411).

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. 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 Geometry, and MTH 306 History of Mathematical Thought. Students must also include as electives the following Adolescence Education (EDS) course sequence offered by the Department of Education (24 credits):

EDS 201 Social Foundations of Secondary Education 4 credits
EDS 202 Psychological Foundations of Secondary Education 4 credits
EDS 303 The Teaching of Secondary School Curriculum in Mathematics 4 credits
EDS 307 Discovery Learning and Interdisciplinary Instruction 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 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)
Students interested in a combined mathematics-computer science program should see the Computer Science-Mathematics (BS), a major administered jointly by the Departments of Computer Science and Mathematics. See Catalog section on Computer Science-Mathematics for requirements.

Minor
Prerequisite Courses
MTH 229 Calculus Computer Laboratory; MTH 231, MTH 232, MTH 233 Analytic Geometry and Calculus I, II, and III 10 credits
or
MTH 229 Calculus Computer Laboratory; MTH 235, MTH 236, Accelerated Calculus I and II 11 credits
or
MTH 229 Calculus Computer Laboratory; MTH 230, 232, 233 Calculus I with Pre-Calculus, Analytic Geometry and Calculus II, III 13 credits

Requirements:
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.

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. Minimum 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 considered not to be math proficient. These students are required to take the appropriate 0-level mathematics courses (MTH 020) 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.
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 minimum mathematics proficiency are eligible only for placement into a five hour section of MTH 020 and are not eligible to take any other mathematics courses until passing MTH 020.

Students who have minimum 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 a four-hour section of MTH 020.

Students who have minimum 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 course work 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 Calculus I with a pre-calculus component, MTH 230. In either case, however, students who need additional background in trigonometry are advised to take MTH 130.

d) Initial placement into all mathematics courses, including 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, described below.

Remedial and Developmental Mathematics Courses:
0-Level Courses in Mathematics

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. Math 020 is an entry-level elementary algebra course designed for students who do not have minimum mathematics proficiency or those with minimum proficiency who do not have a sufficiently high score on the PART II (Algebra) of the COMPASS 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.

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, 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 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) Technical calculus sequence: for students in Associate’s degree programs in technology. The courses MTH 123 College Algebra and Trigonometry and MTH 223 Technical Calculus are designed for students in two-year technology and career programs.

d) 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.

e) 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 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 020.
Prerequisites: An appropriate score on the CUNY proficiency/placement exam or permission of the Department of Mathematics

MTH 030 Intermediate Algebra
4 hours; 0 credits
Inequalities, absolute value, radical and fractional equations, systems of equations in two unknowns, two-by-two determinants, and scientific notation. Extensive treatment of word problems and an introduction to the use of the scientific calculator. Not open to students who have passed MTH 025.
Prerequisite: MTH 020 or an appropriate score on the CUNY proficiency/placement exam or permission of the Department of Mathematics

MTH 102 Mathematics for Liberal Arts Students
4 hours; 4 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)
Prerequisite: MTH 020 or an appropriate score on the CUNY proficiency/placement exam or permission of the Department of Mathematics

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 020 or an appropriate score on the CUNY proficiency/placement exam or permission of the Department of Mathematics

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)
Not open to students who have taken and successfully completed MTH 106.
Prerequisite: MTH 020 or an appropriate score on the CUNY proficiency/placement exam or permission of the Department of Mathematics

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)
Prerequisite: MTH 020 or MTH 108 or an appropriate score on the CUNY proficiency/placement exam or permission of the Department of Mathematics

MTH 121 Finite Mathematics
3 hours; 3 credits
Matrix algebra, applications of matrices to systems of linear equations and to business problems, determinants, Cramer's rule, graphing techniques, linear inequalities, linear programming, exponential and logarithmic functions, simple and compound interest. This course is intended primarily for business and economics students. (math)
Prerequisite: MTH 025 or MTH 030 or an appropriate score on the CUNY proficiency/placement exam or permission of the Department of Mathematics

MTH 123 College Algebra and Trigonometry
4 hours; 4 credits
Advanced topics in algebra, including inequalities and complex numbers. Logarithmic, exponential, and trigonometric functions; graphs and equations. Inverse functions. Elements of analytic geometry. (math)
Prerequisite: MTH 025 or MTH 030 or an appropriate score on the CUNY proficiency/placement exam or permission of the Department of Mathematics

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. Pre- 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, exponential functions, logarithmic functions, introduction to analytic geometry, inequalities, absolute value, theory of equations, binomial theorem, arithmetic and geometric series. (math)
Prerequisite: MTH 123 or an appropriate score on the CUNY proficiency/placement exam or permission of the Department of Mathematics

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)
Prerequisite: MTH 130 or MTH 221 or permission of the instructor

MTH 217 Fundamentals of Mathematics I
(Also SLS 217)
4 hours; 4 credits
A study of the basic elements of mathematical thought especially designed for students seeking certification as elementary school teachers. Topics include problem solving techniques, set theory, mathematical logic, number systems and their properties, numeration systems, and algorithms. Prerequisites: A minimum GPA of 2.75 and MTH 025 or MTH 030 or an appropriate score on the CUNY proficiency/placement exam or permission of the Department of Mathematics, and a 100-level mathematics general education course
MTH 218  Fundamentals of Mathematics II
(Also SLS 218)
4 hours; 4 credits
A continuation of MTH 217. Topics include number theory, probability, statics, introductory geometry, and concepts of measurements.
Prerequisites: A minimum GPA of 2.75, MTH/SLS 217

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 business and economics students.
Prerequisite: MTH 121 or the permission of the Department of Mathematics

MTH 223  Technical Calculus
4 hours; 4 credits
Elements of calculus. Differentiation and integration involving algebraic, trigonometric, logarithmic, and exponential functions. Applications to curve sketching, maximum-minimum, and physical problems. Introduction to series and differential equations.
Prerequisite: MTH 123 or an appropriate score on the CUNY proficiency/placement exam or permission of the Department of Mathematics

MTH 228  Discrete Mathematical Structures for Computer Science
(Also CSC 228)
3 class hours, 3 laboratory hours; 4 credits
An intermediate-level programming and 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. Programming projects will be related to mathematical topics. Compound data types, recursive programming and mathematical induction will be introduced.
Prerequisite: A grade of C or above in either CSC 126 or CSC 270; 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.
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 differentiation and integration techniques with applications. (math)
Prerequisite: MTH 123 with a grade of B or better or an appropriate score on the CUNY proficiency/placement exam or permission of the Department of Mathematics
Corequisite: MTH 229

MTH 231  Analytic Geometry and Calculus I
4 hours; 5 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)
Prerequisite: MTH 123 with a grade of A or MTH 130 or an appropriate score on the CUNY proficiency/placement exam or permission of the Department of Mathematics
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 representative of curves.
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.
Prerequisite: MTH 232
Pre- or corequisite: MTH 229 or permission of the department

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)
Prerequisite: MTH 130 or an appropriate score on the CUNY proficiency/placement exam or permission of the Department of Mathematics
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, 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. Linear algebra, ordinary differential equations, eigen value problems, transforms, and special functions.
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
Permutations 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 233 or MTH 236

MTH 338 Linear Algebra
4 hours; 4 credits
Determinants, matrices, and systems of linear equations; linear dependence; vector spaces; eigenvalues and eigenvectors; matrix equations; linear transformations; convex sets; applications to problems in physics, engineering, economics, and social sciences.
Prerequisite: MTH 232
Pre- or corequisite: MTH 233

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 or permission of the instructor

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
Divisibility, prime numbers, Euclidean algorithm, residue classes, modulo n, Chinese remainder theorem, mathematical induction, quadratic reciprocity, solutions of systems of congruence equations, and Lagrange's theorem.
Prerequisite: MTH 233 or MTH 236

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
Use of linear programming in minimization and maximization problems
and the solution of such problems by computer. Topics will include convex
sets, linear inequalities, the simplex method, duality, degeneracy
procedures, and the transportation model.
Prerequisites: MTH 338 and CSC 126 or CSC 270

MTH 410  Mathematical Statistics I
4 hours; 4 credits
A course in the basic concepts of applied mathematical statistics:
parametric models, estimation, confidence intervals, hypotheses testing.
Prerequisite: MTH 311

MTH 411  Mathematical Statistics II
4 hours; 4 credits
A continuation of MTH 410, topics in applied mathematical statistics
including regression and correlation, the linear model, analysis of
variance, randomized block designs, 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 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 251 or equivalent, MTH 229, and one BIO
300-level course

MTH 431  Complex Analysis
4 hours; 4 credits
Functions of a complex variable; Cauchy integral theorem; power series,
residues, and poles; elementary conformal mapping. Applications to
topics 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, nonlinear oscillation, phase plane
analysis, limit cycles. Poincare and Lienerard theorems. Lorenz equations
and chaos, strange attractors, the logistic equation, period doubling,
fractals. Applications are to problems in biological and physical systems
and engineering science. The course will make extensive use of computers.
Prerequisite: MTH 330

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,
biological, and societal phenomena using modern mathematical methods.
In particular, emphasis will be placed on three prototypical modeling
paradigms: dynamical systems, statistical/probabilistic modeling, and
optimization.
Prerequisite: Differential equations and linear algebra (MTH 330 or
equivalent) or mathematical probability (MTH 311 or equivalent) or
permission of the instructor.

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 lattices; theory of cardinal and ordinal
numbers; well-ordered sets and transfinite induction; Boolean rings;
mathematical logic.
Prerequisite: MTH 339 or 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; topological spaces, mappings, subspaces, homomorphisms,
metric spaces.
Prerequisite: MTH 253 or 256

MTH 442  Abstract Algebra
4 hours; 4 credits
The algebra of sets, mappings and equivalence relations, elementary
number theory; group theory—subgroups, homomorphisms, isomorphisms,
the fundamental theorems; ring theory—ideals and quotient rings, integral
domains, division rings; fields.
Prerequisite: MTH 339

MEDICAL LABORATORY TECHNOLOGY
(Associate in Applied Science)
Department of Biology
Chair: Professor Richard Veit, Biological Sciences/Chemical Sciences
Building (6S), Room 143
This program prepares its graduates for employment as medical laboratory
teachers in hospitals, clinics, physicians’ offices, public health agencies,
the armed forces, industrial and pharmaceutical medical laboratories, and
public and private medical research programs.

Medical Laboratory Technology (AAS)
Department Chair: Professor Jacqueline LeBlanc
Medical Director: Dr. Rudolph Howard
Graduates of the program may continue in the BS in Medical Technology
program offered by the College of Staten Island.
General Education Requirements:
*ENG 111, ENG 151, PED 190: 8 credits*
Whenever possible, these three courses should be completed within the first 36 credits.

Scientific Analysis and Social Scientific Analysis: 17-18 credits
1. **Scientific Analysis:** (11-12 credits)
   a. Science: (8 credits)
      - 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
      - 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
   b. Mathematics: (3-4 credits)
      - MTH 123 College Algebra and Trigonometry 4 credits
      - or
      - MTH 130 Pre-Calculus Mathematics 3 credits

2. **Social Scientific Analysis:** (6 credits)
   - PSY 100 Introduction to Psychology 3 credits
   - PHL 130 Introduction to Ethics 3 credits
   
*a) BIO 150 and BIO 160 may substitute for BIO 170 and BIO 180 but cannot be used to satisfy the Scientific Analysis Requirement.
b) BIO 170 and BIO 171 or BIO 150, CHM 141 and CHM 121, MTH 123 or MTH 130, and ENG 111 satisfy Pre-Medical Laboratory Technology sequence requirements. A 2.5 grade point average in the Pre-MLT sequence is required for admission to the Medical Laboratory Technology program. Students may repeat courses, if necessary.
c) BIO 180 and 181 or BIO 160, and CHM 142 and 127 will satisfy Core requirements.

**Pre-MLT Sequence:** 14 credits
- BIO 170 General Biology I 3 credits
- BIO 171 General Biology I Laboratory 1 credit
- CHM 141 General Chemistry I 3 credits
- CHM 121 General Chemistry Laboratory 1 credit
- ENG 111 Communications Workshop 3 credits
- MTH 123 College Algebra and Trigonometry 3-4 credits
  or
- MTH 130 Pre-Calculus Mathematics 3 credits

A 2.5 grade point average in the Pre-MLT sequence will be required for admission into the Medical Laboratory Technology program. Students will be allowed to repeat courses, if necessary.

**Core Requirements:** 44 credits
- BIO 180 General Biology II 3 credits
- BIO 181 General Biology II Laboratory 1 credit
- BIO 205 General Physiology 4 credits
- BIO 314 General Microbiology 4 credits
- BIO 316 Clinical Microbiology 4 credits
- CHM 142 General Chemistry II 3 credits
- CHM 127 General Chemistry II Laboratory 1 credit
- MDT 100 Hematology 4 credits
- MDT 160 Clinical Science 4 credits
- MDT 265** Hospital Laboratory Practice (Hematology) 3 credits
  - MDT 275** Hospital Laboratory Practice (Blood Bank) 3 credits
  - MDT 285** Hospital Laboratory Practice (Microbiology) 3 credits
  - MDT 295** Hospital Laboratory Practice (Clinical Chemistry, Urinalysis) 3 credits
  - MDT 310 Blood Transfusion Technology 4 credits

**Three credits each but all four courses must be successfully completed before credit will be awarded. Required for the AAS Medical Laboratory Technology degree and for the New York City Department of Health Permit or the national certifying examinations.**

**Total Credits Required: 69**

Liberal Arts and Sciences Requirement
All courses designated MDT, and BIO 316, are non-liberal arts and sciences.

Clinical laboratory experience is provided through the cooperation of the following affiliated hospitals:
- St. Vincent’s Medical Center of Richmond
- Staten Island University Hospital
- Doctors’ Hospital of Staten Island

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**MEDICAL TECHNOLOGY**

*(Bachelor of Science)*

Interdisciplinary Program
Coordinator: Associate Professor Elena McCoy, Biological Sciences/Chemical Sciences Building (6S), Room 112
The Medical Technology baccalaureate program prepares students for interesting and rewarding careers in the health field. Two options are offered in the program: the Medical Technologist option and the Nuclear Medicine Technologist option.

For the Medical Technologist option, the program requires three years of coursework and one year 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 skills acquired encompass a broad range of disciplines, which include hematology, clinical chemistry, microbiology, serology, immunology, histology, cytotechnology, 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 completing training in hospitals accredited by NAACLS are also eligible to take the National Board Examination leading to certification by either the American Society of Clinical Pathologists (ASCP) as Medical Technologists (MT), the National Certification Agency for Medical Laboratory Personnel (NCMLP) as Clinical Laboratory Scientists (CLS), or the International Society for Clinical Laboratory Technology (ISCLT).

For the Nuclear Medicine Technologist option, the program offers advanced theory and training in Nuclear Medicine Technology and prepares students to work in hospitals and research centers. Radioisotopes are utilized in nuclear medicine to perform diagnostic and therapeutic procedures.
This option requires three years of coursework and one year of clinical training that must be completed in a Nuclear Medicine facility accredited by the Joint Review Committee on Educational Programs in Nuclear Medicine Technology (JRCNMT). On successful completion of the program the student is awarded the BS degree in Medical Technology and is eligible to take the credentialing examinations in Nuclear Medicine Technology offered by the American Registry of Radiologic Technologist and the Nuclear Medicine Technology Certification Board.

The number of available training positions is limited. Placement, therefore, is 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. Accordingly, each student, in consultation with the program coordinator, should apply early in the third year to as many hospitals as possible, including hospitals that are located further from the student’s home than optimally desired.

Hospital Affiliations:
The following hospitals are affiliated with the College either formally or informally to provide clinical training in the Medical Technology program to qualified students.

**Medical Technologist Option**

**NAMLS Accredited Programs:**
- Catholic Medical Center of Brooklyn and Queens, Inc.
  - Ann P. Zero, Program Director
  - Usha Ruder, MD, Medical Director/Adviser
- Methodist Hospital, Brooklyn
  - Adrienne Pacz, Program Director
  - Maryann Nobel, Education Director
  - Rabia Mie, MD, Medical Director
- St. Vincent’s Hospital Medical Center, Manhattan
  - Sr. Catherine Sherry, Program Director
  - Denise Panepinto, Educational Coordinator
  - John J. Gillooley, MD, Medical Director

**Affiliate Hospitals Approved for Training by the NYC Department of Health:**

- Coney Island Hospital, Brooklyn
- Elmhurst City Hospital, Elmhurst (Queens)
- Harlem Hospital, Manhattan
- Staten Island University Hospital, Staten Island
- Lutheran Hospital, Brooklyn
- Sea View Hospital and Home, Staten Island
- Consolidated Clinical Laboratories (IBR), Staten Island

**Nuclear Medicine Technologist Option**

St. Vincent’s Medical Center of Richmond, Staten Island

Note: The student completing third-year requirements for the degree in Medical Technology who decides to change majors either because of the inability to find an appropriate training slot, or for other reasons, can usually transfer to a program in Biology, Biochemistry, or Chemistry without significant loss of progress toward the degree.

**Medical Technology (BS)**

**General Education Requirements for the BS**

**ENG 111, ENG 151, COR 100, PED 190: 12 credits**
Whenever possible, these four courses should be completed within the first 36 credits.

**Scientific Analysis; Social Scientific Analysis; The Contemporary World; Textual, Aesthetic, and Linguistic Analysis; Pluralism and Diversity requirements: 21-27 credits**
Whenever possible, these courses should be completed within the first 60 credits.

1. **Scientific Analysis: (11 credits)**
   a. Science and Technology: (8 credits)
   b. Mathematics: (3 credits)

2. **Social Scientific Analysis: (3-4 credits)**

3. **The Contemporary World: (4 credits)**

4. **Textual, Aesthetic, and Linguistic Analysis: (3-4 credits)**
   a. Literature: 200-level
   b. Arts and Communications: 100-level
   c. Arts and Communications: 200-level

5. **Pluralism and Diversity Requirement: (0-4 credits)**

See section on general education requirements for approved course lists and complete details.

**Medical Technologist and Nuclear Medicine Options**

**Pre-Major Requirements: 20 credits**
Students planning to major in the Medical Technology or Nuclear Medicine options must complete the following pre-major requirements. These are minimal pre-major requirements. Students should consult a medical technology adviser about the desirability of choosing additional courses in preparation for the major.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<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>BIO 180</td>
<td>General Biology II</td>
<td>3</td>
</tr>
<tr>
<td>BIO 181</td>
<td>General Biology II Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIO 150*</td>
<td>Human Anatomy and Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>BIO 160*</td>
<td>Human Anatomy and Physiology II</td>
<td>4</td>
</tr>
</tbody>
</table>

*Required in the Nuclear Medicine Technologist option

**Major Requirements: 67-69 credits**
### Pre-clinical:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH 223</td>
<td>Technical Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MTH 229</td>
<td>Calculus Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>MTH 231</td>
<td>Analytical Geometry and Calculus I</td>
<td>3</td>
</tr>
<tr>
<td>MTH 230</td>
<td>Calculus I with Pre-Calculus</td>
<td>6</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>BIO 316</td>
<td>Clinical Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 116</td>
<td>Introductory Physics I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 156</td>
<td>Introductory Physics II</td>
<td>4</td>
</tr>
<tr>
<td>BIO 442</td>
<td>Immunology</td>
<td>4</td>
</tr>
<tr>
<td>MDT 325</td>
<td>Diagnostic Molecular Biology</td>
<td>4</td>
</tr>
<tr>
<td>MDT 160</td>
<td>Clinical Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>MDT 365</td>
<td>Radiochemistry and Radiochemical Analysis</td>
<td>4</td>
</tr>
</tbody>
</table>

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.

### Clinical, Three Options:

#### Option I - New York City Track:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MDT 380</td>
<td>Medical Technology Training I</td>
<td>16</td>
</tr>
<tr>
<td>MDT 480</td>
<td>Medical Technology Training II</td>
<td>16</td>
</tr>
</tbody>
</table>

#### Option II - NAACLS Track:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MDT 381</td>
<td>Clinical Chemistry Training</td>
<td>8</td>
</tr>
<tr>
<td>MDT 382</td>
<td>Hematology Coagulation Training</td>
<td>6</td>
</tr>
<tr>
<td>MDT 383</td>
<td>Clinical Microscopy Training</td>
<td>2</td>
</tr>
<tr>
<td>MDT 481</td>
<td>Clinical Microbiology Training</td>
<td>6</td>
</tr>
<tr>
<td>MDT 482</td>
<td>Immunohematology Training</td>
<td>4</td>
</tr>
<tr>
<td>MDT 483</td>
<td>Serology Immunology Training</td>
<td>4</td>
</tr>
<tr>
<td>MDT 484</td>
<td>Clinical Parasitology Training</td>
<td>2</td>
</tr>
</tbody>
</table>

#### Option III - Nuclear Medicine Track:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MDT 395</td>
<td>Nuclear Medicine Training I</td>
<td>16</td>
</tr>
<tr>
<td>MDT 495</td>
<td>Nuclear Medicine Training II</td>
<td>16</td>
</tr>
</tbody>
</table>

### Electives: 0-8 credits

### Cytotechnology and Histotechnology Options

#### Pre-Major Requirements: 24 credits

Students planning to major in the Cytotechnology or Histotechnology options must complete the following pre-major requirements. These are minimal pre-major requirements. Students should consult a medical technology adviser about the desirability of choosing additional courses in preparation for the major.

<table>
<thead>
<tr>
<th>Course Code</th>
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<tr>
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<td>General Biology I Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIO 180</td>
<td>General Biology II</td>
<td>3</td>
</tr>
<tr>
<td>BIO 181</td>
<td>General Biology II Laboratory</td>
<td>1</td>
</tr>
</tbody>
</table>

or

<table>
<thead>
<tr>
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<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH 223</td>
<td>Technical Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MTH 229</td>
<td>Calculus Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>MTH 231</td>
<td>Analytical Geometry and Calculus I</td>
<td>3</td>
</tr>
<tr>
<td>MTH 230</td>
<td>Calculus I with Pre-Calculus</td>
<td>6</td>
</tr>
<tr>
<td>CHM 250</td>
<td>Organic Chemistry I</td>
<td>4</td>
</tr>
<tr>
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<td>4</td>
</tr>
<tr>
<td>BIO 316</td>
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<tr>
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<td>Introductory Physics I</td>
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<td>PHYS 156</td>
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<td>MDT 365</td>
<td>Radiochemistry and Radiochemical Analysis</td>
<td>4</td>
</tr>
</tbody>
</table>

Note: 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.

### Major Requirements: 68-70 credits

#### Pre-clinical:

<table>
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<td>MDT 325</td>
<td>Diagnostic Molecular Biology</td>
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</tbody>
</table>

### Clinical, Two Options:

#### Option I – Cytotechnology Training

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MDT 319</td>
<td>Cytotechnology Training I</td>
<td>16</td>
</tr>
<tr>
<td>MDT 419</td>
<td>Cytotechnology Training II</td>
<td>16</td>
</tr>
</tbody>
</table>

#### Option II – Histotechnology Track:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MDT 321</td>
<td>Histotechnology Training I</td>
<td>16</td>
</tr>
<tr>
<td>MDT 421</td>
<td>Histotechnology Training II</td>
<td>16</td>
</tr>
</tbody>
</table>

### Electives: 0-7 credits

### Total Credits Required: 120

### Liberal Arts and Sciences Requirement

All courses designated MDT and the course BIO 316 are non-liberal arts and sciences.

### Medical Technology (BS) Transfer Program

This program is designed for students who have completed two-year programs in medical laboratory technology. It allows those students to complete the requirements for the BS in Medical Technology in two years of additional study.

**Admission Requirements:**

Students must have received the AAS degree in Medical Laboratory Technology or successfully completed all coursework required for such a degree except the internship.
General Education Requirements
The same as for the BS in Medical Technology, listed above.

Pre-Major Requirements
Same as BS in Medical Technology. Students who have completed the AAS degree in Medical Laboratory Technology at one of the community colleges of CUNY have met the pre-major requirements and are admitted without deficiencies.

Major Requirements
Same as BS in Medical Technology except for students who have completed the 1,000 hours of training as part of their AAS degree. These students may be exempted from the first six months of the one year of training required for the BS degree in consultation with the program coordinator.

Total Credits Required: 120

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.

Courses
The following courses are part of the Medical Laboratory Technology AAS degree program. (MDT 100 and MDT 160 and MDT 365 are also part of the BS degree program.)

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. Prerequisite: BIO 090 or a satisfactory score on the Biology Placement Test Pre- or corequisites: BIO 170 and 171. Students must receive a grade of C or better in MDT 100 to proceed to MDT 160

MDT 160  Clinical Science
3 class hours, 3 laboratory hours; 4 credits
Introduction to clinical chemistry and fundamentals of body fluid and urine analysis. Emphasis on theory and practice of both manual and automated techniques used in clinical chemistry laboratories. Students will learn to operate the autoanalyzer, flame photometer, microgasometer, spectrophotometer, microzone electrophoresis, densitometer, and other instruments. Normal metabolism, abnormal metabolism, and the clinical significance of laboratory tests are discussed. Prerequisites: MDT 100 or CHM 141. Students must receive a grade of C or better in MDT 160 to proceed to MDT 265

MDT 265, 275, 285, 295 Hospital Laboratory Practice
1,000 hours; 12 credits
Students will perform laboratory tests, work with patients and hospital personnel at affiliate hospital laboratories. They obtain training and practice as they rotate through all of the clinical laboratories. Training is on a full-time, five days per week basis for 25 weeks or until 1,000 hours have been completed.

All four MDT courses must be completed satisfactorily for credit to be awarded. Prerequisites: MDT 510 with a grade of C or better plus completion of all college course requirements for the MLT (AAS) degree

MDT 265
220 hours; 3 credits
Hematology, hemostasis, and coagulation

MDT 275
220 hours; 3 credits
Blood banking including immunology

MDT 285
240 hours; 3 credits
Microbiology including parasitology, mycology, virology

MDT 295
320 hours; 3 credits
Clinical chemistry including special test, urine and body fluid analysis

Students who wish to transfer their credits to the Medical Technology BS degree program must have successfully completed the 1,000 hours required in these Hospital Laboratory Practice courses and have been awarded the Medical Laboratory Technology AAS degree.

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. 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 histocytology correlations, as well as laboratory techniques in specimen collection, processing procedures, and microscopic interpretations used for the detection of cancerous or pre-cancerous cells. Prerequisites: BIO 180 and 181, and BIO 318 and/or equivalent laboratory experience.

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
The following courses are part of the Medical Technology BS degree program.

Medical technology students train for 12 months during their senior year in an affiliated hospital that is:

a) approved for training by the New York State Department of Health
b) accredited for training by NAACLS
c) accredited by JRCNMT

MDT 380 and MDT 480 are taken by students in NYS Department of Health-approved hospitals;
MDT 381, 382, 383 and MDT 481, 482, 483 are taken by students in NAACLS-accredited programs;
MDT 395 and MDT 495 are taken by students in JRCNMT-accredited programs.

MDT 365  Radiochemistry and Radiochemical Analysis
4 hours; 4 credits
Nuclear physics and nuclear and 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 319  Cytotechnology Training I
16 credits
Prerequisite: Permission of the Medical Technology coordinator

MDT 321  Histotechnology Training I
16 credits
Prerequisite: Permission of the Medical Technology coordinator

MDT 380  Medical Technology Training I
16 credits
Prerequisite: Permission of the Medical Technology coordinator

MDT 381  Clinical Chemistry Training
8 credits
Prerequisite: Permission of the Medical Technology coordinator

MDT 382  Hematology-Coagulation Training
6 credits
Prerequisite: Permission of the Medical Technology coordinator

MDT 383  Clinical Microscopy Training
2 credits
Prerequisite: Permission of the Medical Technology coordinator

MDT 395  Nuclear Medicine Training I
16 credits
Prerequisite: Permission of the Medical Technology coordinator

MDT 419  Cytotechnology Training II
16 credits
Prerequisite: Permission of the Medical Technology coordinator

MDT 421  Histotechnology Training II
16 credits
Prerequisite: Permission of the Medical Technology coordinator

MDT 480  Medical Technology Training II
16 credits
A continuation of MDT 380.
Prerequisites: MDT 380 and permission of the Medical Technology coordinator

MDT 481  Clinical Microbiology Training
6 credits
A continuation of MDT 381.
Prerequisite: MDT 381 and permission of the Medical Technology coordinator

MDT 482  Immuno-Hematology Training
4 credits
A continuation of MDT 382.
Prerequisites: MDT 382 and permission of the Medical Technology coordinator

MDT 483  Serology-Immunology Training
4 credits
A continuation of MDT 383.
Prerequisites: MDT 383 and permission of the Medical Technology coordinator

MDT 484  Clinical Parasitology Training
2 credits
Prerequisite: Permission of the Medical Technology coordinator

MDT 495  Nuclear Medicine Training II
16 credits
A continuation of MDT 395.
Prerequisites: MDT 395 and permission of the Medical Technology coordinator

MODERN CHINA STUDIES
(Certificate)
Contact: Dean Francisco Soto
South Administration Building (1A) Room 312
1.718.982.2315
China plays a major role on the world stage in the 21st century. The certificate in Modern China Studies affords students from different majors an opportunity to study modern China in an interdisciplinary fashion. Upon successful completion, students will have acquired a breadth of knowledge that will prepare them to confront the complex reality of contemporary China and provide them certain advantages in seeking employment after graduation.

The certificate is interdisciplinary and will draw upon courses in Chinese language, history, literature, and political science. All undergraduates are eligible to participate in the certificate.

Four courses (16 credits) are required for the certificate, including one core course (HST 213) and one course in Chinese language. Students may use two courses (one language) from the CUNY programs in China to fulfill the requirements.
Modern China Studies Curriculum:

Required:
HST 213 Chinese Civilization 4 credits
Chinese language course selected from the following: 4 credits
CHN 113
CHN 114
CHN 213 and CHN 101
CHN 214 and CHN 102
Choice of two from the following courses: 8 credits
CIN 203 Chinese Cinema
ENL 335 Modern Asian Literature
HST 206 Modern China
HST 327 The World of Late Imperial China
POL 256 East Asian Politics
POL 353 China: Politics and Foreign Relations.

Total credits: 16 credits

Courses offered in China on the CUNY-wide programs sponsored by the College of Staten Island (The overseas courses are listed in with the CSI course equivalent is shown below):

1) The following courses are offered on the semester program at Nanjing University:
   - Beginning Chinese;
   - 112 Basic Chinese I, and CHN 113 Basic Chinese I; 8 total credits.
   - Intermediate Chinese I;
   - CHN 214 Contemporary Expression, and CHN 299 Chinese 200-level; 10 total credits.
   - Intermediate Chinese II;
   - CHN 312 Continuing Chinese, and CHN 399 Chinese 300-level; 10 total credits.
   - Chinese Culture and Society;
   - Asian Civilization, HIST 204; 3 credits.
   - Survey of China's History;
   - Chinese History, HIST 205; 3 credits.
   - Survey of Chinese Literature;
   - Classics of Asian Literature, ENH 207, 3 credits.
   - Geography of China;
   - Geography, GEG 299; 3 credits.
   - China's Political System;
   - China: Politics and Foreign Relations, POL 353, 4 credits.

2) The following courses are offered on the four-week January winter intersession and summer session program at Shanghai University:
   - Business in Contemporary China;
   - BUS 513 Special Topics, 3 credits
   - Intensive Beginning Survival Chinese;
     CHN 113 Basic Chinese I, 3 credits

   - Intensive Intermediate Chinese;
     CHN 114 Basic Chinese II, 3 credits

MUSIC

(Bachelor of Arts, Bachelor of Science, Electrical Technology Concentration, Minor)
Department of Performing and Creative Arts
Coordinator: Assistant Professor David Keberle, Center for the Arts (1P), Room 206

Music (BA and BS)

General Education Requirements for the BA and BS
ENG 111, ENG 151, COR 100, PED 190: 12 credits
Whenever possible, these four courses should be completed within the first 36 credits.

Scientific Analysis; Social Scientific Analysis; The Contemporary World; Textual, Aesthetic, and Linguistic Analysis; Pluralism and Diversity requirements: 28-47 credits
Whenever possible, these courses should be completed within the first 60 credits.

1. Scientific Analysis: (11 credits)
   a. Science and Technology: (8 credits)
   b. Mathematics: (3 credits)
2. Social Scientific Analysis: (7-8 credits)
3. The Contemporary World: (4 credits)
4. Textual, Aesthetic, and Linguistic Analysis: (6-8 credits)
   a. Literature: 200-level
   b. Arts and Communications: 100-level
      Arts and Communications: 200-level
5. Pluralism and Diversity Requirement: (0-4 credits)
6. Foreign Language: (0-12 credits)
See section on general education requirements for approved course lists and complete details.

Music (BA)

Pre-Major requirements: 3-5 credits

MUS 120 Rudiments of Music 3 credits
or
MUS 125 Introduction to Music Theory 3 credits
Students who intend to major in Music should complete MUS 125 in the spring semester of their first year at CSI. MUS 120, offered in both fall and spring semesters, is an acceptable (although less desirable) alternative.

MUS 123 Piano I 1 credit
MUS 124 Piano II 1 credit
All music majors must demonstrate elementary proficiency at the piano.
Passing the piano proficiency examination is a requirement for graduation and must be accomplished before a graduation form will be signed.
Students entering CSI with limited keyboard background may take MUS 123-124 (Piano I and II) as pre-major credit or private lessons in piano at their own expense.
Major Requirements (44-45 credits)

Students must earn a grade of B in MUS 120 or MUS 125 and make progress toward satisfying the piano proficiency requirement before registering for the Music major sequence, which typically begins in the second year. The standard sequence of courses is MUS 223/MUS 225/MUS 243, taken in the fall semester, and MUS 224/MUS 226/MUS 244, taken in the spring semester. Music majors should request an advisor from the full-time music faculty.

Core courses (35 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MUS 211</td>
<td>History of Western Music I</td>
<td>4</td>
</tr>
<tr>
<td>MUS 212</td>
<td>History of Western Music II</td>
<td>4</td>
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<tr>
<td>MUS 223</td>
<td>Keyboard Musicianship I</td>
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<tr>
<td>MUS 224</td>
<td>Keyboard Musicianship II</td>
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<tr>
<td>MUS 225</td>
<td>Music Theory I</td>
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<tr>
<td>MUS 226</td>
<td>Music Theory II</td>
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<tr>
<td>MUS 239</td>
<td>History of Jazz</td>
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<td>MUS 243</td>
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<td>MUS 244</td>
<td>Musicianship II</td>
<td>1</td>
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<tr>
<td>MUS 252</td>
<td>Counterpoint</td>
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<tr>
<td>MUS 255</td>
<td>Keyboard Musicianship IV</td>
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<td>MUS 256</td>
<td>Instrumentation and Scoring</td>
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<td>MUS 363</td>
<td>Musicianship III</td>
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<td>MUS 364</td>
<td>Musicianship IV</td>
<td>1</td>
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<td>MUS 424</td>
<td>Score Analysis</td>
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<tr>
<td>MUS 431</td>
<td>Conducting</td>
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Advanced Music History Requirement (3 credits)

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<tbody>
<tr>
<td>MUS 338</td>
<td>Innovators in Jazz</td>
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<tr>
<td>MUS 360</td>
<td>Twentieth-Century Directions</td>
<td>3</td>
</tr>
<tr>
<td>MUS 400</td>
<td>The Music of J.S. Bach</td>
<td>3</td>
</tr>
<tr>
<td>MUS 402</td>
<td>Major Composer I</td>
<td>3</td>
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<tr>
<td>MUS 403</td>
<td>Major Composer II</td>
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<tr>
<td>MUS 450</td>
<td>History and Literature of the Symphony</td>
<td>3</td>
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<tr>
<td>MUS 460</td>
<td>History and Literature of Chamber Music</td>
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<tr>
<td>MUS 470</td>
<td>History and Literature of Opera</td>
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Advanced Music Theory Requirement (2-3 credits)

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<tr>
<td>MUS 242</td>
<td>Harmonic Practice in the Jazz Tradition</td>
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<tr>
<td>MUS 258</td>
<td>Introduction to Music Technology</td>
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<tr>
<td>MUS 270</td>
<td>Composition I</td>
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<tr>
<td>MUS 301</td>
<td>Improvisation</td>
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<tr>
<td>MUS 370</td>
<td>Composition II</td>
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Ensemble Requirement (4 credits)

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<tr>
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</tr>
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<tbody>
<tr>
<td>MUS 115</td>
<td>Chamber Ensemble I</td>
<td>1</td>
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<tr>
<td>MUS 116</td>
<td>Chamber Ensemble II</td>
<td>1</td>
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<tr>
<td>MUS 130</td>
<td>Guitar Ensemble I</td>
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<td>MUS 131</td>
<td>Guitar Ensemble II</td>
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<tr>
<td>MUS 144</td>
<td>Jazz Ensemble I</td>
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<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>Chamber Ensemble III</td>
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</tr>
<tr>
<td>MUS 216</td>
<td>Chamber Ensemble IV</td>
<td>1</td>
</tr>
</tbody>
</table>

Electives: 11-36 credits

Total Credits Required: 120

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. 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 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, arpeggios, two prepared pieces, as well as read a short musical composition at sight. In the BA, private lessons are elective. Students enrolled in private lessons must maintain a 2.75 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 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 prerequisite 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:

- practice for at least two hours each and every day;
- receive a grade of B in the juried examination that takes place at the end of each semester;
- maintain full-time enrollment status at CSI (12 credits or more for each semester of lessons);
- make satisfactory progress toward completing the Music degree.

Junior and Senior Project Courses

Courses numbered MUS 383, MUS 393, 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. 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 designation, these courses may be designated as Junior Honors Project or Senior Honors Project.
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)

Pre-Major Requirements: 3-5 credits
MUS 120 Rudiments of Music 3 credits
or
MUS 125 Introduction to Music Theory 3 credits
Students who intend to major in Music should complete MUS 125 in the spring semester of their first year at CSI. MUS 120, offered in both fall and spring semesters, is an acceptable (although less desirable) alternative.
MUS 123 Piano I 1 credit
MUS 124 Piano II 1 credit
All music majors must demonstrate elementary proficiency at the piano. Passing the piano proficiency examination is a requirement for graduation and must be accomplished before a graduation form will be signed. Students entering CSI with limited keyboard background may take MUS 123-124 (Piano I and II) as pre-major credit or private lessons in piano at their own expense.

Major Requirements (62-65 credits)
Students must earn a grade of B in MUS 120 or 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 223/MUS 225/MUS 243, taken in the fall semester, and MUS 224/MUS 226/MUS 244, taken in the spring semester. Music majors should request an advisor from the full-time music faculty.

Core courses (50 credits)
MUS 180 Performance Workshop I 1 credit
MUS 181 First-Semester Private Lessons 1 credit
MUS 190 Performance Workshop II 1 credit
MUS 191 Second-Semester Private Lessons 1 credit
MUS 211 History of Western Music I 4 credits
MUS 212 History of Western Music II 4 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 239 History of Jazz 3 credits
MUS 242 Harmonic Practice in the Jazz Tradition 3 credits
MUS 243 Musicianship I 1 credit
MUS 244 Musicianship II 1 credit
MUS 280 Performance Workshop III 1 credit
MUS 281 Third-Semester Private Lessons 1 credit
MUS 290 Performance Workshop IV 1 credit
MUS 291 Fourth-Semester Private Lessons 1 credit
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
Advanced Music History Requirement (6 credits)
Two courses from the following list:
MUS 338 Innovators in Jazz 3 credits
MUS 360 Twentieth-Century Directions 3 credits
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
Advanced Studies in Music Theory, Music History, Composition, or Performance (6-9 credits)
Three courses, chosen in consultation with a Music advisor, from the above list or from the following list:
MUS 258 Introduction to Music Technology 2 credits
MUS 270 Composition I 2 credits
MUS 301 Improvisation 3 credits
MUS 370 Composition II 2 credits
MUS 383 Junior Project (Performance) 3 credits
MUS 393 Junior Project (Composition or Research) 3 credits
MUS 483 Senior Project (Performance) 3 credits
MUS 493 Senior Project (Composition or Research) 3 credits
Ensemble Requirement (4 credits)
Four courses from the following list:
MUS 115 Chamber Ensemble I 1 credit
MUS 116 Chamber 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 Chamber Ensemble III 1 credit
MUS 216 Chamber 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 250 Chorus III 1 credit
MUS 251 Chorus IV 1 credit
MUS 264 Orchestra III 1 credit
MUS 265 Orchestra IV 1 credit
Electives: 0-18 credits
Total credits required: 120
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; however, 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 BS in Music.

Private Instruction in Voice and Instrument
The College funds private lessons 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 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, arpeggios, two prepared pieces, as well as a short musical composition at sight.

Students enrolled in private lessons must maintain a 2.75 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 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. Private lessons taken after the fourth semester may count as electives. Performance Workshop (MUS 180, MUS 190, MUS 280, MUS 290, MUS 380, MUS 390, MUS 480, MUS 490) is corequisite 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:

a) practice for at least two hours each and every day;
b) receive a grade of B in the juried examination that takes place at the end of each semester;
c) maintain full-time enrollment status at CSI (12 credits or more for each semester of lessons);
d) make satisfactory progress toward completing the Music degree.

Junior and Senior Project Courses
Courses numbered MUS 383, MUS 393, 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. 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 Junior Honors Project or Senior Honors Project.

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 (BS)
Electrical Technology Concentration
General education, pre-major, and major requirements are the same as for the Music BS.

Electrical Technology Concentration: 16 credits

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<tr>
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<tr>
<td>ELT 121</td>
<td>DC Fundamentals Laboratory</td>
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<tr>
<td>ELT 124</td>
<td>Principles of Electricity</td>
<td>3</td>
</tr>
<tr>
<td>ELT 240</td>
<td>Principles of Digital Electronics</td>
<td>3</td>
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<tr>
<td>ELT 241</td>
<td>Digital Circuit Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>ELT 331</td>
<td>Electronic Laboratory I</td>
<td>1</td>
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<tr>
<td>ELT 332</td>
<td>Electronic Circuit Theory and Applications</td>
<td>4</td>
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<tr>
<td>ELT 444</td>
<td>Sound Production</td>
<td>3</td>
</tr>
</tbody>
</table>

(Prerequisite: MTH 123)

(Course taught elsewhere for CSI credit.)

Electives: 42-61 credits

Total Credits Required: 120

Liberal Arts and Sciences Requirement
Music performance courses and electrical technology (ELT) courses are non-liberal arts and sciences.

Minor Requirements
At least 18 credits of music to be determined in consultation with a Music faculty adviser. At least 11 credits must be courses required for the Music major.

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.)

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.)

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.)

MUS 115 Ensemble I
2 hours; 1 credit
Ensembles from duos to larger groups, such as voice and piano, single instrument and piano, trio, brass ensemble, new music ensemble, and/or other ensemble, that will rehearse and receive coaching on a weekly basis. Groups will be formed based on repertoire available and performance ability, with the goal of public performance. Prerequisites or corequisites: MUS 120, and audition and permission of the instructor or program coordinator.
MUS 116  Ensemble II
2 hours; 1 credit
Ensembles from duos to larger groups, such as voice and piano, single instrument and piano, trio, brass ensemble, new music ensemble, and/or other ensemble, that will rehearse and receive coaching on a weekly basis. Groups will be formed based on repertoire available and performance ability, with the goal of public performance.
Prerequisite: MUS 115

MUS 120  Rudiments of Music
4 hours; 3 credits
Introduction to music reading and notation; performing of rhythmic exercises; structure of scales, intervals, and triads; musical terms; introduction to the keyboard. (arts & com.)

MUS 123  Piano I
2 hours; 1 credit
Basic piano technique; playing simple pieces.
Prerequisite: the ability to read music

MUS 124  Piano II
2 hours; 1 credit
Continuation of MUS 123
Prerequisite: MUS 123

MUS 125  Introduction to Music Theory
4 hours; 3 credits
For students who know how to read music and who expect to major in Music. Review of rudiments of music (meters, major and minor scales, key signatures, intervals); introduction to chord construction and diatonic harmony; introduction to two-part writing; introduction to sight-singing, ear-training, and keyboard harmony. (arts & com.)

MUS 130  Guitar Ensemble I
2 hours; 1 credit
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

MUS 131  Guitar Ensemble II
2 hours; 1 credit
Continuation of MUS 130
Prerequisite: MUS 130

MUS 144  Jazz Ensemble I
2 hours; 1 credit
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

MUS 145  Jazz Ensemble II
2 hours; 1 credit
Continuation of MUS 144
Prerequisite: MUS 144

MUS 150  Chorus I
2 hours; 1 credit
A mixed chorus of soprano, alto, tenor, and bass (SATB) that sing both classical and popular works. The group contributes to the musical and social life of the College by presenting a concert near the end of the semester.
Prerequisite: Audition and permission of instructor or full-time music faculty member

MUS 151  Chorus II
2 hours; 1 credit
Continuation of MUS 150
Prerequisite: MUS 150

MUS 164  Orchestra I
2 hours, 1 credit
Rehearsal and performance of orchestral literature from all periods. May be taken without credit.
Prerequisite: MUS 120 and permission of instructor or full-time faculty member

MUS 165  Orchestra II
2 hours, 1 credit
Continuation of MUS 164. Rehearsal and performance of orchestral literature from all periods.
Prerequisite: MUS 164 and permission of instructor

MUS 180  Performance Workshop I
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.
Prerequisite or corequisite: MUS 120
Corequisite: MUS 181

MUS 181  First-Semester Private Lessons
1 hour; 1 credit
Prerequisite: Permission of a full-time music faculty member
Corequisite: MUS 120 and MUS 180

MUS 189  Performance Workshop II
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 180 and MUS 181
Corequisite: MUS 191

MUS 190  Performance Workshop II
1 hour; 1 credit
Prerequisite: Permission of a full-time music faculty member and MUS 181
Corequisite: MUS 190

MUS 191  Second-Semester Private Lessons
1 hour; 1 credit
Prerequisites: Permission of a full-time music faculty member and MUS 181
Corequisite: MUS 190
MUS 211 History of Western Music I
4 hours, 4 credits
A survey of the history of musical style and materials from the monophonic compositions of the Middle Ages 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. (arts & com.)
Prerequisite: ENG 111; MUS 120 or MUS 125 or the ability to read music.

MUS 212 History of Western Music II
4 hours, 4 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. (arts & com.)
Prerequisite: ENG 111; MUS 120 or MUS 125 or the ability to read music.

MUS 215 Ensemble III
2 hours; 1 credit
Ensembles from duos to larger groups, such as voice and piano, single instrument and piano, trio, brass ensemble, new music ensemble, and/or other ensemble, that will rehearse and receive coaching on a weekly basis. Groups will be formed based on repertoire available and performance ability, with the goal of public performance.
Prerequisite: MUS 116.

MUS 216 Ensemble IV
2 hours; 1 credit
Ensembles from duos to larger groups, such as voice and piano, single instrument and piano, trio, brass ensemble, new music ensemble, and/or other ensemble, that will rehearse and receive coaching on a weekly basis. Groups will be formed based on repertoire available and performance ability, with the goal of public performance.
Prerequisite: MUS 215.

MUS 223 Keyboard Musicianship I
1 hour; 1 credit
For Music majors. Chord progressions; constructing a piano accompaniment from lead sheet notation and from Roman numerals. Simple song harmonizations and transpositions.
Prerequisite: MUS 120 or MUS 125 or permission of the instructor, and MUS 123 or MUS 124 or successful completion of the piano proficiency examination.
Corequisite: MUS 225 and MUS 243.

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.
Prerequisite: MUS 223.
Corequisite: 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.
Prerequisite: MUS 120 or MUS 125 or permission of the instructor.
Corequisite: MUS 243 and MUS 223.

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.
Prerequisite: MUS 225, MUS 243, and MUS 223.
Corequisite: MUS 244 and MUS 224.

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.
Prerequisite: MUS 225, MUS 243, and MUS 223.
Corequisite: MUS 244 and MUS 224.

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.)
Prerequisite: ENG 111.

MUS 237 American Musical Theater
(Also AMS 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.)
Prerequisites: ENG 111; for music majors, MUS 120 or permission of instructor.
MUS 239  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 (arts & com) (p&d)
Prerequisite: ENG 111; MUS 120 or MUS 125 or the ability to read music

MUS 242  Harmonic Practice in the Jazz Tradition  
3 hours; 3 credits
Chord types, extensions, alterations, voicings, progressions, and substitutions found in the jazz idiom. Analysis and written exercises.
Prerequisite: MUS 225 and MUS 243 and MUS 223

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: MUS 120 or MUS 125 or permission of the instructor; MUS 123 or MUS 124 or successful completion of the piano proficiency examination
Corequisite: MUS 225

MUS 244  Musicianship II  
2 hours, 1 credit
Continuation of MUS 243
Prerequisite: MUS 225 and MUS 243
Corequisite: 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 250  Chorus III  
2 hours, 1 credit
Continuation of MUS 151
Prerequisite: MUS 151

MUS 251  Chorus IV  
2 hours, 1 credit
Continuation of MUS 250. May be repeated for credit.
Prerequisite: MUS 250

MUS 252  Musical Performance I  
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.
Prerequisite: For MUS 252, permission of the instructor; for MUS 253, MUS 252 or permission of the instructor

MUS 258  Introduction to Music Technology  
3 hours; 2 credits
A survey of hardware and software resources in the electronic music lab. Introduction to Desktop Music Notation, basic Audio and MIDI studio techniques; history of the electronic music medium. A materials charge will cover the cost of tapes and CDs.
Prerequisite: MUS 225 and MUS 243 and MUS 223

MUS 264  Orchestra III  
2 hours; 1 credit
Continuation of MUS 165. Rehearsal and performance of orchestral literature from all periods.
Prerequisite: 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.
Prerequisite: 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: MUS 225 and MUS 243 and MUS 223

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
Corequisite: MUS 281

MUS 281  Third-Semester Private Lessons  
1 hour; 1 credit
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
Corequisite: MUS 291

MUS 291  Fourth-Semester Private Lessons  
1 hour; 1 credit
Prerequisites: Permission of a full-time music faculty member and MUS 281
Corequisite: MUS 290
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
<th>Description</th>
<th>Prerequisite(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 301</td>
<td>Improvisation</td>
<td>2 hours</td>
<td>An introduction to 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.</td>
<td>MUS 225 and MUS 243 and MUS 223</td>
</tr>
<tr>
<td>MUS 322</td>
<td>Counterpoint</td>
<td>3 hours</td>
<td>Introduction to polyphonic composition and the analysis of 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.</td>
<td>MUS 226 and MUS 244 and MUS 224</td>
</tr>
<tr>
<td>MUS 323</td>
<td>Keyboard Musicianship III</td>
<td>1 hour</td>
<td>Continuation of MUS 224</td>
<td>MUS 224</td>
</tr>
<tr>
<td>MUS 325</td>
<td>Keyboard Musicianship IV</td>
<td>1 hour</td>
<td>Continuation of MUS 323</td>
<td>MUS 323</td>
</tr>
<tr>
<td>MUS 326</td>
<td>Instrumentation and Scoring</td>
<td>2 hours</td>
<td>The study of woodwinds, brass, strings, and percussion; ranges and voicing; score analysis and notation; articulation and phrasing.</td>
<td>MUS 225 and MUS 243 and MUS 223</td>
</tr>
<tr>
<td>MUS 332</td>
<td>Classical Guitar II</td>
<td>2 hours</td>
<td>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.</td>
<td>MUS 232 with a grade of C or better, or equivalent, and permission of the instructor</td>
</tr>
<tr>
<td>MUS 338</td>
<td>Innovators in Jazz</td>
<td>3 hours</td>
<td>Analysis of style and form of major figures in jazz history.</td>
<td>ENG 151, MUS 223, MUS 225, MUS 243</td>
</tr>
<tr>
<td>MUS 340</td>
<td>Arranging for Jazz Ensemble</td>
<td>2 hours</td>
<td>A practical study of voicing techniques in the jazz idiom. Students will be expected to orchestrate for ensembles ranging from combo to big band, and to master the writing of &quot;charts&quot; for the rhythm section.</td>
<td>MUS 242</td>
</tr>
<tr>
<td>MUS 352</td>
<td>Musical Performance III</td>
<td>3 hours</td>
<td>See description for MUS 252.</td>
<td>MUS 253 or permission of the instructor</td>
</tr>
<tr>
<td>MUS 353</td>
<td>Musical Performance IV</td>
<td>3 hours</td>
<td>See description for MUS 252. May be repeated for credit.</td>
<td>MUS 352 or permission of the instructor</td>
</tr>
<tr>
<td>MUS 360</td>
<td>Twentieth-Century Directions</td>
<td>3 hours</td>
<td>A survey of the literature and techniques of 20th- and 21st century composition. Analysis and written assignments.</td>
<td>ENG 151, MUS 225, MUS 243, MUS 223</td>
</tr>
<tr>
<td>MUS 363</td>
<td>Musicianship III</td>
<td>2 hours</td>
<td>Continuation of MUS 244</td>
<td>MUS 226, MUS 244, and MUS 224</td>
</tr>
<tr>
<td>MUS 364</td>
<td>Musicianship IV</td>
<td>2 hours</td>
<td>Continuation of MUS 363</td>
<td>MUS 226, MUS 363, and MUS 323</td>
</tr>
<tr>
<td>MUS 370</td>
<td>Composition II</td>
<td>2 hours</td>
<td>Continuation of MUS 270. 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.</td>
<td>MUS 270</td>
</tr>
<tr>
<td>MUS 380</td>
<td>Performance Workshop V</td>
<td>1 hour</td>
<td>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.</td>
<td>MUS 290 and 291</td>
</tr>
<tr>
<td>MUS 381</td>
<td>Fifth-Semester Private Lessons</td>
<td>1 hour</td>
<td>Prerequisites: Permission of a full-time music faculty member and MUS 291.</td>
<td>MUS 380</td>
</tr>
<tr>
<td>MUS 383</td>
<td>Junior Project (Performance)</td>
<td>1 hour</td>
<td>Prerequisites: Junior standing and permission of a full-time music faculty member.</td>
<td>MUS 380 or MUS 290</td>
</tr>
<tr>
<td>MUS 390</td>
<td>Performance Workshop VI</td>
<td>1 hour</td>
<td>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.</td>
<td>MUS 381 or MUS 383 and MUS 380</td>
</tr>
<tr>
<td>MUS 391</td>
<td>Sixth-Semester Private Lessons</td>
<td>1 hour</td>
<td>Prerequisites: Permission of a full-time music faculty member and MUS 381.</td>
<td>MUS 390</td>
</tr>
</tbody>
</table>
MUS 393  Junior Project (Composition or Research)
1 hour; 3 credits
Prerequisites: Junior standing and permission of a full-time music faculty member

MUS 400  The Music of J.S. Bach
3 hours; 3 credits
An examination of the music of J. S. Bach in a variety of genres: keyboard, chamber music, orchestral, and cantata. Issues of musical style and structure will be emphasized. Secondary considerations include issues of theology, symbolism, and historical theory. Extensive listening assignments.
Prerequisites: ENG 151; MUS 211 or MUS 212; MUS 225; MUS 243; MUS 223

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: ENG 151; MUS 211 or MUS 212; MUS 225; MUS 243; MUS 223

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: ENG 151; MUS 211 or MUS 212; MUS 225; MUS 243; MUS 223

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: 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: MUS 322

MUS 424  Score Analysis
3 hours; 3 credits
Study of works that demonstrate the variety of musical forms found in Western music.
Prerequisite: MUS 225 or MUS 241 or MUS 242

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: MUS 326 or permission of instructor

MUS 431  Conducting
2 hours; 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: MUS 225 and MUS 243 and MUS 223

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 songwriting.
Prerequisites: MUS 225 and MUS 243 and MUS 223

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: ENG 151; MUS 211 or MUS 212; MUS 225; MUS 243; MUS 223

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: ENG 151; MUS 211 or MUS 212; MUS 225; MUS 243; MUS 223

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: ENG 151; MUS 211 or MUS 212; MUS 225; MUS 243; MUS 223

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.
Prerequisites: MUS 383 or MUS 391 and MUS 390
Corequisite: MUS 481 or MUS 483

MUS 481  Seventh-Semester Private Lessons
1 hour; 1 credit
Prerequisites: Permission of a full-time music faculty member and MUS 391
Corequisite: MUS 480

MUS 483  Senior Project (Performance)
1 hour; 3 credits
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.
Prerequisites: MUS 481 or MUS 483 and MUS 480
Corequisite: MUS 483 or 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 495  Senior Project (Composition or Research)
1 hour; 3 credits
Prerequisites: Senior standing and permission of a full-time music faculty member

NURSING

(Associate in Applied Science, Bachelor of Science, Master of Science in Nursing (AAS) - see Graduate Catalog for information on graduate program)
Department of Nursing
Chair: Associate Professor Mary O’Donnell, Marcus Hall (5S), Room 213

Nursing (AAS)

General Education Requirements:
ENG 111*, ENG 151, PED 190: 8 credits
Whenever possible, these three courses should be completed within the first 36 credits.

Scientific Analysis; Social Scientific Analysis: 16 credits
1.  Scientific Analysis
   a.  Science and Technology
      BIO 150 Human Anatomy and Physiology I*: 4 credits
      BIO 160 Human Anatomy and Physiology II**: 4 credits
   b.  Mathematics
      MTH 108 Medical Dosage Calculations: 2 credits
2.  Social Scientific Analysis
   PHL 130 Ethics*: 3 credits
   PSY 100 Introduction to Psychology*: 3 credits
*Satisfies Prerequisite Courses Requirement
** Satisfies Core Requirement

Prerequisite Courses: 13 credits
BIO 150  Human Anatomy and Physiology I
ENG 111  Communications Workshop
PHL 130  Introduction to Ethics
PSY 100  Psychology

Admission to the Nursing program is highly competitive. To qualify for admission to the Nursing program, students must have a minimum of one semester’s residency and successfully complete proficiency examinations in mathematics and English, and take the Biology Placement Examination. Successful completion of the prerequisite courses, with any necessary remediation, is a prerequisite to the clinical phase of the Nursing curriculum. When the pre-clinical courses have been completed, it is recommended that students register for other outstanding requirements such as MTH 108, Biology sequence, English, and/or PED 190. Students should consult with a Nursing advisor to assist with appropriate course selection.

Students must have a minimum cumulative average of 2.5 in the prerequisite courses with a minimum grade of C in Biology 150 to be considered for admission to the clinical phase of the Nursing program. The number of admissions is limited. Applicants are ranked by pre-clinical index from 4.0 to 2.5 until the spaces are filled.

Students who have repeated any courses in 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 a 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, Room 112, Campus Center. 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.

Core Requirements: (total credit requirement: 44)
(BIO 150, BIO 160, and MTH 108 from general education requirements listed above)
BIO 350  Bacteriology: 3 credits
BIO 351  Bacteriology Laboratory: 1 credit
NRS 110  Medical-Surgical Nursing I: 6 credits
NRS 120  Medical-Surgical Nursing II: 9 credits
NRS 210  Medical-Surgical Nursing III*: 4.5 credits
NRS 211  Psychiatric Nursing*: 4.5 credits
NRS 220  Family-Centered Maternity Nursing*: 5 credits
NRS 221  Child Health Nursing*: 5 credits

* Half-semester course
Electives: 2 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 MTH 108 and 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 for academic reasons will be permitted only once. The student has the right to appeal the grade, after consultation with the faculty member and the chairperson.
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.
8. The criteria for continuation in the nursing curriculum will be implemented by the Department Advisory Committee. Voting members include one representative from each nursing course. Non-voting members include the departmental representative to the Committee on Course and Standing, a faculty member secretary, and the chairperson of the Nursing Department. The elected chairperson of the Advisory Committee votes if there is a tie vote:
   a) The Department Advisory Committee will review each student's total college record at the end of the fall and spring semesters.
   b) Students who fail to meet the criteria for continuation will be advised to see a counselor or adviser for clarification of the difficulty.
   c) The Department Advisory Committee will refer those students who fail to meet the above criteria to the Committee on Course and Standing for appropriate action.
   d) The student may appeal the decision of the Department Advisory Committee and/or the Committee on Course and Standing.

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 the BS degree program in Nursing must be graduates of a nursing program from a degree-granting college or a diploma-granting nursing school that prepares students for licensure as Registered Professional Nurses.

Applicants should have at least a 2.0 cumulative grade point average and grades of at least 2.0 in all nursing courses taken prior to application. Deadlines for application and supporting documentation are April 1 for the fall semester and November 1 for the spring semester. Applications for admission are available in the Office of Recruitment and Admissions.

General Education Requirements for the BS
ENG 111, ENG 151, COR 100, PED 190: 12 credits
Whenever possible, these four courses should be completed within the first 36 credits.

Scientific Analysis; Social Scientific Analysis; The Contemporary World; Textual, Aesthetic, and Linguistic Analysis; Pluralism and Diversity requirements: 21-27 credits
Whenever possible, these courses should be completed within the first 60 credits.
1. Scientific Analysis: (11 credits)
   a. Science and Technology: (8 credits)
   b. Mathematics: (3 credits)
2. Social Scientific Analysis: (3-4 credits)
3. The Contemporary World: (4 credits)
4. Textual, Aesthetic, and Linguistic Analysis: (3-4 credits)
   a. Literature: 200-level
   b. Arts and Communications: 100-level
   c. Arts and Communications: 200-level
5. Pluralism and Diversity Requirement: (0-4 credits)
See section on general education requirements for approved course lists and complete details.

The science and mathematics courses listed under Major Requirements will be accepted as satisfying Scientific Analysis requirements.

Pre-major Requirements: 54 credits
Students are expected to have completed all the following courses or their equivalent prior to admission to the BSN curriculum.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 100</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PHL 130</td>
<td>Introduction to Ethics</td>
<td>3</td>
</tr>
<tr>
<td>BIO 150</td>
<td>Human Anatomy and Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>BIO 160</td>
<td>Human Anatomy and Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>BIO 350</td>
<td>Bacteriology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 351</td>
<td>Bacteriology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>MTH 108</td>
<td>Medical Dosage Calculations</td>
<td>2</td>
</tr>
<tr>
<td>NRS 110</td>
<td>Medical Surgical Nursing I</td>
<td>6</td>
</tr>
<tr>
<td>NRS 120</td>
<td>Medical Surgical Nursing II</td>
<td>9</td>
</tr>
<tr>
<td>NRS 210</td>
<td>Medical Surgical Nursing III</td>
<td>4.5</td>
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<tr>
<td>NRS 211</td>
<td>Psychiatric Nursing</td>
<td>4.5</td>
</tr>
<tr>
<td>NRS 220</td>
<td>Family-Centered Maternity Nursing</td>
<td>5</td>
</tr>
<tr>
<td>NRS 221</td>
<td>Child Health Nursing</td>
<td>5</td>
</tr>
</tbody>
</table>

The maximum number of nursing credits applied to the BS major is 25.
Major Requirements: 52 credits

- BIO 382 Pharmacotherapeutics 3 credits
- CHM 110 Principles of Chemistry I 3 credits
- CHM 111 Principles of Chemistry I Laboratory 1 credit
- CHM 116 Principles of Chemistry II 3 credits
- CHM 117 Principles of Chemistry II Laboratory 1 credit
- MTH 113 Introduction to Probability and Statistics with Computer Applications 4 credits
- PHY 114 Introduction to Physics 4 credits
- NRS 303 Seminar in Professional Development 3 credits
- NRS 310 Interpersonal Dynamics for Professional Nurses 3 credits
- NRS 320 Health Assessment and Physical Examinations 3 credits
- NRS 321 Introduction to Research in Nursing 3 credits
- NRS 410 Community Health Nursing 5 credits
- NRS 411 Leadership in the Management of Patient Care 5 credits
- NRS 421 Critical Care Nursing 5 credits
- NRS 423 Issues in Health Care and Professional Nursing 3 credits

Nursing electives: 3 credits

Electives: 0-3 credits

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 25 nursing credits are applied toward the BS in Nursing.

Graduates of diploma-granting nursing schools and college programs not accredited by the National League for Nursing Accrediting Commission must demonstrate successful completion of the Excelsior College Examinations currently designated by the Department (see a faculty adviser for information on names of specific examinations.)

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 receive 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 for Academic Reasons (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.

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. Prerequisite: Satisfactory completion of the pre-nursing sequence Corequisite: MTH 108

- **NRS 120  Medical-Surgical Nursing II**
  6 class hours, 9 laboratory hours; 9 credits
  Focus is on the identification of alterations in human basic needs resulting from common health problems and nursing intervention to restore and/or maintain optimal health. Clinical experience in a general hospital. Prerequisites: NRS 110, MTH 108 Pre- or corequisite: BIO 160

- **NRS 125  Nursing Informatics - Computers in Nursing**
  1 class hour, 2 laboratory hours; 2 credits
  Introduction to the basic concepts and skills necessary for the student to interact with a computer. Emphasis is on nursing informatics, computers related to clinical practice, nurse-patient education, basic administrative and research applications. Prerequisite: Open to students in the Nursing curriculum

- **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. Prerequisite: NRS 120 Pre- or corequisite: 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. Prerequisite: NRS 120 Pre- or corequisite: BIO 350 and BIO 351
NURSING

NRS 220  Family-Centered Maternity Nursing
6 class hours, 12 laboratory hours for one-half semester; 5 credits
Development of principles and skills in identifying and meeting the needs
of the expectant family. The family structure and changing roles are
emphasized throughout the pregnancy and birth cycle. Laboratory
experiences in clinical settings and community agencies.
Prerequisites: NRS 210 and 211

NRS 221  Child Health Nursing
6 class hours, 12 laboratory hours for one-half semester; 5 credits
Basic needs and primary 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 childcare.
Psycho-social aspects of growth and development are emphasized.
Laboratory experiences in general hospital and community agencies.
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 113, and NRS 120

NRS 303  Seminar in Professional Development
3 hours; 3 credits
This course consists of seminar-based discussions of nursing as a profession
and a science. The theory and research-based aspects of professional
practice are explored. The history of nursing provides a foundation for
growth as professionals. A model for health promotion is introduced as a
foundation for community-based nursing care. Theories of critical
thinking are applied through the use of case studies.
Prerequisite: Matriculated status in the BS degree program in Nursing

NRS 310  Interpersonal Dynamics for Professional Nurses
2 lecture hours, 2 laboratory hours; 3 credits
Theories and research related to verbal, nonverbal, written, and computer-
based communication are explored. Students increase proficiency in the
use of a broad range of communication strategies with people from
culturally diverse backgrounds.
Prerequisite: Matriculated status in the BS degree program in Nursing

NRS 319  Nursing in the Information Age
3 hours; 3 credits
This online course provides an overview of the significance of the nursing
role in integrating the data, information, and knowledge required for
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. Nursing documentation to accurately reflect
client 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 and the electronic health record will be discussed.
Pre- or corequisite: Enrolled in N3, N4. Others by permission.

NRS 320  Health Assessment and Physical Examination
2 lecture hours, 2 laboratory hours; 3 credits
The skills and techniques to perform a 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. Data from
interviews, health histories, and case studies will be critically analyzed.
Standardized nursing classification systems are used throughout the course.
Pre- or corequisites: NRS 303, NRS 310

NRS 321  Introduction to Research in Nursing
3 hours; 3 credits
Introduction to steps of the research process and to strategies for critically
appraising nursing research. Research utilization, applications for clinical
nursing practice, the use of the computer in nursing research, and future
directions of nursing research will be discussed. Students will read and
critique a selection of current, published nursing research articles.
Emphasis will be on clinical nursing research, including both qualitative
and quantitative designs.
Prerequisite: NRS 303, NRS 310
Pre- or corequisite: MTH 113

NRS 323  Health Care Needs of Vulnerable Populations
3 hours; 3 credits
This course explores the concept of vulnerability and its effect on health
care needs. Factors that predispose people to vulnerability are discussed.
Specific populations are identified and interventions to break the cycle of
vulnerability are presented.
Pre- or corequisites: NRS 303, NRS 310

NRS 410  Community Health Nursing
2.5 class hours, 5 laboratory hours; 5 credits
Nursing and public health theories and research are integrated to provide
students with knowledge and competencies for holistic nursing care of
culturally diverse individuals, families, and communities. Theories and
research related to health promotion, health protection, and disease and
illness management are applied. Skills in mutual collaboration with
consumers and interdisciplinary teams are developed.
Prerequisites: BIO 382, MTH 108, NRS 310, NRS 303, NRS 320, and
successful completion of the Criteria for Progression to NRS 400 courses
Pre- or corequisite: NRS 321

NRS 411  Leadership in Management of Patient Care
2.5 class hours, 5 laboratory hours; 5 credits
In this course, nursing, transcultural, organizational, and change theories
are examined in relation to application to the practice setting. Emphasis is
placed on professional communication skills, principles, and practices of
care management. Conceptual themes of critical thinking, decision making,
and therapeutic nursing interventions as they apply to the management of
patient care and quality improvement initiatives are integrated throughout
the course. Issues and research findings are analyzed and the impact of
various models of health care on the nursing profession is examined.
Prerequisites: NRS 320, NRS 321, and successful completion of the Criteria
for Progression to NRS 400 courses
NRS 421  Nursing in Critical Illness
2.5 class hours, 5 laboratory hours; 5 credits
This course focuses on the roles of professional nurses in the specialty of critical care nursing. It provides students with opportunities to develop clinical judgment, use advanced technology, participate in ethical decision making, and integrate research findings into practice.
Prerequisites: NRS 303, NRS 310, NRS 320, CHM 110, CHM 111, CHM 116, CHM 117; and successful completion of the Criteria for Progression to NRS 400 courses.
Pre- or corequisites: NRS 321, PHY 114

NRS 423  Issues in Health Care and Professional Nursing
3 hours; 3 credits
Current issues in health care and nursing are discussed and analyzed. Pro and con positions are addressed through discussions and presentations. Political strategies to negotiate and effect change are outlined and demonstrated. This course should be taken in the student's last semester of the BS degree program in Nursing.
Pre- or corequisites: NRS 410, NRS 411, NRS 421

PHILOSOPHY
(Bachelor of Arts, Dual Major with Political Science, Minor)
Department of Political Science, Economics, Philosophy
Coordinator: Professor Peter Simpson, History/Political Science, Economics, and Philosophy Building (2N), Room 232

Philosophy (BA)
General Education Requirements for the BA
ENG 111, ENG 151, COR 100, PED 190: 12 credits
Whenever possible, these four courses should be completed within the first 36 credits.

Scientific Analysis; Social Scientific Analysis; The Contemporary World; Textual, Aesthetic, and Linguistic Analysis; Pluralism and Diversity requirements: 28-47 credits
Whenever possible, these courses should be completed within the first 60 credits.
1. Scientific Analysis: (11 credits)
   a. Science and Technology: (8 credits)
   b. Mathematics: (3 credits)
2. Social Scientific Analysis: (7-8 credits)
3. The Contemporary World: (4 credits)
4. Textual, Aesthetic, and Linguistic Analysis: (6-8 credits)
   a. Literature: 200-level
   b. Arts and Communications: 100-level

Arts and Communications: 200-level
5. Pluralism and Diversity Requirement: (0-4 credits)
6. Foreign Language: (0-12 credits)
See section on general education requirements for approved course lists and complete details.

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, 401, or 490).

In addition, students must complete at least 12 credits of work in related subjects chosen in consultation with an adviser. 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: 33-52 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 490 Senior Seminar in Political Science, Economics, and Philosophy.

Minor
Pre requisite course:
Any 100-level philosophy course 3 credits

Minor Requirements
At least 12 credits in philosophy at or above the 200 level.

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, total of 120 credits required.

Required Courses in the Dual Major:

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 210-219, 310-319) and one in philosophical method (PHL 220-229, 320-329, 420). 16 credits

POL 100  American Government and Politics or
POL 235  The American Political System 3-4 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). 16 credits

POL/ECO/PHL 490 Senior Seminar in Political Science, Economics, and Philosophy 4 credits

Elective credits: 22-45
Total Credits in the Dual Major: 38-39
Courses

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)

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)

PHL 131 Field Work in Ethics
3 hours; 3 credits
The student must be working at a job, paid or volunteer, for at least six hours a week in an organizational setting. Through an extensive ongoing journal, the student develops ethical analysis of job-related events and integrates these with ethical theory as taught in PHL 130. Four areas of knowledge will be stressed: ethical self-observation and judgment; assessment of relations between individuals on different status levels of the organizations; how the built-in structures of the organization may aid or hamper self-esteem and/or work performance; and, finally, how truly the organization functions according to its socially mandated goals. Periodic individual conferences will be scheduled with the instructor. Pre- or corequisite: PHL 130

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) 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) 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) 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) 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) Prerequisites: A 100-level course in philosophy or sophomore standing; ENG 111, COR 100

PHL 214 Philosophy of History
4 hours; 4 credits
Epistemological and metaphysical presuppositions and problems of major theories (e.g., those of Augustine, Vico, Kant, Marx, Collingwood, Toynbee, and Teilhard de Chardin. Prerequisite: A 100-level course in philosophy or sophomore standing

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) 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, Dostoyevsky, and Ayer. (social science) 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)
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)
Prerequisites: A 100-level course in philosophy or sophomore standing; ENG 111, COR 100

PHL 222  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)
Prerequisites: A 100-level course in philosophy or sophomore standing; ENG 111, COR 100

PHL 223  Selected Issues in Metaphysics
4 hours; 4 credits
A study of a selected issue or issues in metaphysics. The particular issue for the semester will be announced in the Schedule of Classes. Possible topics include: Philosophy of Mind, Ontology, Causality, Free Will and Determinism, Space and Time. (social scientific)
Prerequisites: A 100-level philosophy course or sophomore standing; ENG 111, COR 100

PHL 224  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 225  Life and Death: Bioethics
4 hours; 4 credits
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)
Prerequisites: ENG 111, COR 100; a 100-level course in philosophy or sophomore standing

PHL 226  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)
Prerequisites: A 100-level course in philosophy or sophomore standing; ENG 111, COR 100

PHL 227  Ethical Issues in Business and Society
(Also BUS 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 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 228  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)
Prerequisites: A 100-level course in philosophy or sophomore standing; ENG 111, COR 100

PHL 229  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 overview 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 230  Comparative Religion
4 hours; 4 credits
A comparative study of the great religious systems (e.g., Hinduism, Buddhism, Confucianism, Taoism, Zoroastrianism, Judaism, Christianity, and Islam). (social science) (p&d)
Prerequisites: A 100-level course in philosophy or sophomore standing; ENG 111, COR 100

PHL 231  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 307  History of Legal Thought
(Also POL 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.

PHL 312  Descartes to Kant
4 hours; 4 credits
The beginning of modern philosophy—epistemology, ethics, and political thought—will be studied through readings from some of the major figures of the 17th and 18th centuries. Readings will be drawn from the works of Descartes, Leibniz, Spinoza, Locke, Hume, Rousseau, and Kant. Special attention will be given to the opposition of empiricism and rationalism and to its resolution in Kant's work. Prerequisite: At least one 200-level course in philosophy or permission of the department.

PHL 314  Nineteenth-Century Philosophy
4 hours; 4 credits
This course attempts to form a coherent view of 19th-century philosophy by studying the major philosophical developments in Hegel, Marx, Kierkegaard, and Nietzsche. Discussion topics will include the nature of man as a historical being, the problem of a foundation of values, and the problem of alienation. Prerequisite: At least one 200-level course in philosophy or permission of the department.

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 or permission of the department.

PHL 321  Mathematical Logic
(Also MTH 350)
4 hours; 4 credits

PHL 331  Moral, Legal, and Political Philosophy
4 hours; 4 credits
The nature of moral and legal principles and, in particular, their application to 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 permission of the department.

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. The particular topic for the semester will be announced in the Schedule of Classes. Possible topics include physician-assisted suicide, eugenics, health care rights, welfare, and property rights. Prerequisite: At least one 200-level course in philosophy or permission of the department.

PHL 344  Eastern Philosophy
4 hours; 4 credits
An inquiry, both theoretical and experiential, into 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. (p&d) 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 or permission of the department.

PHL 350  Theories of Literature and Criticism
(Also ENL 460)
4 hours; 4 credits
A consideration of some of the main historical and contemporary theories of the nature of literature and the problems of criticism. Readings will be drawn from Aristotle to the post-structuralists. Major topics will be mimesis, expression, form, genre, convention, and aesthetic experience. Prerequisites: Senior standing and an ENL 300-level literature course.
PHL 400 Senior Seminar I  
PHL 401 Senior Seminar II  
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, and Philosophy  
4 hours; 4 credits  
(also ECO 490 and POL 490)  
Selected topics in which ideas and approaches from economics, political science, and philosophy either mesh or collide will be explored. Required of all students expecting to graduate with Honors in political science, economics, or philosophy, 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

PHOTOGRAPHY  
(See Art/Photography Concentration)  
Department of Performing and Creative Arts  
Chair: Associate Professor Sylvia Kahan, Center for the Arts (1P), Room 203

Courses

PHO 120 Basic Photography  
4 hours; 3 credits  
An introduction to the practice of black and white photography. A study of the history and development of photography as an art form as well as basic principles and techniques of camera and darkroom practice. A prerequisite for all other studio photography courses.

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. Fiber-based paper printing, toning, bleaching, pushed film processing, selective contrast, and an introduction to color are included.  
Prerequisite: PHO 120 or permission of the instructor

PHO 230 Color Photography  
4 hours; 3 credits  
An introduction to expressive color photography, utilizing transparencies and color printing. Projects will explore the creative and technical possibilities of color film. The class will focus on color theory, field and studio production, and critiques of student work.  
Prerequisite: PHO 120 or permission of the instructor

PHO 240 Photojournalism  
4 hours; 3 credits  
An in-depth study of photojournalism, including, news photography, the journalistic portrait, the picture sequence, picture story, and picture essay. The development of photojournalism and its role in society will be explored. Students will produce news photographs, a journalistic portrait, and a picture story.  
Prerequisite: PHO 120 or permission of the instructor

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.  
Prerequisite: PHO 120 or permission of the instructor

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.  
Prerequisite: Any 200-level PHO course or permission of the instructor  
This course may be repeated for credit.

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.  
Prerequisite: PHO 250 or permission of the instructor

PHYSICAL EDUCATION COURSE  
Department of Nursing  
Chair: Associate Professor Mary O’Donnell, Marcus Hall (5S), Room 213

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  
Successful completion of PED 190 fulfills the general education requirement in Physical Education.
PHYSICAL THERAPY*
(Bachelor of Science/Master of Science)
Department of Biology
Coordinator: Professor Jeffrey Rothman, Engineering Technologies-East
Building (5N), Room 207
The combined Bachelor of Science/Master of Science degree program in
Physical Therapy is designed to prepare graduates for entry-level positions
in the profession. Upon successful completion of all the requirements,
students will be awarded both degrees: the BS in Physical Therapy and the
MS in Physical Therapy. The two degrees will be awarded concurrently.
The Physical Therapy program is accredited by the Commission on
Accreditation in Physical Therapy Education of the American Physical
Therapy Association.
*Note: The Physical Therapy Program is planning to offer the Clinical
Doctorate in Physical Therapy for the 2006 spring class, pending all
approval processes within CUNY and the New York State Department of
Education. The DPT will be jointly offered by the CUNY Graduate Center
and the College of Staten Island. Once the DPT program is approved,
admissions to the BS/MS program in Physical Therapy will be suspended.
Should the DPT program not receive approval in time for the 2006 spring
semester, the College will continue to offer the BS/MS program. Prospective
applicants to the Physical Therapy program should contact the program
directly at 1.718.982.3153 or by email to rothmanj@mail.csi.cuny.edu.

Admission Requirements to the professional phase of the
program:
The Physical Therapy Admissions committee, comprised of physical therapy
faculty, biology faculty, physical therapy clinicians, and a representative of the
Admissions Office, determines the admission of candidates to the program.
Students must successfully complete the general education requirements and
the pre-major requirements with a minimum cumulative grade point average
of 2.8 in the Pre-Major Requirements to be considered for the program.
Admission to the program is competitive and criteria for selection
include the strength of the academic record (with particular emphasis on
performance in science courses); written and oral communication skills;
volunteer and/or work experience in a physical therapy setting, minimum
of 200 hours, of which 100 hours must be in a hospital or skilled nursing
facility; and recommendations.

Retention Standards
Students must have a minimum grade point average (GPA) of 3.0 (B) to be
retained in a graduate program. Students whose GPAs fall below 3.0 are on
probationary status. If a student has completed the number of credits
required for both the graduate and undergraduate degrees and has less
than a 3.0 average in the graduate phase (600-level courses or above),
he/she may repeat no more than two 600-level or above courses (6-8
credits) in order to bring the average to 3.0. Written permission of the
program coordinator is required. The specific courses to be taken must be
approved in writing by the program coordinator.

Physical Therapy (BS/MS)
Students must maintain an average of 3.0 (B) in the 41 credits of graduate
courses for retention in the program.

General Education Requirements for the BS
ENG 111, ENG 151, COR 100, PED 190: 12 credits
Whenever possible, these four courses should be completed within the first
36 credits.

Scientific Analysis; Social Scientific Analysis; The
Contemporary World; Textual, Aesthetic, and Linguistic
Analysis; Pluralism and Diversity requirements: 21-27 credits
Whenever possible, these courses should be completed within the first 60
credits.

1. Scientific Analysis: (11 credits)
   a. Science and Technology: (8 credits)
   b. Mathematics: (3 credits)
2. Social Scientific Analysis: (3-4 credits)
3. The Contemporary World: (4 credits)
4. Textual, Aesthetic, and Linguistic Analysis: (3-4 credits)
   a. Literature: 200-level
   b. Arts and Communications: 100-level
   c. Arts and Communications: 200-level
5. Pluralism and Diversity Requirement: (0-4 credits)
See section on general education requirements for approved course lists and
complete details.

Pre-Major Requirements: 37-39 credits
BIO 150 Human Anatomy and Physiology I 4 credits
BIO 160 Human Anatomy and Physiology II 4 credits
CHM 141 General Chemistry I 3 credits
CHM 142 General Chemistry II 3 credits
CHM 127 General Chemistry II Laboratory 1 credit
BIO 272 Biometrics
or
MTH 214 Applied Statistics Using Computers 4 credits
BIO 318 Histology 4 credits
BIO 332 Advanced Human Anatomy 4 credits
BIO 342 Advanced Human Physiology 4 credits
BIO 368 Neuroscience 4 credits
BIO 382 Pharmacotherapeutics 3 credits
BIO 432 Clinical Pathology 3 credits
PHT 310 Health Promotion for Self and Society 3 credits
PHT 230 Biomechanics and Kinesiology 3 credits

Major Requirements: 94 credits: 53 undergraduate credits
and 41 graduate credits
BIO 318 Histology 4 credits
BIO 332 Advanced Physiology 4 credits
BIO 342 Advanced Human Physiology 4 credits
BIO 368 Neuroscience 4 credits
BIO 382 Pharmacotherapeutics 3 credits
BIO 432 Clinical Pathology 3 credits
PHT 310 Health Promotion for Self and Society 3 credits
PHT 200 Physical Therapy Praxis I: Basic Patient Skills 4 credits
PHT 230 Biomechanics and Kinesiology 3 credits
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>PHT 200</td>
<td>Physical Therapy Praxis I: Basic Patient Skills</td>
<td>4</td>
</tr>
<tr>
<td>PHT 230</td>
<td>Biomechanics and Kinesiology</td>
<td>3</td>
</tr>
<tr>
<td>PHT 250</td>
<td>Physical Therapy Praxis II: Tests and Measurements</td>
<td>4</td>
</tr>
<tr>
<td>PHT 270</td>
<td>Clinical Practicum I</td>
<td>3</td>
</tr>
<tr>
<td>PHT 300</td>
<td>Physical Therapy Praxis III: Therapeutics Modalities</td>
<td>4</td>
</tr>
<tr>
<td>PHT 310</td>
<td>Health Promotion for Self and Society</td>
<td>3</td>
</tr>
<tr>
<td>PHT 350</td>
<td>Physical Therapy Praxis IV: Cardiopulmonary Rehabilitation</td>
<td>4</td>
</tr>
<tr>
<td>PHT 370</td>
<td>Clinical Practicum II</td>
<td>3</td>
</tr>
<tr>
<td>PHT 405</td>
<td>Research Methodologies</td>
<td>3</td>
</tr>
<tr>
<td>PHT 600</td>
<td>Physical Therapy Praxis V: Orthopaedic Evaluation and Treatment</td>
<td>4</td>
</tr>
<tr>
<td>PHT 605</td>
<td>Research Design</td>
<td>3</td>
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<tr>
<td>PHT 606</td>
<td>Research Seminar I</td>
<td>3</td>
</tr>
<tr>
<td>PHT 608</td>
<td>Health Care Administration</td>
<td>3</td>
</tr>
<tr>
<td>PHT 615</td>
<td>Interventions in Developmental Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>PHT 630</td>
<td>Pathokinesiology</td>
<td>3</td>
</tr>
<tr>
<td>PHT 631</td>
<td>Advanced Assessment of Human Motion</td>
<td>3</td>
</tr>
<tr>
<td>PHT 650</td>
<td>Physical Therapy Praxis VI: Neuromotor Facilitation</td>
<td>4</td>
</tr>
<tr>
<td>PHT 651</td>
<td>Physical Therapy Praxis VII: Current Topics in Rehabilitation</td>
<td>3</td>
</tr>
<tr>
<td>PHT 660</td>
<td>Advanced Topics in Physical Therapy</td>
<td>3</td>
</tr>
<tr>
<td>PHT 670</td>
<td>Clinical Practicum III</td>
<td>6</td>
</tr>
<tr>
<td>PHT 706</td>
<td>Research Seminar II</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives: 7-10 credits
Total Credits Required: 162

Courses

**PHT 200**  
Physical Therapy Praxis I: Basic Patient Skills  
3 class hours, 3 laboratory hours; 4 credits  
Examines the multifaceted role of the physical therapist in the health care delivery system. Introduces the student to basic clinical skills and problem solving abilities that will serve as the foundation for future coursework. Application of basic evaluation tools and intervention strategies introduced in lectures.  
Prerequisites: BIO 160, PHY 156, and acceptance into the PT program.

**PHT 230**  
Biomechanics and Kinesiology  
2 class hours, 3 laboratory hours; 3 credits  
This course provides an in-depth study of the biomechanics and kinesiology of human motion. Examines the normal patterns in preparation for clinical assessment and integration.  
Prerequisites: BIO 332, BIO 342, PHT 200

**PHT 250**  
Physical Therapy Praxis II: Tests and Measurements  
3 class hours, 3 laboratory hours; 4 credits  
Evaluation and clinical interventions related to therapeutic exercise techniques, includes goniometry, manual muscle testing, posture and gait assessment as they are adapted to pathokinesiological conditions and their relationship to specific exercise choices. History and evolution of therapeutic exercise leading to techniques for isolated and segmental manual exercises followed by multisegmental and full-body integration methods.  
Prerequisites: PHT 200, PHT 230

**PHT 270**  
Clinical Practicum  
40 hours per week, full-time for 6 weeks; 3 credits  
A clinical internship in a general hospital setting. Under the supervision of a licensed physical therapist, the student will integrate and apply coursework to provide quality care in the evaluation and treatment of patients with a variety of diagnoses. The emphasis is on exposure to and participation in the environment in which a staff therapist functions.  
Prerequisites: PHT 300, PHT 350

**PHT 300**  
Physical Therapy Praxis III: Therapeutics Modalities  
3 class hours, 3 laboratory hours; 4 credits  
This course is designed to acquaint the student with thermal, electrotherapeutic, and hydrotherapeutic procedures used in the evaluation and treatment of pain and dysfunction. Includes the examination of the effect of thermal and electrical modalities on the human body. Includes a laboratory component that is designed to provide the necessary experiences for the student to develop problem solving skills in the application of therapeutic modalities along the wellness-illness continuum, (i.e., consideration of the psychological, social, and environmental factors that may contribute to the success of the therapeutic program).  
Prerequisite: PHT 250

**PHT 310**  
Health Promotion for Self and Society  
3 hours; 3 credits  
The study of traditional and contemporary definitions of health. Describes the holistic approach to health care with emphasis on the illness-wellness health continuum across the life span. Examines the interrelationships between nutrition and health, mind and body, and physical activity and health. Students will assess their own health status from a holistic perspective. Students will begin to identify community needs that would benefit from a program of health promotion and disease prevention.  
Prerequisites: PHT 350, PHT 450

**PHT 350**  
Physical Therapy Praxis IV: Cardiopulmonary Rehabilitation  
3 class hours, 3 laboratory hours; 4 credits  
Application of principles of cardiopulmonary physiology to an understanding of pathology and disease and prevention. The student will learn to evaluate and treat chronic and acute cardiopulmonary problems, and to teach clients strategies for preventing cardiopulmonary dysfunction. The student will also learn to predict and manage cardiopulmonary dysfunction in patients with other primary diagnoses.  
Prerequisite: PHT 250

**PHT 370**  
Clinical Practicum II  
40 hours per week, full-time for 8 weeks; 3 credits  
An eight-week affiliation in a facility for the developmentally disabled. Designed to serve as the capstone of the student's education. Serves to further refine and enhance students' skills while building on past clinical experiences. Provides the opportunity for the student to participate in the environment in which a staff therapist functions.  
Prerequisites: PHT 600, PHT 650

**PHT 405**  
Research Methodologies  
3 hours; 3 credits  
Introduction to the scientific methods of inquiry used in research and their meaning in physical therapy practice. Includes identification of problems, research design, methodology, and reporting of results. Applications of computer technology to research are emphasized. Students begin to identify a research area of interest related to the developmental disabilities.  
Prerequisite: PHT 250
PHT 600  Physical Therapy Praxis V: Orthopedic Evaluation and Treatment
3 class hours, 3 laboratory hours; 4 credits
Examines the theoretical applications of various mobilization techniques and pain and stress management for the orthopedic patient. Emphasis upon joint and vertebrae evaluation and mobilization techniques.
Prerequisites: PHT 270, PHT 350

PHT 605  Research Design
3 hours; 3 credits
Emphasis will be placed on the acquisition of methods and techniques for extending the scientific base of knowledge for advanced physical therapy practice. Research studies that address questions of impact on rehabilitation and that are drawn from an interdisciplinary health perspective will serve as the focus for discussion. Research designs and related statistical processes will be examined in terms of their appropriateness for addressing various rehabilitation problems.
Prerequisite: PHT 405

PHT 606  Research Seminar I
3 hours; 3 credits
Implementation of research study and preparation to submit for publication in a professional journal. Independent study with faculty adviser.
Prerequisites: PHT 405, PHT 310

PHT 608  Health Care Administration
3 hours; 3 credits
Lectures and discussions will provide information concerning the physical therapist's responsibility in the management of the physical therapy department within a health care system. Areas include financial consideration, supervision and leadership skills, hospital administration, and socioeconomic aspects of health care.
Prerequisite: PHT 270

PHT 615  Interventions for Developmental Disability
3 hours; 3 credits
Through lecture and laboratory experiences, discussion, clinical visits, and readings, the student will be able to examine the various theories and practices designed for intervention for developmental disabilities and discuss and analyze current research findings in the area.
Prerequisite: PHT 650

PHT 630  Pathokinesiology
2 class hours, 3 laboratory hours; 3 credits
Critical review and assessment of physical therapy treatments and evaluation for pain and stress management as related to the musculoskeletal system. Students will compare and analyze current theories of orthopedic physical therapy management. Students will design a corporate fitness or pain presentation program.
Prerequisites: PHT 600, PHT 650

PHT 631  Advanced Assessment of Human Motion
2 class hours, 3 laboratory hours; 3 credits
Advanced study of the neurophysiological principles underlying human motion with special attention to the application of principles to assess normal and abnormal motion. Examination of theoretical concepts that attempt to explain motor control. Examination of principles of motor learning and task analysis, and their application to rehabilitation and patient and family education. Evaluation of neurophysiological techniques to improve the quality of motion.
Prerequisites: PHT 650, PHT 310

PHT 650  Physical Therapy Praxis VI: Neuromotor Facilitation
3 class hours, 3 laboratory hours; 4 credits
Evaluation of patients with neuromotor dysfunction and application of therapeutic techniques to facilitate improved neuromotor function. Introduction to theoretical applications of Bobath, Brunnstrom, Rood, and Voss. Also includes rehabilitation of the spinal cord patient.
Prerequisites: PHT 270, PHT 350

PHT 651  Physical Therapy Praxis VII: Current Topics in Rehabilitation
2 class hours, 3 laboratory hours; 3 credits
Study of advanced assessment and specialized treatment methodologies in physical therapy practice. Areas include dance and athletic injuries, burns, hand and cancer rehabilitation. Includes laboratory prosthetics and orthotics, and clinical activities.
Prerequisite: PHT 631

PHT 660  Advanced Topics in Physical Therapy
3 hours; 3 credits
Examines the theoretical foundations and the principles of practice of selected alternative treatments in physical therapy. Reviews the efficacy of physical therapy procedures. Presents the conceptual bases of alternative approaches from a critical analytical perspective. Assessment of clinical strategies is an important aspect of the course. Student presentations and demonstrations of these approaches are utilized, along with current research findings.
Prerequisites: PHT 631, PHT 370

PHT 670  Clinical Practicum III
40 hours per week, 12 weeks of full-time clinical internship; 6 credits
An affiliation of approximately 12 weeks. The overall purpose is for the student to practice and perfect treatment techniques, skills, and knowledge previously acquired and utilized in the clinical setting. Students may opt for an acute care facility to see a variety of patient problems or for a more specific specialty area such as pediatrics or sports medicine. These affiliations build on past experiences and integrate coursework and skills from the third year.
Prerequisites: PHT 600, PHT 605, PHT 608, PHT 615, PHT 631

PHT 706  Research Seminar II
3 hours; 3 credits
Continuation of PHT 606; implementation of research study and submit for publication in a professional journal. Independent study with faculty advisement.
Prerequisite: PHT 606
PHYSICIAN ASSISTANT
(Bachelor of Science)
Department of Biology
Coordinator and Academic Adviser: Professor Alvin Silverstein, Biological Sciences/Chemical Sciences Building (65), Room 139
The Department of Biology offers a program leading to the BS degree in Physician Assistant in conjunction with clinical affiliations.

The Physician Assistant program prepares students to assist the primary care physician in providing patient services. The curriculum provides a comprehensive academic background in the liberal arts and sciences and in technical and clinical training. On successful completion of the program, graduates are eligible for registration as a Physician Assistant in New York State and are also eligible for the National Certifying Examination for Primary Care Physician Assistants, sponsored by the National Commission on Certification of Physician Assistants and prepared by the National Board of Medical Examiners.

Students are required to satisfy general education, pre-major, and major requirements; approximately two years are spent on campus and two years (60 credits) are spent in didactic/clinical training at an approved affiliate hospital.

Admission Requirements
Students meeting the College admissions criteria for entry into a baccalaureate program will be considered for admission to the program. Students who do not meet the criteria for admission as baccalaureate students will be admitted to the AS degree program in Liberal Arts and Sciences.

In addition to the CUNY Basic Skills Tests, students are required to take the Biology Department Placement Test.

Students who have completed most of the pre-major and major requirements may apply to the didactic/clinical portion of the program. Students will be interviewed by a joint committee of CSI and hospital faculty; admission is competitive. The remainder of the requirements must be completed prior to entering the hospital portion of the program.

Transfer students may apply for admission prior to the didactic/clinical portion of the program. They must complete a 12-credit residency at CSI before entering the hospital portion of the program.

Health Documentation: Each student must have an annual physical examination and provide documentation of a chest x-ray, PPD test, varicella titer; and immunization for MMR (measles, mumps, rubella), hepatitis B, and poliomyelitis. This documentation must be completed and on file in the College Health Center located in the Campus Center before the first day of classes. Students may not participate in clinical activities without a completed health record on file, and must have a copy of the health documentation available on the first day of the program.

Insurance: Insurance must be obtained before beginning the hospital component of the program and must be maintained until completion of the program. Didactic/clinical practice may not begin until the insurance is in effect.

Uniforms: Physician assistant students are required to wear uniforms. Information about uniforms is available from the department.

Physician Assistant (BS)

General Education Requirements for the BS
ENG 111, ENG 151, COR 100, PED 190: 12 credits
Whenever possible, these four courses should be completed within the first 36 credits.

Scientific Analysis; Social Scientific Analysis; The Contemporary World; Textual, Aesthetic, and Linguistic Analysis; Pluralism and Diversity requirements: 21-27 credits
Whenever possible, these courses should be completed within the first 60 credits.
1. Scientific Analysis: (11 credits)
   a. Science and Technology: (8 credits)
   b. Mathematics: (3 credits)
2. Social Scientific Analysis: (3-4 credits)
3. The Contemporary World: (4 credits)
4. Textual, Aesthetic, and Linguistic Analysis: (3-4 credits)
   a. Literature: 200-level
   b. Arts and Communications: 100-level
   c. Arts and Communications: 200-level
5. Pluralism and Diversity Requirement: (0-4 credits)
   See section on general education requirements for approved course lists and complete details.

Pre-Major Requirements: 30 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>BIO 160 Human Anatomy and Physiology II</td>
<td>4 credits</td>
</tr>
<tr>
<td>CHM 141 General Chemistry I</td>
<td>3 credits</td>
</tr>
<tr>
<td>CHM 121 General Chemistry I Lab</td>
<td>1 credit</td>
</tr>
<tr>
<td>CHM 142 General Chemistry II</td>
<td>3 credits</td>
</tr>
<tr>
<td>CHM 127 General Chemistry II Lab</td>
<td>1 credit</td>
</tr>
<tr>
<td>MTH 130 Pre-Calculus</td>
<td>3 credits</td>
</tr>
<tr>
<td>PST 100 Psychology*</td>
<td>3 credits</td>
</tr>
<tr>
<td>BIO 350 Microbiology and Cellular Pathology</td>
<td>3 credits</td>
</tr>
<tr>
<td>BIO 351 Microbiology and Cellular Pathology Lab</td>
<td>1 credit</td>
</tr>
<tr>
<td>PHY 116 Physics I</td>
<td>4 credits</td>
</tr>
</tbody>
</table>

*Satisfies Social Scientific Analysis general education requirement

Major Requirements: 71 credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BIO 342 Advanced Human Anatomy</td>
<td>4 credits</td>
</tr>
<tr>
<td>PHY 156 Physics II</td>
<td>4 credits</td>
</tr>
<tr>
<td>BIO 382 Pharmacotherapeutics</td>
<td>3 credits</td>
</tr>
<tr>
<td>PAT 100 Physician Assistant Training 1</td>
<td>15 credits</td>
</tr>
<tr>
<td>PAT 200 Physician Assistant Training 2</td>
<td>15 credits</td>
</tr>
<tr>
<td>PAT 300 Physician Assistant Training 3</td>
<td>15 credits</td>
</tr>
<tr>
<td>PAT 400 Physician Assistant Training 4</td>
<td>15 credits</td>
</tr>
</tbody>
</table>

Electives: 0-7 credits

Total Credits Required: 121-128

Liberal Arts and Sciences Requirement:
Of the credits required for the BS in Physician Assistant degree, at least one-half must be in liberal arts and sciences courses. All PAT courses are non-liberal arts and sciences.

Criteria for Continuation in the Program
Once accepted as a Physician Assistant major, a student must maintain a 3.0 grade point average with a minimum grade of C in all courses required for the major, including BIO 342. Courses in the didactic/clinical component are graded pass/fail. Failure in the didactic portion in one phase (as defined in the hospital student handbook) will result in academic probation; failure in any subsequent phase will result in immediate dismissal from the PA program. In the clinical portion of the program, students must pass all clinical examinations. If an examination is failed, a second examination must be taken and passed to continue in the program.
Students take at least 12 credits at the College of Staten Island prior to beginning the hospital component of the program. A minimum of two courses, including at least one advanced biology course, must be taken prior to the didactic/clinical admissions interview. The advanced course must be approved by the Physician Assistant program coordinator; courses designed for non-science majors and courses included in the pre-major requirements for PA majors do not fulfill the requirement for an advanced biology course.

Admission to the hospital portion of the program is competitive. A minimum GPA of 3.0 is required for application to the hospital component. Applicants must present documentation of 40 hours spent shadowing a physician assistant prior to application to the hospital component.

Courses

**PAT 100  Physician Assistant Training 1**
42 weeks; 30 credits
The didactic material is presented in 12 phases during the first 42 weeks of instruction. The 12 phases are: integumentary, head and neck, musculoskeletal, respiratory, cardiovascular, neurology, endocrine, gastrointestinal, genitourinary, reproductive, and pediatric.

Within each phase, didactic material is grouped into the following categories: anatomy and physiology, medical/surgical techniques, clinical pharmacology, dietetics, health history and physical examination, medicine, pathology, radiology, and surgery. In addition to the integrated phases, concomitant courses are taught in cardiopulmonary resuscitation, clinical chemistry, clinical laboratory, clinical laboratory practical, communications and healing, epidemiology, geriatrics, home health care, human behavior in family practice, introduction to primary care, survey of medical microbiology, and quality assurance.

Common clinical disorders, diagnostic tests, and management of the patient are taught in each phase. While basic medical and surgical theories are taught, emphasis is placed on provision of care, follow-up care, and counseling in a primary care setting.

**PAT 200  Physician Assistant Training 2**
52 weeks; 30 credits.

Clinical practice training provides exposure in the following areas: surgical laboratory, operating room inpatient and outpatient care in medicine, surgery, pediatrics, obstetrics, gynecology, emergency medicine, psychiatry, and primary care.

Elective rotations are offered in: orthopedics, urology, radiology, hemodialysis, and ophthalmology. The rotations are designed to emphasize the performance of diagnostic, therapeutic, preventive, and health maintenance services in any setting. The hospital has clinical affiliates in nine locations throughout the five boroughs.

**PHYSICS**

Department of Engineering Science and Physics
Coordinator: Professor William Schreiber, Computer Science/Engineering Science and Physics Building (1N), Room 238

**Physics (BS)**

**General Education Requirements for the BS**

ENG 111, ENG 151, COR 100, PED 190: 12 credits
Whenver possible, these four courses should be completed within the first 36 credits.

**Scientific Analysis; Social Scientific Analysis; The Contemporary World; Textual, Aesthetic, and Linguistic Analysis; Pluralism and Diversity requirements: 21-27 credits**
Whenver possible, these courses should be completed within the first 60 credits.

1. **Scientific Analysis:** (11 credits)
   a. Science and Technology: (8 credits)
   b. Mathematics: (3 credits)

2. **Social Scientific Analysis:** (3-4 credits)

3. **The Contemporary World:** (4 credits)

4. **Textual, Aesthetic, and Linguistic Analysis:** (3-4 credits)
   a. Literature: 200-level
   b. Arts and Communications: 100-level
   c. Arts and Communications: 200-level

5. **Pluralism and Diversity Requirement:** (0-4 credits)
See section on general education requirements for approved course lists and complete details.

**Pre-Major Requirements: 32 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>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 120</td>
<td>General Physics I</td>
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<tr>
<td>PHY 121</td>
<td>General Physics I Laboratory</td>
<td>1 credit</td>
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<tr>
<td>PHY 160</td>
<td>General Physics II</td>
<td>3</td>
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<tr>
<td>PHY 161</td>
<td>General Physics II Laboratory</td>
<td>1 credit</td>
</tr>
<tr>
<td>PHY 240</td>
<td>Waves and Modern Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHY 250</td>
<td>Engineering Mechanics</td>
<td>3</td>
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<tr>
<td>MTH 229</td>
<td>Calculus Computer Laboratory</td>
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<tr>
<td>MTH 230</td>
<td>Calculus I with Pre-Calculus</td>
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<tr>
<td>MTH 229</td>
<td>Calculus Computer Laboratory</td>
<td></td>
</tr>
<tr>
<td>MTH 231</td>
<td>Analytic Geometry and Calculus I</td>
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<td>MTH 232</td>
<td>Analytic Geometry and Calculus II</td>
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<td>MTH 233</td>
<td>Analytic Geometry and Calculus III</td>
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<tr>
<td>MTH 229</td>
<td>Calculus Computer Laboratory</td>
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<tr>
<td>MTH 235</td>
<td>Accelerated Calculus I</td>
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<tr>
<td>CHM 141</td>
<td>General Chemistry I</td>
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<tr>
<td>CHM 121</td>
<td>General Chemistry I Laboratory</td>
<td>1 credit</td>
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<tr>
<td>CHM 142</td>
<td>General Chemistry II</td>
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<tr>
<td>CHM 127</td>
<td>General Chemistry II Laboratory</td>
<td>1 credit</td>
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</table>
Major Requirements: 47 credits

<table>
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<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CSC 270</td>
<td>Introduction to Scientific Computing</td>
<td>4</td>
</tr>
<tr>
<td>MTH 330</td>
<td>Applied Mathematical Analysis I</td>
<td>4</td>
</tr>
<tr>
<td>MTH 331</td>
<td>Applied Mathematical Analysis II</td>
<td>4</td>
</tr>
<tr>
<td>PHY 310</td>
<td>Thermodynamics</td>
<td>4</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 383</td>
<td>Electrical Properties of Materials</td>
<td></td>
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<tr>
<td>or</td>
<td>Mechanical Properties of Materials</td>
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<tr>
<td>PHY 384</td>
<td>Mechanical Properties of Materials</td>
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<tr>
<td>PHY 390</td>
<td>Basic Measurements Laboratory</td>
<td>2</td>
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<tr>
<td>PHY 315</td>
<td>Advanced Physics Laboratory</td>
<td>2</td>
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<tr>
<td>PHY 442</td>
<td>Quantum Mechanics</td>
<td>4</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.

Electives: 1 credit

Total Credits Required: 120

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. (science)
Prerequisite: 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. (science)
Prerequisite: 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. (science)
Prerequisites: MTH 020 or an appropriate score on the CUNY Mathematics Assessment Test and the CUNY/ACT Reading Skills and Writing Sample tests.

**PHY 107  Maxwell to Einstein and Beyond**
3 class hours, 2 laboratory hours; 4 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. (science)
Prerequisite: MTH 030

**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. (science)
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. (science)
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. (science)
Prerequisite: 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; introduction 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)
Prerequisite: MTH 123

**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)
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)
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)
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)
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)
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)
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, spectrooscope. (science)
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.
Prerequisites: A minimum GPA of 2.75; 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.
Prerequisite: PHY 160 or 230
Pre- or corequisite: MTH 330

PHY 250  Engineering Mechanics
(Also ENS 250)
3 hours; 3 credits
Prerequisites: PHY 120 and 121 or PHY 230
Pre- or corequisites: MTH 233 or MTH 236

PHY 309  Basic Measurements Laboratory
(Also ENS 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 is emphasized. (Non-liberal arts designation)
Prerequisite: PHY 310

PHY 310  Thermodynamics
(Also ENS 310)
4 hours; 4 credits
Prerequisite: PHY 160 or PHY 230
Pre- or corequisites: MTH 233 or MTH 236

PHY 312  Nuclear Physics
4 hours; 4 credits
Nuclear force, nuclear structure, applications of special relativity, nuclear reactions, radioactive decay.
Prerequisite: PHY 240

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: ENS 310 and CSC 270 or 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.
Prerequisite: 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 Boltzman 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, radiative transfer in stellar atmospheres.
Prerequisites: PHY 310, PHY 316, and PHY 356

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 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: ENS 310
Pre- or corequisite: MTH 330

PHY 485  Properties of Materials
(Also ENS 485)
4 hours; 4 credits
Prerequisite: Physics 240 or permission of the instructor
POLITICAL SCIENCE
(Bachelor of Arts, Dual Major with Philosophy, Minor)
Department of Political Science, Economics, and Philosophy
Coordinator: Associate Professor Michaela Richter, History/Political Science, Economics, and Philosophy Building (2N), Room 234

Political Science (BA)
General Education Requirements for the BA
ENG 111, ENG 151, COR 100, PED 190: 12 credits
Whenever possible, these four courses should be completed within the first 36 credits.

Scientific Analysis; Social Scientific Analysis; The Contemporary World; Textual, Aesthetic, and Linguistic Analysis; Pluralism and Diversity requirements: 28-47 credits
Whenever possible, these courses should be completed within the first 60 credits.
1. Scientific Analysis: (11 credits)
   a. Science and Technology: (8 credits)
   b. Mathematics: (3 credits)
2. Social Scientific Analysis: (7-8 credits)
3. The Contemporary World: (4 credits)
4. Textual, Aesthetic, and Linguistic Analysis: (6-8 credits)
   a. Literature: 200-level
   b. Arts and Communications: 100-level
   Arts and Communications: 200-level
5. Pluralism and Diversity Requirement: (0-4 credits)
6. Foreign Language: (0-12 credits)
See section on general education requirements for approved course lists and complete details.

Major Requirements: 31 credits
Thirty-one credits in political science courses including POL 100 American Government and Politics or POL 235 The American Political System, and at least one course above the 100 level in each of the following areas:
1. American Politics (POL 220-239, 320-339)
2. Political Theory (POL 200-219, 300-319)
3. Comparative Politics (POL 240-259, 340-359)
4. International Politics (POL 260-279, 360-394)
At least 28 credits must be at or above the 200 level and, of these, at least 12 credits must be at or above the 300 level.
In addition, students must take 12 credits in social science courses other than political science chosen in consultation with a faculty adviser.

Electives: 18–41 credits
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 POL/ECO/PHL 490 Senior Seminar in Political Science, Economics, and Philosophy, and a thesis or project determined by the student and his or her faculty sponsor.

Dual Major in Philosophy and Political Science
Requirements for the dual major in Philosophy and Political Science (BA) are the general education requirements, 19 credits in philosophy, and 19-20 credits in political science; total of 120 credits required. (See description of program under Philosophy.)

Minor
At least 15 credits in political science including at least 12 credits at or above the 200 level. The courses must include:
1. Either POL 100 American Government and Politics or
   POL 235 The American Political System 3-4 credits
2. At least one course in one of the following:
   a. Political Theory
   b. Comparative Government
   c. International Politics 4 credits
3. At least one 300-level course 4 credits

Courses
POL 100 American Government and Politics
3 hours; 3 credits
A study of the structure and operations of the American political system, the process of its evolution, the philosophical principles and theories on which it rests, the social pressures and forces operating on it. (social science) Not open to students who have taken POL/SLS 235.

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)

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)
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)
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 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)
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.
Prerequisite: ENG 111, COR 100

POL 219 Politics and Film
(Also CIN 204)
4 hours; 4 credits
An analysis of the political and social perspectives and directing styles of a variety of European and American directors. The course will examine how race, social class, gender, ethnicity, revolution, the city, and national character and culture are represented in these films.
(social science) (arts & com.)
Prerequisite: 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 American presidency. The President's relations with Congress, political parties, and the cabinet. (social science)
Prerequisites: ENG 111, COR 100

POL 222 The American Legal System
4 hours; 4 credits
The role of law and the courts in American society and the historical background and philosophical principles upon which the American legal system is based. Examination of the powers and workings of courts, how judges and lawyers act, and how Americans are affected by the legal system.
(social science)
Prerequisites: COR 100, ENG 111

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)
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 American political process: the development, organization functions, the finances of American 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.
Prerequisite: 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 American 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)
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)
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)
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 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.
Prerequisites: A minimum GPA of 2.75; 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 239  The American Civil War
(Also AMS 239)
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

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 nations; and the interaction between politics, economy, and society in today’s interdependent world. (cont. wld.) (p&d) Prerequisites: ENG 151, COR 100

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 economics, their way of dealing with social diversity; their divergent solutions to social and economic problems. (social science) 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) Prerequisites: ENG 111, COR 100

POL 246  Naziism 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) Prerequisites: ENG 111, COR 100; sophomore standing or permission of the instructor

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. (cont. wld.) 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) Prerequisites: ENG 111, COR 100; sophomore standing

POL 253  African Politics
(Also AFA 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 socio-political 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. (p&d) Prerequisite: 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. (cont. wld.) (p&d) Prerequisites: ENG 151, COR 100

POL 259  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. (cont. wld.) Prerequisites: ENG 151, COR 100

POL 261  International Organizations
4 hours; 4 credits
Examines how international organizations (intergovernmental, nongovernmental, 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. (cont. wld.) Prerequisite: 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. (cont. wld.)
Prerequisites: ENG 151, COR 100

POL 303  Recent Political Theory
(Also PHL 305)
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 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

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 and; BUS 160 or any two POL courses or ECO 210

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, memorandum and bill writing, lobbying, talking with lobbyists, and meeting constituents. All students write a term paper of 12-15 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 American court systems, and the variables affecting the formulation of judicial policy are considered.
Prerequisite: Sophomore standing or permission of the instructor

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. (p&d)
Prerequisite: Sophomore standing or permission of the instructor

POL 340  Uniting Europe: The Political Economy of the European Union
4 hours; 4 credits
The course focuses on post-1945 movement toward the economic, monetary, and political union of European states. It examines 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, or permission of the instructor.

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 or permission of instructor

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. (p&d)
Prerequisite: A previous college-level course in politics or economics or permission of the instructor. The course 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 or permission of instructor

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. (p&d) 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. (p&d) Prerequisite: Sophomore standing and ENG 111

POL 365 Current American Foreign Policy
4 hours; 4 credits
An analysis of the historical roots of American foreign policy: how it is made, how it affects the average American, 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 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 or permission of the instructor

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. Prerequisite: Junior or senior standing, POL 260, and permission of the instructor

POL 490 Senior Seminar in Political Science, Economics, and Philosophy
(Also ECO 490 and PHL 490)
4 hours; 4 credits
Selected topics in which ideas and approaches from economics, political science, and philosophy either mesh or collide will be explored. Required of all students expecting to graduate with Honors in political science, economics, or philosophy, 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.

PREPARATION FOR PROFESSIONAL SCHOOL

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 adviser 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. Professor Emeritus Larry Nachman and Assistant Professor Richard Flanagan, Department of Political Science, Economics, and Philosophy, are pre-law advisers.

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 the study in depth of any of the liberal arts and sciences is 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 minimal 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, one or more advanced courses in science, sociology, 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.

Pre-Medicine Preparation
Medical schools in the United States do not require or recommend any particular undergraduate major for applicants. Most schools suggest that the study in depth of any of the liberal arts and sciences is valuable preparation for medical studies. All medical schools require a strong foundation in the natural sciences (biology, chemistry, physics, and mathematics), effective communications 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-medicine 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 minimal 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 strongly 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 interviews.

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.

Pre-Chiropractic Preparation

Chiropractic schools in the United States do not require or recommend any particular undergraduate major for applicants.

Most schools suggest that the study in depth of any of the liberal arts and sciences is 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 communications 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 minimal 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, 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.

Pre-Medical Advisory Committee

Students interested in dentistry, medicine, or chiropractic medicine should consult the Pre-Medical Advisory Committee, chaired by Associate Professor Elena C. McCoy, Department of Biology, 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 Science and Technology.

Professional School Affiliations

Medical School

The College of Staten Island has an early assurance agreement with the State University of New York Health Science Center at Brooklyn (SUNY/HSCB) whereby up to five places per year will be reserved in the entering medical school class for those CSI students who complete a bachelor's degree. Assurance of a seat in the medical college will be given after the student has completed the sophomore year and has met the following requirements:

a) A minimum overall GPA of 3.5.
b) A minimum science GPA of 3.5, calculated from all courses completed in the areas of biology, chemistry, physics, and mathematics.
c) An MCAT score acceptable to SUNY/HSCB, where no individual quantitative score would be lower than 9; applicants must take the test at the April administration during their junior year in college.
d) All courses required by the medical school would have a grade no lower than C, courses required by the medical school are: one year of general chemistry with lab (CHM 141/121 and CHM 142/127), one year of organic chemistry with lab (CHM 250/256), one year of biology with lab (BIO 170/171 and BIO 180/181), one year of physics with lab (PHY 116/116 or PHY 120/121, and PHY 160/161), one year of English composition and/or literature.

Students who meet the biology requirement with AP credit must take at least one advanced biology course at CSI; in addition, it is strongly recommended that students take a course in calculus and a course in biochemistry.

e) Course loads each semester must be a minimum of 12 credits and applicants must complete a minimum of three years at CSI before applying to the medical school.
f) All pre-med required courses must be completed at CSI.
g) The organic chemistry sequence should be completed at CSI by the end of the sophomore year, but no later than the fall semester of the junior year.
h) Students must take two science courses together during three of the five semesters they complete before applying to the medical school.
i) The program will give preference to applicants who have demonstrated commitment to community/social service outreach activities.
j) Students are required to have health-related work/volunteer/observational experiences before entering the medical school.
k) The program is limited to U.S. citizens or permanent residents who qualify as NY State residents.

Application procedure:

1. No later than March 15 of each year, CSI recommends to the medical school students in their junior year of college who are interested in early conditional admission to the medical school and who meet all the above criteria.
2. The recommended applicants fill out an HSCB supplemental application and write a short biographical statement including the reasons for applying to the program. CSI submits these materials to the medical school with a letter of recommendation from the Pre-Med Advisory Committee and a CSI transcript.
3. The College of Medicine reviews the applicants in April and selects five candidates.
4. Students selected by the medical school will receive conditional admission for the following year’s entering class, pending submission of satisfactory MCAT scores and satisfactory completion of the senior year and/or requirements for the BS/BA degree at CSI.

5. Accepted students fill out an “Early Decision” AMCAS application by June 1, designating the HSCB as their school of choice, and submit the application to the Admissions Office of the Medical School. All administrative procedures related to an official application will be taken care of by the medical school and there will be no application fees involved.

Students interested in this program should contact Associate Professor Elena C. McCoy, Building 6S, Room 312, 1.718.982.3860, as soon as possible after enrolling at CSI.

Optometry

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, 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.

Podiatric Medicine

The College of Staten Island has an affiliation agreement with the California College of Podiatric Medicine located in San Francisco. Students pursue a curriculum pre-approved by both the College of Staten Island and the California College of Podiatric Medicine. 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 podiatric medicine program at the California College of Podiatric Medicine. The bachelor’s degree is awarded after one year of successful study in the podiatric medicine program.

The minimum pre-podiatric medicine requirements are: two years of biological sciences; one year of general chemistry, organic chemistry or biochemistry, physics, English/communications skills; and two years of other courses in liberal arts and sciences.

A student must maintain a 3.2 grade point average or higher in required pre-podiatry courses, achieve a score of 35 or higher on the Medical College Admissions Test, and have a successful personal interview at the time of entry to the California College of Podiatric Medicine.

For detailed information, consult the Pre-Medical Advisory Committee.

PSYCHOLOGY

(Bachelor of Arts, Minor)
Department of Psychology
Chair: Associate Professor Wallace Orlowsky, Psychology/Sociology, Anthropology, and Social Work Building (4S), Room 108
(See the Graduate Catalog for information on graduate programs.)

Psychology (BA)

General Education Requirements for the BA
ENG 111, ENG 151, COR 100, PED 190: 12 credits
Whenever possible, these four courses should be completed within the first 36 credits.

Scientific Analysis; Social Scientific Analysis; The Contemporary World; Textual, Aesthetic, and Linguistic Analysis; Pluralism and Diversity requirements: 28–47 credits
Whenever possible, these courses should be completed within the first 60 credits.

1. Scientific Analysis: (11 credits)
   a. Science and Technology: (8 credits)
   b. Mathematics: (3 credits)

2. Social Scientific Analysis: (7-8 credits)

3. The Contemporary World: (4 credits)

4. Textual, Aesthetic, and Linguistic Analysis: (6-8 credits)
   a. Literature: 200-level
   b. Arts and Communications: 100-level
   Arts and Communications: 200-level

5. Pluralism and Diversity Requirement: (0-4 credits)

6. Foreign Language: (0-12 credits)
See section on general education requirements for approved course lists and complete details.

Major Requirements: 37 credits
Psychology majors must complete:

A. PSY 100 Psychology 3 credits
   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
   PSY 333 Experimental Psychology: Learning and Behavior 6 credits
   PSY 334 Experimental Psychology: Social and Personality 6 credits
   PSY 335 Experimental Psychology: Childhood Development 6 credits

B. At least four credits chosen from:
   PSY 232 Physiological Psychology: Cognitive and Behavioral Neuroscience 4 credits
   PSY 239 Physiological Psychology: Motivated Behavior 4 credits
   PSY 254 Phenomenological Psychology 4 credits
   PSY 288 Cognitive Psychology 4 credits
   PSY 332 Psychological Tests and Measurements 4 credits
C. At least four credits chosen from:
   - PSY 202 Psychopathology 4 credits
   - PSY 212 Social Psychology 4 credits
   - PSY 226 Theories of Personality 4 credits
   - PSY 242 Developmental Psychology 4 credits

D. At least eight additional credits chosen from any psychology courses at the 200 or higher level. The courses chosen for the Psychology major must include at least 14 credits at the 300 or 400 level. This means one additional four-credit course at the 300 or 400 level beyond the required PSY 352 and laboratory course. PSY 598 Internship in Psychology counts as such a course.

Electives: 24–43 credits

Total Credits Required: 120

PSY 103, 211, 318, 340, and 368 are non-liberal arts and science courses.

Honors

To graduate with Honors in Psychology a student must have a 3.5 grade point average in psychology courses and must complete an Honors thesis or project under the supervision of a psychology faculty member.

Minor

Prerequisite course:
   - PSY 100 Psychology 3 credits

Requirements:

One course chosen from each of the following four categories:

1. PSY 232 Physiological Psychology:
   - Cognitive and Behavioral Neuroscience 4 credits
   - Physiological Psychology:
   - Motivated Behavior 4 credits
   - Phenomenological Psychology 4 credits
   - Cognitive Psychology 4 credits
   - Experimental Psychology:
   - Cognition and Perception 6 credits
   - Psychological Tests and Measurements 4 credits
   - Experimental Psychology:
   - Learning and Behavior 6 credits
   - Experimental Psychology:
   - Social and Personality 6 credits
   - Experimental Psychology: Child Development 6 credits

2. PSY 202 Psychopathology 4 credits
   - Social Psychology 4 credits
   - Theories of Personality 4 credits
   - Developmental Psychology 4 credits
   - History and Systems of Psychology 4 credits

3. An additional course from one of the groups above. 4 credits

   Students who take Experimental Psychology PSY 330 or PSY 333 or PSY 334 or PSY 335 are exempt from the requirement to take a course in this category.

4. An additional course in psychology at or above the 200 level. 4-5 credits

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)

**PSY 103** Stress 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 scientific insights, practical stress management skills, and beneficial relaxation techniques are offered.

**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, experimental, 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.

Prerequisites: PSY 100 and successful completion of the CUNY Mathematics Assessment Test

Majors should take the course within their first 12 credits in psychology.

**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)

Prerequisites: PSY 100, ENG 111, COR 100

**PSY 211** Methods of Applied Behavioral Analysis
4 hours; 4 credits
Introduction to applied behavioral methods for persons with developmental disabilities including: defining and measuring behavior, treatment program development and evaluation, behavior modification methods, behaviorally based teaching methods, and special applications such as token economies, self-management, professional responsibility, and ethics. An analysis of behavior will be undertaken through the use of pre-recorded videotapes. (non-liberal arts)

Pre- or corequisites: SWK 107 and successful completion of 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. Prerequisite: PSY 100

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. (p&d) (cont. wld.)
Prerequisite: PSY 100, ENG 151, COR 100

PSY 214 Psychology of Advertising
4 hours; 4 credits
How and why advertising influences behavior. Contemporary examples of magazine, television, and radio advertising are analyzed according to their application of basic principles of motivation, perception, learning, memory, personality, and social psychology, with the major focus on motivational concepts.
Prerequisite: PSY 100 and ENG 151 and COR 100

PSY 215 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. (p&d)
Prerequisites: PSY 100 and ENG 111

PSY 216 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 220 Motivation
4 hours; 4 credits
A consideration of theory and research in human motivation from various points of view including those of learning theory, psychoanalysis, and biology. The course will discuss conscious and unconscious processes in motivation as well as concepts related to anxiety, curiosity, and the needs for achievement, affiliation, and power.
Prerequisite: PSY 100

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 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)
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 WMS 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. (p&d)

PSY 236 Biological Origins of Behavior
4 hours; 4 credits
A survey of the biological origins of diverse areas of behavior. While focusing primarily on human behavior, the course will also discuss relevant examples of behavior in animals and continuities between humans and animals. Topics will include areas such as the evolution of behavior, methods of comparative psychology and ethology, critical periods, imprinting, aggressive behavior, social behavior, language, sexual behavior, personality, biological rhythms, certain forms of psychopathology, and nutritional factors in behavior.
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 during childhood, adolescence, young adulthood, middle age, and old age. The emphasis will be placed on developmental tasks as distinguishing features of successive life stages. Patterns of intellectual growth, psychological growth under different social-cultural conditions, personality, and social development will be considered. (social science)
Prerequisites: PSY 100, ENG 111, COR 100
PSY 246  The Atypical Child  
4 hours; 4 credits  
An investigation into deviatory of personality development, thinking, learning, perception, and behavior of children. Major child psychology theories and aberrations in growth processes will be explored.  
Prerequisite: PSY 100

PSY 254  Phenomenological Psychology  
4 hours; 4 credits  
A study of the phenomenological research method, the descriptive analysis of human behavior. The course explores such topics as moral and aesthetic values, creativity, love, freedom, insight, and various states of consciousness.  
Prerequisite: PSY 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: PSY 201; and MTH 113 or any MTH course that satisfies the general education requirement

PSY 268  Psychology of Women  
(Also WMS 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. (p&d)  
Prerequisite: PSY 100

PSY 272  Parapsychology  
4 hours; 4 credits  
An exploration of phenomena traditionally considered impossible. Parapsychology, which includes the study of telepathy, clairvoyance, precognition, and psychokinesis, will be examined from a historical, scientific, and theoretical perspective. The philosophical implications will also be discussed.  
Prerequisite: PSY 100

PSY 280  Psychological Perspectives on 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: PSY 100

PSY 286  Psychology of Creativity  
4 hours; 4 credits  
Theory and research concerning the identification, measurement, development, and appreciation of creativity. Cognitive processes underlying creativity are discussed and possible physiological components in creativity are explored. Analysis of selected works of music, literature, art, and/or scientific problem solving illustrate basic concepts.  
Prerequisite: 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. You 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 how to develop your critical thinking skills. Your readings, writing assignments and tests all reflect these objectives. (social science)  
Prerequisite: ENG 111 and COR 100

PSY 290  Psychology of Death and Dying  
4 hours; 4 credits  
An exploration of the emotional, social, medical, and religious aspects of facing death. Personal attitudes toward living and dying will be examined with a view to providing a better understanding of the dynamics of death, dying, suicide, separation, mourning, and grief.  
Prerequisites: PSY 100 and permission of the instructor

PSY 302  Advanced Psychopathology  
4 hours; 4 credits  
An exploration in depth of behavior disorders due to paranoia, schizophrenia, and manic-depressive psychoses as well as organic dysfunctions. Current research is investigated. Differential diagnostic procedures and case studies are examined.  
Prerequisite: PSY 202

PSY 318  The Child in Community Fieldwork  
4 hours; 4 credits  
One aim of the course is to teach students to analyze the preventive and rehabilitative efforts of social agencies serving children and youth. Another is to help students develop and refine psychological skills that foster the growth of children and youth within social agencies. These aims are implemented through supervised fieldwork in various social agencies.  
Prerequisites: PSY 242 and permission of the instructor

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 202

PSY 330  Experimental Psychology: Cognition and Perception  
4 class hours, 4 laboratory hours; 6 credits  
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.  
Prerequisite: PSY 266 or permission of the instructor
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 or permission of the instructor

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: PSY 266 or permission of the instructor

PSY 334  Experimental Psychology: Social and Personality  
4 class hours, 4 laboratory hours; 6 credits  
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 266, PSY 226 or PSY 212

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.

PSY 340  Mentoring and Adolescent Development  
(Also WMS 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. 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

PSY 342  Research in Child 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 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: At least 12 credits of psychology courses numbered 200 or higher

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 366  Psychology of Dreams  
4 hours; 4 credits  
A review of theories of dream interpretation within the context of the recent data collected in sleep and dream laboratories. Major theories will be compared and contrasted. Basic physiological correlates of dreaming will be discussed and empirical findings of content analysis presented. The structure and function of dreams will be compared to the structure and function of hallucinations, myths, and fairy tales. 
Prerequisites: ENG 151; and 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 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; and permission of the instructor
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; or permission of the instructor

PUBLIC ADMINISTRATION
(Minor)
Interdisciplinary Program
Coordinators: Associate Professor Thomas Bucaro, Assistant Professor
Richard Flanagan, Associate Professor Vasilios Petratos
Students in any major may minor in Public Administration.

Minor Requirements: 15-16 credits
Required courses
POL/  MGT 223  Public Administration  4 credits
SOC 274  Social Welfare  4 credits
(SOC 370 Urban Sociology [4 crs.] 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 292  Urban Economics  4 credits
ECO 330  Public Finance  4 credits
ECO 338  Government and Business  4 credits
Management
MGT 320  Management of Organizational Behavior  4 credits
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  3 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)

ROMANCE LANGUAGES
Department of Modern Languages
Chair: Professor Kathryn Talarico, English, Speech, and World
Literature/Modern Languages Building (2S), Room 109
The College offers a major in Spanish leading to the BA degree and a major
in Spanish with an Adolescence Education sequence. Courses in French and
Italian are available, but advanced work must be completed through
independent study or at other institutions.
All students with prior knowledge or training must take the
placement examination before registering for language courses. (See
Foreign Language Requirement.)
Students with some native ability in a foreign language taught at
the College are not eligible for credits for the 101, 102, 113 and 114 levels
of that language. These students should begin their language study at the
115 or 116 level, if Spanish natives, and at the 208 level or higher in other
languages. Students who are totally bilingual and who speak, read, and
write a second language well, may register for any 300- or 400-level courses
in that language. Students who have successfully completed a 200-, 300-
or 400-level course in a foreign language may not take a 100-level course in
the same language for credit. Students should consult an adviser in the
Department of Modern Languages.
For course descriptions, please refer to sections on French, Italian,
and Spanish.

SCIENCE COURSE
Department of Engineering Science and Physics

SCI 106  Power, Pollution, and Energy
3 class hours, 2 laboratory hours; 4 credits
Topics include the effects of radioactivity, noise, heat, and various forms
of energy on the environment. The physical principles will be developed to
understand these phenomena and the scope of the related environmental
problem. Laboratory studies and student projects illustrative of the
fundamental principles associated with power, pollution, and energy
complement the lectures. Not intended for the Physical Science or
engineering major. (science)
Prerequisite: MTH 025 or MTH 030 or an appropriate score on the CUNY
Mathematics Assessment Test
SCIENCE, LETTERS, AND SOCIETY

(Bachelor of Arts)

Interdisciplinary Program

Coordinator: Assistant Professor Katherine Goodland; Science, Letters, and Society Office, History/Political Science, Economics, and Philosophy Building (2N), Room 218

Liaison with Department of Education, Associate Professor Deborah DeSimone, Education Building (3S), Room 224

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 humanities, social sciences, mathematics, and science. The development of high levels of competence in reading and writing is particularly emphasized.

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 adviser from the appropriate program in the Department 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 chairperson, Department of Education, Building 3S, Room 208.

For admission to and continuation in the major of Science, Letters, and Society, a minimum GPA of 2.75 is required.

General Education Requirements for the BA

ENG 111, ENG 151, COR 100, PED 190: 12 credits

Whenever possible, these four courses should be completed within the first 36 credits.

Scientific Analysis; Social Scientific Analysis; The Contemporary World; Textual, Aesthetic, and Linguistic Analysis; Pluralism and Diversity requirements: 28-47 credits

Whenever possible, these courses should be completed within the first 60 credits.

1. Scientific Analysis: (11 credits)
   a. Science and Technology: (8 credits)
   b. Mathematics: (3 credits)

2. Social Scientific Analysis: (7-8 credits)
   A course in American history: HST 244 United States History: 1607-1865 or HST 245 United States History: 1865-Present is required for SLS majors in fulfilling this requirement.

3. The Contemporary World: (4 credits)

4. Textual, Aesthetic, and Linguistic Analysis: (6-8 credits)
   a. Literature: 200-level
   b. Arts and Communications: 100-level

   Arts and Communications: 200-level

5. Pluralism and Diversity Requirement: (0-4 credits)

6. Foreign Language: (0-12 credits)

See section on general education requirements for approved course lists and complete details.

Major Requirements: 34-36 credits

Natural Sciences and Mathematics:

Twelve credits in mathematics and the natural sciences chosen from:

SLS 217 Fundamentals of Mathematics I
SLS 218 Fundamentals of Mathematics II
SLS 261 Nature of Physical Processes

Humanities:

Twelve 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:

Twelve credits in the social sciences chosen from:

SLS 225 Social Thought
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

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.

Electives: 25-46 credits

(including credits in education courses)

Total Credits Required: 120

Courses

SLS 217 Fundamentals of Mathematics I
(Also MTH 217)
4 hours; 4 credits

A study of the basic elements of mathematical thought especially designed for students seeking certification as elementary school teachers. Topics include problem solving techniques, set theory, mathematical logic, number systems and their properties, numeration systems, and algorithms. Prerequisites: A minimum GPA of 2.75 and MTH 030 or permission of the Department of Mathematics or an appropriate score on the CUNY Mathematics Placement Test, and a 100-level mathematics general education course.

SLS 218 Fundamentals of Mathematics II
(Also MTH 218)
4 hours; 4 credits

A continuation of MTH 217. Linear inequalities and linear programming, Euclidian and non-Euclidian geometries, probability, statistics. Prerequisites: A minimum GPA of 2.75 and MTH 217.

SLS 225 Social Thought
(Also SOC 225)
4 hours; 4 credits

An introduction to the thought of key figures in the social sciences in developing the idea of society from classical Greece to modern times, and dealing with the emergence of notions of community, the state, secularism, toleration, individualism, liberty, egalitarianism, irrationalism, etc. (social science) Prerequisites: A minimum GPA of 2.75, ENG 111, ENG 151, COR 100.
SLS 230  American Society
4 hours; 4 credits
An introduction to the forces that have shaped American society. Emphasis is placed on the interaction of political, economic, and cultural factors. Themes include the creation of American myths, the triumph of majority traditions, the American heritage of dissent, and the responses to social crises. (social science)
Prerequisites: A minimum GPA of 2.75, ENG 111, ENG 151, COR 100

SLS 235  The American Political System
(Also POL 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 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.
Prerequisites: A minimum GPA of 2.75, 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. (p&d)
Prerequisites: A minimum GPA of 2.75, 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. (p&d)
Prerequisites: A minimum GPA of 2.75, 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 ability to read, understand, and think critically about writings in the social sciences. (social science)
Prerequisites: A minimum GPA of 2.75, 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.
Prerequisites: A minimum GPA of 2.75, 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 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 2.75, 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 2.75, ENG 111 and 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 2.75, ENG 111 and ENG 151 and an ENH 200-level course
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 Arts)  
Department of Sociology, Anthropology, and Social Work  
Coordinator, Associate Professor Sondra Brandler, Psychology/Sociology, Anthropology, and Social Work Building (4S), Room 226  
The curriculum of the Bachelor of Arts in Social Work, also called the BASW, is designed to prepare students for social work practice as generalists and for advanced study in graduate schools of social work. The BASW 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, developmental disabilities, services to the elderly, urban development, health and medical care.

Social Work (BA)  
Admission and Retention Requirements  
Students should apply during their upper sophomore year and must have completed 40 credits before applying to the program. Entering students are required to have attained a 2.5 grade point average and to maintain at least a 2.5 GPA to continue in the program. 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.

Please consult the program coordinator about admission procedures.

General Education Requirements for the BA  
ENG 111, ENG 151, COR 100, PED 190: 12 credits  
Whenever possible, these four courses should be completed within the first 36 credits.

Scientific Analysis; Social Scientific Analysis; The Contemporary World; Textual, Aesthetic, and Linguistic Analysis; Pluralism and Diversity requirements: 28-47 credits  
Whenever possible, these courses should be completed within the first 60 credits.

1. Scientific Analysis: (11 credits)  
   a. Science and Technology: (8 credits)  
   b. Mathematics: (3 credits)  
2. Social Scientific Analysis: (7-8 credits)  
3. The Contemporary World: (4 credits)  
4. Textual, Aesthetic, and Linguistic Analysis: (6-8 credits)  
   a. Literature: 200-level  
   b. Arts and Communications: 100-level  
      Arts and Communications: 200-level  
5. Pluralism and Diversity Requirement: (0-4 credits)  
6. Foreign Language: (0-12 credits)  
See section on general education requirements for approved course lists and complete details.

Pre-Major Requirement: 14 credits  
SWK 200  Introduction to Social Work  4 credits  
BIO 105  Principles of Biology I  3 credits  
BIO 107  Principles of Biology I Laboratory  1 credit  
BIO 170  General Biology I  3 credits  
BIO 171  General Biology I Laboratory  1 credit  
PSY 100  Psychology  3 credits  
SOC 100  Sociology  3 credits

Professional Foundation Content Requirements: 40 credits  
SWK 301  Social Work Practice Research  4 credits  
SWK 274  Social Welfare  4 credits  
SWK 378  Social Policy and Planning  4 credits  
SWK 310  Human Behavior and Social Environment I  4 credits  
SWK 320  Human Behavior and Social Environment II  4 credits  
SWK 350  Social Work Methods I  4 credits  
SWK 360  Social Work Methods II  4 credits  
SWK 451  Field Instruction I  6 credits  
SWK 461  Field Instruction II  6 credits

Required Courses: 20 credits  
SOC 200  Sociological Theory  4 credits  
SOC 370  Urban Sociology  4 credits  
ANT 370  Urban Anthropology  4 credits

Soc 240  Minority Groups  4 credits  
Soc 260  Class, Status, and Power  4 credits

SOC 340  Ethnicity and Immigration  4 credits

PSY 202  Psychopathology  4 credits  
POL 204  American Political and Legal Thought  4 credits

Electives: 0-13 credits  
Total credits required: 120

Field Work  
Field work courses are included in the Professional Foundation Content Requirement. Field work is designed to facilitate the integration of theoretical knowledge and professional skills. Students are placed in health, education, and social service agencies on Staten Island and in other boroughs for two semesters during their senior year. Under the supervision of professional social workers, students work with individuals, families, groups, and communities. Students are evaluated by the agency supervisor at the end of each semester. Students participate in the evaluation process and sign the evaluation forms.
Courses

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
4 hours; 4 credits
Introduction to the field of social work and the social welfare system of the United States. Topics will include the development and sociology of the profession, theoretical foundations and current methods of practice, exploration of the diverse fields of practice, and the agencies that provide services to individuals, families, groups, and communities. The course will also explore the role and function of social workers in the face of expanding concepts of need and a changing political, social, and economic environment. Cross-cultural, feminist, and radical perspectives will also be examined.
Pre- or corequisites: ENG 111, SOC 100

SWK 274  Social Welfare
(Also SOC 274)
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)
Prerequisite: ENG 111, COR 100, SOC 100

SWK 301  Social Work Research
4 hours; 4 credits
Advanced social and behavioral science methods as they are applied to research in generalist practice. Examination of qualitative and quantitative approaches. Important research paradigms, models, and issues of data collection and analysis. Procedures and techniques instrumental for the advancement of professional practice. Students carry out a research design of their own and collect data for analysis.
Prerequisite: SOC 201

SWK 310  Human Behavior in the Social Environment I
4 hours; 4 credits
The influence of biological, psychological, and social contexts of individual experience on human development in the period from infancy through adolescence and young adulthood. Exploration of how individuals and families cope with difficulties such as mental illness, alcoholism, poverty, drug abuse, crime, and family strife, and of the influences of racism, classism, and discrimination of all kinds on human development.
Prerequisites: SWK 200, PSY 100

SWK 320  Human Behavior in the Social Environment II
4 hours; 4 credits
The influence of biological, psychological, and social contexts of individual experience on human development in the period from young adulthood through old age. Emphasis on the role of gender biases, social stigmas, and ageism in the achievement of full potential and economic self-sufficiency.
Prerequisite: SWK 310

SWK 350  Social Work Methods I
4 hours; 4 credits
This course provides an introduction to the basic theory and methods of social work practice with individuals, families, organizations, and communities and an overview of the generalist approach to social work practice. The generalist approach is linked to system theory, ecological theory, and problem solving approaches to social work practice. Interviewing skills are studied and case studies are reviewed to identify and develop social work processes and skills within the framework of an ecological model.
Prerequisites: SWK 200 and admission to the BA degree program in Social Work.

SWK 360  Social Work Methods II
4 hours; 4 credits
This course builds on the generalist approach introduced in Social Work Methods I with an emphasis on the study of generalist skills as applied to small and large groups, communities, and organizations. The interaction of individual change, group processes, and community dynamics are demonstrated through case materials, role playing, and class projects.
Prerequisite: SWK 350

SWK 378  Social Planning
(Also SOC 378)
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, affirmative action. Cross-cultural models of social planning and the planning process.
Prerequisite: SOC 274

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 451  Field Instruction I
2 class hours, 16 field hours; 6 credits
This course provides students with experience in applying knowledge and theory from the professional foundation and developing practice skills. The practicum assists in producing a reflective, self-evaluating, beginning-level professional practitioner. Students are required to work at an approved agency under the supervision of an agency-based supervisor for a total of 240 hours a semester (an average of 16 hours per week). Weekly class seminars are structured to provide support and the exploration of the agency learning experience with other students.
Prerequisite: SWK 360 or permission of the instructor

SWK 461  Field Instruction II
2 class hours, 16 field hours; 6 credits
Continuation in the participation of the delivery of social work services. Students are required to work at an approved agency under the supervision of an agency-based supervisor for a total of 240 hours a semester (an average of 16 hours per week). Weekly class seminars are structured to provide support and the exploration of the agency learning experience with other students.
Prerequisite: SWK 451
SOCIOMETRY-ANTHROPOLOGY
(Bachelor of Arts, Minor)
Department of Sociology, Anthropology, and Social Work
Chair: Professor Jacqueline LeBlanc, Psychology/Sociology, Anthropology, and Social Work Building (4S), Room 223
The joint major in Sociology-Anthropology offers several options: most of the 35-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)

General Education Requirements for the BA
ENG 111, ENG 151, COR 100, PED 190: 12 credits
Whenever possible, these four courses should be completed within the first 36 credits.

Scientific Analysis; Social Scientific Analysis; The Contemporary World; Textual, Aesthetic, and Linguistic Analysis; Pluralism and Diversity requirements: 28-47 credits
Whenever possible, these courses should be completed within the first 60 credits.
1. Scientific Analysis: (11 credits)
   a. Science and Technology: (8 credits)
   b. Mathematics: (3 credits)
2. Social Scientific Analysis: (7-8 credits)
3. The Contemporary World: (4 credits)
4. Textual, Aesthetic, and Linguistic Analysis: (6-8 credits)
   a. Literature: 200-level
   b. Arts and Communications: 100-level
   Arts and Communications: 200-level
5. Pluralism and Diversity Requirement: (0-4 credits)
6. Foreign Language: (0-12 credits)
See section on general education requirements for approved course lists and complete details.

Major Requirements: 35 credits
SOC 100 Sociology 3 credits
SOC 200 Sociological Theory 4 credits
SOC 201 Methods of Sociological Research 4 credits
ANT 201 Cultural Anthropology 4 credits
Any additional four-credit anthropology course at or above the 200 level, included among at least 16 additional credits in sociology or anthropology at the 200 level or above, of which 12 credits must be at the 300 or 400 level. The 35 credits must include at least 12 credits at the 300 or 400 level.

Electives: 26-45 credits
Total Credits Required: 120

Honors
To graduate with Honors in Sociology/Anthropology a student must have a 3.5 grade point average in sociology/anthropology courses and must complete an Honors thesis or project under the supervision of a sociology or anthropology faculty member.

Minor
Prerequisite Course
SOC 100 Sociology 3 credits
Requirements
SOC 200 Sociological Theory 4 credits
SOC 201 Methods of Sociological Research 4 credits
Eight additional credits of courses in sociology at or above the 200 level 8 credits

Courses
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, and the processes by which institutions come into being and develop, and important social theories. (social science)

SOC 120 Social Problems 3 hours; 3 credits
Conditions defined by socio-cultural 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)

SOC 200 Sociological Theory 4 hours; 4 credits
Nineteenth- and early 20th-century European sociological theory as it bears on our own time. How Marx, Weber, and Durkheim analyze society, culture, religion, the economy, modes of domination, suicide, alienation, charisma, and other social phenomena. Cultural and gender biases in social thought. Prerequisites: SOC 100 and one 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
Majors are advised to take this course within the first 15 credits of sociology/anthropology.

SOC 202 Gender, Race, Ethnicity, and Class 4 hours; 4 credits
(Also WMS 202)
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) 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) Prerequisites: ENG 111, COR 100, SOC 100

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) Prerequisites: ENG 111, COR 100

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) Prerequisites: ENG 111, COR 100

SOC 225  Social Thought
(Also SLS 225)
4 hours; 4 credits
An introduction to the thought of key figures in the social sciences in developing the idea of society from classical Greece to modern times, and dealing with the emergence of notions of community, the state, secularism, toleration, individualism, liberty, egalitarianism, irrationalism, etc. (social science) Prerequisites: A minimum GPA of 2.75; ENG 111, ENG 151, COR 100

SOC 226  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) Prerequisites: ENG 111, COR 100; SOC 100 or PSY 100 or permission of the instructor

SOC 230  Sociology of Women
(Also WMS 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) Prerequisites: ENG 111, COR 100

SOC 232  Sociology of Aging
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) Prerequisites: ENG 111, COR 100; and SOC 100 or permission of the instructor

SOC 238  Sociology of Men
(Also WMS 238)
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) Prerequisites: ENG 111, COR 100

SOC 240  Minority Groups
4 hours; 4 credits
Social, political, economic, and historical factors affecting minority group status. The roots of prejudice and discrimination; analysis of their psychological and social causes and consequences in modern society. (p&d) Prerequisites: ENG 111, COR 100

SOC 245  Contemporary Social Issues
(Also SLS 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 ability to read, understand, and think critically about writings in the social sciences. (social science) Prerequisites: A minimum GPA of 2.75; ENG 111, ENG 151, COR 100

SOC 250  Sociology of Religion
4 hours; 4 credits
The relationship between religion and society from historical and cross-cultural perspectives. Effects of religion on the culture of groups and societies. The effects of social structure and social change on religion; emergence of new religious forms. (social science) Prerequisites: ENG 111, COR 100, SOC 100

SOC 255  Sociology of the Arts
4 hours; 4 credits
The relationship between the arts and other institutions of contemporary society (e.g., economics, politics, religion). The structure of different art worlds, and the function of both High and Popular art forms in both strengthening and weakening class boundaries. (social science) Prerequisites: ENG 111, COR 100; and SOC 100 or permission of the instructor

SOC 260  Class, Status, and Power
4 hours; 4 credits
Historical and comparative analysis of social classes and strata—their emergence, persistence, and change—in different types of societies. The effects of class, status, and power on the quality of life and social relations. Recent changes in class structure. (p&d) (social science) Prerequisites: ENG 111, COR 100, SOC 100
SOC 270  The Community
4 hours; 4 credits
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 SOC 100 or permission of the instructor

SOC 274  Social Welfare
(Also SWK 274)
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, SOC 100

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)
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)
Prerequisites: ENG 111, COR 100, SOC 100

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)
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, ethnomet hodology, world-systems theory, and historical-comparative theory. Underlying assumptions and cultural biases in social thought.
Prerequisite: SOC 200

SOC 330  Women and Work
(Also WMS 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. (p&d)
Prerequisites: Any 100-level SOC or ANT course and any 200-level SOC or ANT course or permission of the instructor.

SOC 340  Ethnicity and Immigration
4 hours; 4 credits
Social, cultural, and historical factors affecting ethnic group experience and socio-economic 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. (p&d)
Prerequisites: ANT or SOC 100 and a 200-level ANT or SOC course or permission of the instructor

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. (p&d)
Prerequisites: SWK 107 and SOC 100

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 or SOC 100 and a 200-level ANT or SOC course or permission of the instructor.

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 or SOC 100 and a 200-level ANT or SOC course or permission of the instructor.

SOC 371  Minorities and the Media
(Also COM 371)
4 hours; 4 credits
This course will examine the role of the mass media as cultural institutions in shaping the images and self-images of different minority groups. Definitions and images to be analyzed are drawn from religious, medical, and social scientific sources, as well as elite and popular culture. (p&d)
Prerequisite: 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 American society. The role of racism, sexism, violence, and economic exploitation as forms of social control. Existing patterns of domination and subordination.
Prerequisites: ANT or SOC 100 and a 200-level ANT or SOC course or permission of the instructor
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 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 or SOC 100 and a 200-level ANT or SOC course or permission of the instructor

SOC 378  Social Planning  
(Also SWK 378)  
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 or SOC 100 and a 200-level ANT or SOC course or permission of the instructor

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 or permission of the instructor

SOC 420  Birth and Death  
(Also WMS 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: ANT 100 or SOC 100 and a 200-level ANT or SOC course or permission of the instructor

SOC 427  Sociology of Language  
(Also ENL 427)  
4 hours; 4 credits  
Areas of discussion include language and class, language and sex, language and race, and language and ethnicity.  
Prerequisite: ENG 151

SPANISH

(Bachelor of Arts, Minor)  
Department of Modern Languages  
Chair: Professor Kathryn Talarico, English, Speech, and World Literature/Modern Languages Building (2S), Room 109  
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. Students interested in Early Childhood or Childhood Education should see the Department of Education Coordinator of these programs for permission to enroll in this major.  
Transfer students must take at least four courses at the 300 or 400 level

Spanish (BA)  
General Education Requirements for the BA  
ENG 111, ENG 151, COR 100, PED 190: 12 credits  
Whenever possible, these four courses should be completed within the first 36 credits.

Scientific Analysis; Social Scientific Analysis; The Contemporary World; Textual, Aesthetic, and Linguistic Analysis; Pluralism and Diversity requirements: 28-47 credits  
Whenever possible, these courses should be completed within the first 60 credits.  
1. Scientific Analysis: (11 credits)  
a. Science and Technology: (8 credits)  
b. Mathematics: (3 credits)  
2. Social Scientific Analysis: (7-8 credits)  
3. The Contemporary World: (4 credits)  
4. Textual, Aesthetic, and Linguistic Analysis: (6-8 credits)  
a. Literature: 200-level  
b. Arts and Communications: 100-level  
   Arts and Communications: 200-level  
5. Pluralism and Diversity Requirement: (0-4 credits)  
6. Foreign Language: (0-12 credits)  
See section on general education requirements for approved course lists and complete details.

1. Track One: Spanish:  
Pre-Major Requirements: 14 credits  
Four semesters of college-level language study (SPN 113, SPN 114, SPN 213, SPN 215) or the equivalent. 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 (SPN 313) 4 credits  
A civilization course (SPN 320, 325, 330) 4 credits  
A literature survey course (SPN 340, 350) 4 credits  
An additional 24 credits of courses chosen from 300- or 400-level Spanish courses 24 credits

Electives: 9-40 credits  
Total Credits Required: 120
2. Track Two: 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 for 24 credits:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</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 305</td>
<td>The Teaching of Secondary School Curriculum</td>
<td>4</td>
</tr>
<tr>
<td>EDS 307</td>
<td>Discovery Learning and Interdisciplinary Instruction</td>
<td>4</td>
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<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>

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.

Minor
At least 12 credits in courses in Spanish at or above the 200 level.

Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>SPN 101</td>
<td>Spanish Conversation I</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Practical Spanish for business, community relations, travel, and simple technical application. For beginners with no previous knowledge of the language. Regular attendance in the Modern Languages Media Center is required.</td>
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<tr>
<td>SPN 102</td>
<td>Spanish Conversation II</td>
<td>2</td>
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<tr>
<td></td>
<td>A continuation of SPN 101. Regular attendance in the Modern Languages Media Center is required.</td>
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<tr>
<td></td>
<td>Prerequisite: SPN 101 or equivalent</td>
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<tr>
<td>SPN 113</td>
<td>Basic Spanish I (Closed to Native Speakers)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>A beginning course in 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.</td>
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<tr>
<td></td>
<td>Prerequisite: Passing the CUNY/ACT Reading and Writing tests; Closed to Native Speakers</td>
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</tr>
<tr>
<td>SPN 114</td>
<td>Basic Spanish II</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>A continuation of SPN 113. Regular attendance in the Modern Languages Media Center is required.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Prerequisite: SPN 113 or equivalent</td>
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</tr>
<tr>
<td></td>
<td>Passing the CUNY/ACT Reading and Writing tests; Closed to Native Speakers</td>
<td></td>
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</tbody>
</table>

SPN 115     | Basic Spanish I for Native Speakers               | 4       |
|             | A beginning course in the fundamentals of expression and communication for those who have a speaking knowledge of Spanish but have little or no formal training in the language. Regular attendance in the Modern Languages Media Center is required. |         |

SPN 116     | Basic Spanish II for Native Speakers              | 4       |
|             | A continuation of SPN 115. Regular attendance in the Modern Languages Media Center is required. |         |
|             | Prerequisite: SPN 115 or equivalent              |         |

SPN 117     | Spanish for Allied Health Personnel               | 3       |
|             | Basic communication for physicians, nurses, and others dealing with Spanish-speaking clients. Emphasis on technical and medical terminology. Regular attendance in the Modern Languages Media Center is required. |         |
|             | Prerequisites: SPN 113 or SPN 101 and 102 or equivalent preparation in Spanish |         |

SPN 213     | Continuing Spanish I                              | 4       |
|             | 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 Modern Languages Media Center is required. (foreign lang.) |         |
|             | Prerequisite: SPN 114 or equivalent              |         |

SPN 215     | Continuing Spanish II                             | 4       |
|             | 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 Modern Languages Media Center is required. (foreign lang.) |         |
|             | Prerequisite: SPN 213 or equivalent              |         |

SPN 313     | Advanced Communication Skills                     | 4       |
|             | 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 Modern Languages Media Center is required. |         |
|             | Prerequisite: SPN 215 or equivalent              |         |

SPN 315     | Advanced Composition                              | 4       |
|             | 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 Modern Languages Media Center is required. |         |
|             | Prerequisite: SPN 313 or equivalent              |         |

SPN 319     | Introduction to Translation                       | 4       |
|             | 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 EN 151 or EN 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.
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. (p&d)
Prerequisite: SPN 313 or equivalent

SPN 330  The Civilization of Spanish America
4 hours; 4 credits
A panoramic approach to the history, art, literature, and other aspects of the civilization of Spanish America. (p&d)
Prerequisite: SPN 313 or equivalent

SPN 340  An Introduction to the Literature of Spain
4 hours; 4 credits
A survey of Spanish literature from medieval times through the Romantic period. (literature)
Prerequisite: SPN 313 or equivalent

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)
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

SPN 350  Introduction to Spanish American Literature
4 hours; 4 credits
A survey of the development of Spanish American literature from pre-Colombian literature to modernism. (literature) (p&d)
Prerequisite: SPN 313 or equivalent

SPN 352  Studies in Spanish American Literature and Culture I
4 hours; 4 credits
Intensive study of selected topics in Spanish American literature and culture. The specific emphasis will vary from semester to semester and will be announced in the Schedule of Classes.
Prerequisite: SPN 313

SPN 359  Studies in Peninsular Spanish Literature and Culture I
4 hours; 4 credits
Intensive study of selected topics in Peninsular Spanish literature and culture. The specific emphasis will vary from semester to semester and will be announced in the Schedule of Classes.
Prerequisite: SPN 313

SPN 425  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 others. (literature)
Prerequisite: SPN 313 or equivalent

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)
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)
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 and will be announced in the schedule of classes.
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)
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 and will be announced in the Schedule of Classes.
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, Guillén, Cernuda, and Salinas will be considered. (literature)
Prerequisite: SPN 313 or equivalent

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, Milhura, Buero Vallejo, Alfonso Sastre, Carlos Muniz, Lauro Olmo, Arrabal, Antonio Gala, and others. (literature)
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)
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)  
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. (literature)  
Prerequisite: SPN 313 or equivalent

STUDENT SERVICES COURSES
Department of Student Services  
Chair: Vice President Carol Jackson,  
South Administration Building (1A), Room 301

Students who enter the College with fewer than six credits are required to complete 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 or SKO 100.

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 self and the influences of external and internal forces on it. Strategies for coping with life's challenges will be discussed and explored.

WOMEN'S STUDIES
(Bachelor of Arts, Minor)  
Interdisciplinary Program  
Coordinator, Associate Professor Kate Crehan, Psychology/Sociology, Anthropology, and Social Work Building (4S), Room 213; Women's Studies Program Office, History/Political Science, Economics, and Philosophy Building (2N), Room 216

Women's studies is an interdisciplinary program that draws on anthropological, 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 Studies (BA)  
General Education Requirements for the BA  
ENG 111, ENG 151, COR 100, PED 190: 12 credits  
Whenever possible, these four courses should be completed within the first 36 credits.

Scientific Analysis; Social Scientific Analysis; The Contemporary World; Textual, Aesthetic, and Linguistic Analysis; Pluralism and Diversity requirements: 28-47 credits  
Whenever possible, these courses should be completed within the first 60 credits.  

1. Scientific Analysis: (11 credits)  
   a. Science and Technology: (8 credits)  
   b. Mathematics: (3 credits)

2. Social Scientific Analysis: (7-8 credits)

3. The Contemporary World: (4 credits)

4. Textual, Aesthetic, and Linguistic Analysis: (6-8 credits)  
   a. Literature: 200-level  
   b. Arts and Communications: 100-level  
   Arts and Communications: 200-level

5. Pluralism and Diversity Requirement: (0-4 credits)

6. Foreign Language: (0-12 credits)

See section on general education requirements for approved course lists and complete details.

Major Requirements: 31-32 credits  
31-32 credits of Women's Studies courses, with at least 12 credits at the 300 level or higher, including:  

1. At least one WMS course with a focus in history, American studies, or African American studies from among the following:  
   WMS 217 Introduction to Women's History  
   WMS 286 History of American Women  
   WMS 386 The Recovery of Women's Past  
   WMS 389 Themes in American Women's History

2. At least one WMS course with a focus in English, modern languages, or arts from among the following:  
   WMS 222 Women and Literature  
   WMS 256 Women in European Literature  
   WMS 263 Mythology of Women  
   WMS 266 Women in European Literature to the Renaissance  
   WMS 267 Women in European Literature after the Renaissance  
   WMS 270 Women and the Fine Arts  
   WMS 280 Introduction to Women's Written Expression
Graduating Women’s Studies majors may apply for graduation with Honors Honors

Total Credits Required: 120

Electives: 29–49 credits

Honors
Graduating Women’s Studies majors may apply for graduation with Honors in Women’s Studies. To graduate with Honors a student must have:

1. Fulfilled the requirements for the Women’s Studies major
2. Earned a 3.5 grade point average or better in women’s studies courses
3. Been recommended for Honors by the Women’s 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 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 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 Studies Honors Committee in the final semester of their junior year. Honors theses for majors graduating in January must be submitted to the Women’s Studies office (2N-216) by November 20; for majors graduating in June or August, thesis must be submitted by April 1.

Courses

WMS 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)

WMS 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)
Prerequisites: ENG 111, COR 100

WMS 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)
Prerequisites: ENG 111, COR 100

WMS 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)
Prerequisites: ENG 111, ENG 151

WMS 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)
Prerequisites: ENG 111, COR 100
WMS 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 transmissible diseases. Present problems and practices as well as future possibilities will be discussed. (p&d)

WMS 238  Sociology of Men  
(Also SOC 238)  
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. (social science) (p&d)  
Prerequisites: ENG 111, COR 100

WMS 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.

WMS 263  Mythology of Women  
(Also ENH 223)  
4 hours; 4 credits  
An analysis of myths that continue to influence the way men look at women and women look at themselves. (literature) (p&d)  
Prerequisites: ENG 111, ENG 151

WMS 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)  
Prerequisites: ENG 111, ENG 151

WMS 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)  
Prerequisites: ENG 111, ENG 151

WMS 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. (p&d)  
Prerequisite: PSY 100

WMS 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.  
Prerequisites: ENG 111, and WMS 100 or ART 100 or 103 or 104 or permission of the instructor

WMS 272  Women as Creative Persons  
4 hours; 4 credits  
Exploration of women’s aesthetic in the visual arts.

WMS 276  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

WMS 280  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)  
Prerequisites: ENG 111, and COR 100 or any college-level history course

WMS 286  Research Problems in Feminism  
4 hours; 4 credits  
Review of current feminist research emphasizing specific problems. Students will complete original research projects.

WMS 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.

WMS 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. (p&d)  
Prerequisites: Any 100-level sociology or anthropology course and any 200-level sociology or anthropology course or permission of the instructor
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<th>Credits</th>
<th>Description</th>
<th>Prerequisites</th>
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</table>
| WMS 340    | Mentoring and Adolescent Development             | 4       | 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. |
| WMS 348    | Women Novelists                                  | 4       | Significant novels by such women authors as Jane Austen, George Eliot, Elizabeth Gaskell, Willa Cather, Virginia Woolf, Doris Lessing, Jean Rhys. (p&d) Prerequisite: An ENH 200-level course                                                                                                                                   |
| WMS 353    | The Feminist Challenge in French Literature      | 4       | 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) Prerequisite: FRN 313 or equivalent |
| WMS 384    | Major Woman Author I                             | 4       | Intensive study of the works of a major woman author. (p&d) Prerequisite: An ENH 200-level course                                                                                                             |
| WMS 385    | Major Woman Author II                            | 4       | Intensive study of the works of a major woman author. (p&d) Prerequisite: An ENH 200-level course                                                                                                             |
| WMS 386    | The Recovery of Women's Past                     | 4       | 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 the course will examine the past two centuries when women's movements, feminisms, gender analysis, and sexual liberation evolved. (p&d) Prerequisites: Any 200-level history course and ENG 151 |
| WMS 387    | Major Woman Author III                           | 4       | Intensive study of the works of a major woman author. (p&d) Prerequisite: An ENH 200-level course                                                                                                             |
| WMS 389    | Themes in American Women's History               | 4       | 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. (p&d) Prerequisites: Any 200-level history course and ENG 151 |
| WMS 390    | Studies in Women in Literature and the Arts      | 4       | This course examines women's literature, art, and film as shaped by national culture, historical circumstances, class, and age. (p&d) Prerequisite: An ENH 200-level course                                                                                   |
| WMS 391    | Woman as Hero                                    | 4       | Selected readings from Greek drama through current literature, revealing the position and experience of women as heroes. (p&d) Prerequisite: An ENH 200-level course                                                                                                           |
| WMS 420    | Birth and Death                                  | 4       | 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: ANT 100 or SOC 100 and a 200-level ANT or SOC course or permission of the instructor |
| WMS 442    | Women's Written Expression                       | 4       | 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                                                                                       |
RESEARCH INSTITUTES AND CENTERS

Academic research institutes and centers at CSI devoted to research are the Institute for Macromolecular Assemblies, the Center for Developmental Neuroscience and Developmental Disabilities, and the Center for Environmental Science.

Institute for Macromolecular Assemblies
Dr. Ruth Stark, Director
Biological Sciences/Chemical Sciences Building (6S), Room 228

The Institute for Macromolecular Assemblies, established in 2003, builds on the research strength of campus-based faculty in Chemistry, Biology, and allied fields; on the collaborative research alliances the College has made with other institutions; and on our unique laboratory capabilities. The Institute coordinates existing and new research investigations for both natural and engineered macromolecular assemblies of biological and medical importance, and integrates and expands graduate and undergraduate educational programs in these areas across CUNY. The Institute fosters mutually advantageous partnerships with private industry in its biotechnology research and development efforts.

Center for Developmental Neuroscience and Developmental Disabilities
Dr. Ekkehart Trenkner, Managing Director
Office: Biological Sciences/Chemical Sciences Building (6S), Room 320

The Center for Developmental Neuroscience and Developmental Disabilities (CDN) is supported jointly with the New York State Institute for Basic Research (IBR). The Center 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 provides for collaborative efforts between the College and IBR in offering the Master of Science degree in Neuroscience, Developmental Disabilities, and Mental Retardation, as well as with the University’s doctoral programs in Biology, subprogram in Neuroscience and Physiology, and in Psychology, subprogram in Learning Processes. On the CSI campus, the Center has established research laboratories for investigations in cellular and molecular 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 of lung cancer.

Center for the Study of Staten Island: Staten Island Project (SIP)
Dr. Mirella Affron, Director

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 graduate and undergraduate 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 non-partisan stance.
NEW YORK STATE REGISTRATION

The following listing gives the title of each of the undergraduate degree programs of the College and the HEGIS 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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<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
<th>Education</th>
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<tbody>
<tr>
<td>Adler-Schiff, Rebecca</td>
<td>Associate Professor</td>
<td>Department of the Library, BA, Brooklyn College, MA, New York University;</td>
</tr>
<tr>
<td>Ahamed, Syed V.</td>
<td>Professor of Computer Science</td>
<td>Department of Computer Science, BS, University College of England (India);</td>
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<tr>
<td>Ahamed, Comfort</td>
<td>Assistant Professor of Psychology</td>
<td>Department of Psychology, BA, University of Ilorin (Nigeria); MEd, MA, Aunit Peay State University;</td>
</tr>
<tr>
<td>Akhtar, Muhammad</td>
<td>Professor of Education</td>
<td>Department of Education, BA, Framansu University (Syria); MA, EdM, EdD, Teachers College, Columbia University;</td>
</tr>
<tr>
<td>Anderson, Marie</td>
<td>Higher Education Assistant</td>
<td>Department of Education, BS, MA, College of Staten Island; MA, Hunter College; JD, New York Law School;</td>
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<tr>
<td>Antone, Angela</td>
<td>Associate Professor of Management</td>
<td>Department of Political Science, Economics, and Philosophy; BS, St. Xavier's College, University of Calcutta (India); MA, Jamahaurul Nehru University (India); PhD, Boston University;</td>
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<tr>
<td>Armitage, Dender</td>
<td>Higher Education Associate</td>
<td>Department of Chemistry, BS, MS, Jadaprun University (India); PhD, Indian Institute of Science;</td>
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<td>Asanbe, Comfort</td>
<td>Assistant Professor of Psychology</td>
<td>Department of English, Speech, and World Literature; BA, George Washington University; PhD, University of California (Berkely);</td>
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<tr>
<td>Balsamin, Dean</td>
<td>Higher Education Associate</td>
<td>Department of English, Speech, and World Literature; BA, LaSalle College; MA, Duke University; PhD, University of California (Davis);</td>
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<tr>
<td>Baur, William R.</td>
<td>Assistant Professor of Music</td>
<td>Department of Performing and Creative Arts, BS, Empire State College; MS, SUNY, University at Buffalo;</td>
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<td>Bixler, Rima N.</td>
<td>Assistant Professor of Psychology</td>
<td>Department of Psychology, BA, Brooklyn College; MA, PhD, New York University;</td>
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<td>Bologh, Roslyn</td>
<td>Associate Professor of Sociology</td>
<td>Department of Sociology, Anthropology, and Social Work; BA, Hunter College; PhD, CUNY; Graduate Center;</td>
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<td>Bologh, William</td>
<td>Associate Professor of Chemistry</td>
<td>Department of Chemistry, BS, University College of England (India); MS, Indian Institute of Science; PhD, University of Manchester (Engand); MBA, New York University; DSc, University of Manchester;</td>
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<td>Professor of Comparative Literature</td>
<td>Department of English, Speech, and World Literature; BA, Columbia University; MA, Harvard University; PhD, Columbia University;</td>
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<td>Brown, Emmel T.</td>
<td>Chief College Laboratory Technician</td>
<td>Department of Biology, BS, College of Staten Island;</td>
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<td>Professor of Sociology</td>
<td>Department of Modern Languages, BA, MA, PhD, University of Toronto;</td>
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<td>Department of English, Speech, and World Literature; BA, Brooklyn College; MA, City of New York;</td>
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<td>Bucaro, Thomas A.</td>
<td>Coordinator of Evening, Summer, and Weekend Sessions; BA, Catholic University of America; MA, Fordham University; MA, Teachers College, Columbia University;</td>
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<tr>
<td>Bucaro, Thomas A.</td>
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- Department of Business; BS, Moscow Institute of Fine Chemical Technology; MBA, PhD, Ohio University

McCoy, Elena, Associate Professor of Biology
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McFall, Jonathan, Lecturer
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Meher, Edvard, Professor of Psychology
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Nelson, Arthur, Professor of Physical Therapy
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Professors Emeriti and Emeritae

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Philip L. Absworth, Education
John Achosopooulos, Engineering Technology
Eleta Ansell, Spanish
Roslyn Atkinson, Business
Evelyn Barish, English
Howard Baumel, Biology
Reuben Bernardo, Engineering
Joel Berger, Education
Frederick M. Binder, History
Irwin B. Blatt, Student Services
Bernard Blau, English
Ira Blei, Chemistry
Fred Bobensky, Biology
Barry Brossler, Vice President of Academic Affairs
Zelda Brooks, Spanish
Felix Cardenas, Vice President and Provost
Robin Carey, Economics
Martin Chekni, Education
Phyllis Chesler, Psychology
Robert E. Glider, Philosophy
H. John Glab, Biology
Thomson Groll, Education
Dominick Coppola, Library
Claudia Corradini, Italian
Patrick C. Cullen, English
Irma Detch, Psychology
William Demby, Jr., English
Ronald Doll, Education
Walter T. Dorme, Library
Martin Eber, Physics
Herman Ehrlichson, Engineering
Carolyn Faustsclari, Engineering Technology
Koppel C. Friedman, Education
Daniel Fuchs, English
Andrew Fuller, Psychology
Audrey Glynn, Student Services
Philip Goldberg, Mathematics
Joan E. Hartman, English
Howard H. Hauenshost, Chemistry
Marton P. Holt, Spanish
George Jachnowitz, English
Sally Kaminsky, Education
Arthur Kaufman, Vice President of Administration
Diane M. Kelder, Art
Sasha Keskind, Biology
Daniel C. Kramer, Political Science
Leonard Kreisman, Student Services
Martin A. Kuhn, Dean of Faculty
Albert K. Levine, Chemistry
Arthur Levine, Art
Harriet Levine, Nursing
Herbert Lichtenstein, English
Ann M. Mann, Psychology
Edward Margoles, English
Victor Mattfeld, Music
Ann Merlino, Biology
Arthur Minro, English
Thornton Moner, Education
Paul Nace, Biology
Larry D. Nachman, Political Science
John Nankiewl, Engineering Technology
Harvey Natan, Philosophy
Phill Niblock, Multimedia
Peter Ngo, Business
Theresa F. O'Connor, English
George Olan, Chemistry
June Olsen, Nursing
Grace Petrone, Dean of Students
Barbara Pratt, English
Leonard Quart, Cinema Studies
Paragaonl Rames, Engineering
Ronal dra Biech, English
Armando Rico, Spanish
Phyllis Roberts, History
Steven M. Rosen, Psychology
Luciano Russo, Italian
Richard Saur, English
James Sanders, Education
Mortimer Schiff, Creative Writing
Richard Schwartz, Mathematics
Vivian Sessions, Library
David Sereen, Education
Michael F. Staug, English
Max Spalter, English
Robin Spok, Engineering Technology
Judith B. Stelboum, English
Yehuda Tamir, Engineering Technology
Harvey B. Taib, Psychology
Alex Tafuro, Engineering Technology
Edmond L. Volpe, President
Henry Wasser, Dean of Faculty
Nathan Weiner, Engineering Technology
Stamos Zades, Student Services
Steven Zuckermann, Student Services

Associate Professors Emeriti and Emeritae

Leon Ablon, Mathematics
Lynne Belaief, Philosophy
Claude Campbell, English
Ronald Greulich, Education
Jerrold Hirsch, Student Services
Edward C. Johnson, Student Services
Nora M. Kelley, English
Jed Luchow, Education
Peter Massella, Chemistry
Deanna Nasa, Student Services
Albert Porreca, Business
Lawrence Schwartz, Political Science
Michael Sorozini, Mathematics
APPENDIX

Student Rights and Responsibilities and College Regulations

College of Staten Island of The City University of New York

Appendix i

Campus Behavior Code


Rules and Regulations for the Maintenance of Public Order pursuant to Article 129-A of the Education Law. The tradition of the University as a sanctuary of academic freedom and center of informed discussion is an honored one, to be guarded vigilantly. The basic significance of that sanctuary lies in the protection of intellectual freedom: the rights of professors to teach, of scholars to engage in the advancement of knowledge, of students to learn and to express their views, free from external pressures or interference. These freedoms can flourish only in an atmosphere of mutual respect, civility, and trust among teachers and students, only when members of the University community are willing to accept self-restraint and reciprocity as the condition upon which they share in its intellectual autonomy.

Academic freedom and the sanctuary of the University campus extend to all who share these aims and responsibilities. They cannot be invoked by those who would subordinate intellectual freedom to political ends, or who violate the norms of conduct established to protect that freedom. Against such offenders the University has the right and, indeed, the obligation, to defend itself. We accordingly announce the following rules and regulations to be in effect at each of our colleges, which are to be administered in accordance with the requirements of due process as provided in the Bylaws of the Board of Higher Education.

With respect to enforcement of these rules and regulations we note that the Bylaws of the Board of Higher Education provide that:

The president, with respect to his educational unit, shall:

- Have the affirmative responsibility of conserving and enhancing the educational standards of the college and schools under his jurisdiction;
- Be the advisor and executive agent of the Board and of his respective College Committee and as such shall have the immediate supervision with full disciplinary power in carrying into effect the Bylaws, resolutions and policies of the Board, the lawful resolutions of any of its committees and the policies, programs and lawful resolutions of the several faculties; and
- Exercise general superintending over the concerns, offices, employees and students of his educational unit.

L. Rules:

1. A member of the academic community shall not intentionally obstruct and/or forcibly prevent others from the exercise of their rights. Nor shall he interfere with the institution’s educational processes or facilities, or the right of those who wish to avail themselves of any of the institution’s instructional, personal, administrative, recreational, and community services.

2. Individuals are liable for failure to comply with lawful directions issued by representatives of the University/college when they are acting in their official capacities. Members of the academic community are required to show their identification cards when requested to do so by an official of the college.

3. Unauthorized occupancy of University/college facilities or blocking access to or from such areas is prohibited. Permission from appropriate college authorities must be obtained for removal, relocation and use of University/college equipment and/or supplies.

4. Theft from or damage to University/college premises or property, or theft of or damage to property of any person on University/college premises is prohibited.

5. Each member of the academic community or an invited guest has the right to advocate his position without having to fear abuse, physical, verbal, or otherwise from others supporting conflicting points of view. Members of the academic community and other persons on the college grounds shall not use language or take actions reasonably likely to provoke or encourage physical violence by demonstration, those demonstrated against, or spectators.

6. Action may be taken against any and all persons who have no legitimate reason for their presence on any campus within the University/college or whose presence on any such campus obstructs and/or forcibly prevents others from the exercise of their rights or interferes with the institution’s educational processes or facilities, or the rights of those who wish to avail themselves of any of the institution’s instructional, personal, administrative, recreational, and community services.

7. Disorderly or indecent conduct on University/college owned or controlled property is prohibited.

8. No individual shall have in his possession a rifle, shotgun or firearm or knowingly have in his possession any other dangerous instrument or material that can be used to inflict bodily harm on an individual or damage upon a building or the grounds of the University/college without the written authorization of such educational institution. Nor shall any individual have in his possession any other instrument or material which can be used and is intended to inflict bodily harm on an individual or damage upon a building or the grounds of the University/college.

9. Any action or situation which recklessly or intentionally endangers mental or physical health or involves the forced consumption of liquor or drugs for the purpose of intimidation or affiliation with any organization is prohibited.

10. The unlawful manufacture, distribution, dispensation, possession, or use of illegal drugs or other controlled substances by University/college students or employees on University/college premises, or as part of any University/college activities is prohibited. Employees of the University must also notify the College Personnel Director of any criminal drug statute conviction for a violation occurring in the workplace not later than five days after such conviction.

11. The unlawful possession, use, or distribution of alcohol by students or employees on University/college premises or as part of any University/college activities is prohibited.

II. Penalties:

1. Any person engaging in any manner in conduct prohibited under Substantive Rules 1-8 shall be subject to the following range of sanctions as hereafter defined: admonition, warning, censure, disciplinary probation, restitution, suspension, expulsion, ejection, and/or arrest by the police authorities.

2. Any tenured or non-tenured faculty member, or tenured or non-tenured member of the administrative or custodial staff engaging in any manner in conduct prohibited under Substantive Rules 1-8 shall be subject to the following range of penalties: warning, censure, restitution, fine not exceeding those permitted by law or by the Bylaws of the Board of Higher Education, or suspension with or without pay pending a hearing before an appropriate college authority, dismissal after a hearing, ejection, and/or arrest by the civil authorities. In addition, in the case of a tenured faculty member, or tenured member of the administrative or custodial staff, engaging in any manner in conduct prohibited under Substantive Rules 1-11 shall be entitled to be treated in accordance with applicable provisions of the Education Law, or Civil Service Law, or the applicable collective bargaining agreement, or the Bylaws or written policies of The City University of New York.

3. Any visitor, licensee, or invitee, engaging in any manner in conduct prohibited under Substantive Rules 1-11 shall be subject to ejection, and/or arrest by the civil authorities.

4. Any organization which authorized the conduct prohibited under Substantive Rules 1-11 shall have its permission to operate on campus rescinded. Penalties 1-4 shall be in addition to any other penalty provided by law or The City University Trustees.

Sanctions defined:

A. Admonition: An oral statement to the offender that he has violated university rules.

B. Warning: Notice to the offender, orally or in writing, that continuation or repetition of the wrongful conduct, within a period of time stated in the warning, may be cause for more severe disciplinary action.

C. Censure: Written reprimand for violation of specified regulation, including the possibility of more severe disciplinary sanction in the event of conviction for the violation of any University regulation within a period stated in the letter of reprimand.

D. Disciplinary Probation: Exclusion from participation in privileges or extra-curricular University activities as set forth in the notice of disciplinary probation for a specified period of time.

E. Restitution: Reimbursement for damage to or misappropriation of property. Reimbursement may take the form of deposit into the offender’s account, appropriate service to repair or otherwise compensate for damages.

F. Suspension: Exclusion from classes and other privileges or activities as set forth in the notice of suspension for a definite period of time.

G. Expulsion: Termination of student status for an indefinite period. The conditions of readmission, if any is permitted, shall be stated in the order of expulsion.

H. Complaint to Civil Authorities

I. Ejection.

Resolved, That a copy of these rules and regulations be filed with the Regents of the State of New York and with the Commissioner of Education. Resolved, That these rules and regulations be incorporated in each college bulletin.

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...
I. Definitions and Examples of Academic Dishonesty

Cheating is the unauthorized use or attempted use of material, information, notes, study aids, devices or communication during an academic exercise.

The following are some examples of cheating, but by no means is it an exhaustive list:
- Coping another student during an examination or allowing another to copy your work.
- Unauthorized collaboration on a take home assignment or examination.
- Using notes during a closed book examination.
- Taking an examination for another student, or asking or allowing another student to take an examination for you.
- Changing a graded exam and returning it for more credit. Submitting substantial portions of the same paper to more than one course without consulting with each instructor.
- Preparing answers or writing notes in a blue book (exam booklet) before an examination. Allowing others to research and write assigned papers or do assigned projects, including use of commercial term paper services.
- Giving assistance to acts of academic misconduct/dis-honesty.
- Using information from another source and misrepresenting it as your own work.
- Submitting someone else’s work as your own.
- Unauthorized use during an examination of any electronic devices such as cell phones, palm pilots, personal computers, or other technologies to retrieve or send information.

Plagiarism is the act of presenting another person’s ideas, research or writings as your own. The following are some examples of plagiarism, but by no means is it an exhaustive list:
- Copying another person’s actual words without the use of quotation marks and footnotes attributing the words to their source.
- Presenting another person’s ideas or theories in your own words without acknowledging the source.
- Using information that is not common knowledge without acknowledging the source.
- Failing to acknowledge collaborators on homework and laboratory assignments.

Internet plagiarism includes submitting downloaded term papers or parts of term papers, paraphrasing or copying information from the Internet without citing the source, and “cutting & pasting” from various sources without proper attribution.

Obtaining unfair advantage is any activity that intentionally or unintentionally gives a student an unfair advantage in his/her academic work over another student. The following are some examples of obtaining an unfair advantage, but by no means is it an exhaustive list:
-Stealing, reproducing, circulating or otherwise gaining advance access to examination materials.
-Depriving other students of access to library materials by stealing, destroying, defacing, or concealing them.
-Retaining, using or circulating examination materials which clearly indicate that they should be returned at the end of the exam.
-Intentionally obstructing or interfering with another student’s work.

II. Methods for Promoting Academic Integrity

Orientation sessions for all new faculty (full and part-time) and students should incorporate a discussion of academic integrity. Packets containing information explaining the policy, the procedures that are in place, and examples of infractions should be distributed. These packets should be readily available, throughout the academic year, in the appropriate offices of the college and the locations of those offices should be widely publicized. Colleges using additional resources to detect plagiarism should publicize these resources widely.

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.

Appendix iii

CUNY Policy on Academic Integrity

Academic Dishonesty is prohibited in The City University of New York and is punishable by penalties, including failing grades, suspension, and expulsion, as provided herein.

I. Definitions and Examples of Academic Dishonesty

Cheating is the unauthorized use or attempted use of material, information, notes, study aids, devices or communication during an academic exercise.

The following are some examples of cheating, but by no means is it an exhaustive list:
- Coping another student during an examination or allowing another to copy your work.
- Unauthorized collaboration on a take home assignment or examination.
- Using notes during a closed book examination.
- Taking an examination for another student, or asking or allowing another student to take an examination for you.
- Changing a graded exam and returning it for more credit. Submitting substantial portions of the same paper to more than one course without consulting with each instructor.
- Preparing answers or writing notes in a blue book (exam booklet) before an examination. Allowing others to research and write assigned papers or do assigned projects, including use of commercial term paper services.
- Giving assistance to acts of academic misconduct/dis-honesty.
- Using information from another source and misrepresenting it as your own work.
- Submitting someone else’s work as your own.
- Unauthorized use during an examination of any electronic devices such as cell phones, palm pilots, personal computers, or other technologies to retrieve or send information.

Plagiarism is the act of presenting another person’s ideas, research or writings as your own. The following are some examples of plagiarism, but by no means is it an exhaustive list:
- Coping another person’s actual words without the use of quotation marks and footnotes attributing the words to their source.
- Presenting another person’s ideas or theories in your own words without acknowledging the source.
- Using information that is not common knowledge without acknowledging the source.
- Failing to acknowledge collaborators on homework and laboratory assignments.

Internet plagiarism includes submitting downloaded term papers or parts of term papers, paraphrasing or copying information from the Internet without citing the source, and “cutting & pasting” from various sources without proper attribution.

Obtaining unfair advantage is any activity that intentionally or unintentionally gives a student an unfair advantage in his/her academic work over another student. The following are some examples of obtaining an unfair advantage, but by no means is it an exhaustive list:
- Stealing, reproducing, circulating or otherwise gaining advance access to examination materials.
- Depriving other students of access to library materials by stealing, destroying, defacing, or concealing them.
- Retaining, using or circulating examination materials which clearly indicate that they should be returned at the end of the exam.
- Intentionally obstructing or interfering with another student’s work.

Ill. Procedures for Imposition of Sanctions for Violations of CUNY Policy on Academic Integrity

A. Introduction

As a legal matter, in disciplining students for violations of policies of academic integrity, CUNY, as a public institution, must conform to the principles of due process mandated by the Fourteenth Amendment to the United States Constitution -- generally speaking, to provide notice of the charges and some opportunity to be heard. In the context of court-organized violations, questions as to how much and what kind of process was “due” turn on the courts’ judgment whether the decision on culpability was “disciplinary” (a question of fact) or “academic” (a question of the instructor’s expert judgment). This distinction has proved difficult to apply on campus. Accordingly, these procedures provide for alternative approaches depending on the severity of the sanction(s) being sought. If the instructor desires solely an “academic” sanction, that is, a grade reduction, less process is due than if a “disciplinary” sanction, such as suspension or expulsion, is sought.

B. Procedure for Imposition of Sanctions

The following are some examples of falsification, but by no means is it an exhaustive list:
- Forging signatures of authorization.
- Falsifying information on an official academic record.
- Falsifying information on an official document such as a grade report, letter of permission, drop/add form, ID card or other college document.

Adapted with permission from Baruch College: A Faculty Guide to Student Academic Integrity. The Baruch College document includes excerpts from University of California’s web page entitled “The Academic Dishonesty Questions: A Guide to an Answer through Education, Prevention, Adjudication and Obligation” by Prof. Harry Nelson.

C. Procedure for Imposition of Sanctions: Academic Dishonesty

I. Definitions and Examples of Academic Dishonesty

Academic Dishonesty is prohibited in The City University of New York and is punishable by penalties, including failing grades, suspension, and expulsion, as provided herein.

I. Definitions and Examples of Academic Dishonesty

Cheating is the unauthorized use or attempted use of material, information, notes, study aids, devices or communication during an academic exercise.

The following are some examples of cheating, but by no means is it an exhaustive list:
- Coping another student during an examination or allowing another to copy your work.
- Unauthorized collaboration on a take home assignment or examination.
- Using notes during a closed book examination.
- Taking an examination for another student, or asking or allowing another student to take an examination for you.
- Changing a graded exam and returning it for more credit. Submitting substantial portions of the same paper to more than one course without consulting with each instructor.
- Preparing answers or writing notes in a blue book (exam booklet) before an examination. Allowing others to research and write assigned papers or do assigned projects, including use of commercial term paper services.
- Giving assistance to acts of academic misconduct/dis-honesty.
- Using information from another source and misrepresenting it as your own work.
- Submitting someone else’s work as your own.
- Unauthorized use during an examination of any electronic devices such as cell phones, palm pilots, personal computers, or other technologies to retrieve or send information.

Plagiarism is the act of presenting another person’s ideas, research or writings as your own. The following are some examples of plagiarism, but by no means is it an exhaustive list:
- Coping another person’s actual words without the use of quotation marks and footnotes attributing the words to their source.
- Presenting another person’s ideas or theories in your own words without acknowledging the source.
- Using information that is not common knowledge without acknowledging the source.
- Failing to acknowledge collaborators on homework and laboratory assignments.

Internet plagiarism includes submitting downloaded term papers or parts of term papers, paraphrasing or copying information from the Internet without citing the source, and “cutting & pasting” from various sources without proper attribution.

Obtaining unfair advantage is any activity that intentionally or unintentionally gives a student an unfair advantage in his/her academic work over another student. The following are some examples of obtaining an unfair advantage, but by no means is it an exhaustive list:
- Stealing, reproducing, circulating or otherwise gaining advance access to examination materials.
- Depriving other students of access to library materials by stealing, destroying, defacing, or concealing them.
- Retaining, using or circulating examination materials which clearly indicate that they should be returned at the end of the exam.
- Intentionally obstructing or interfering with another student’s work.
A faculty member who suspects that a student has committed a violation of the CUNY or the college Academic Integrity Policy shall review with the student the facts and circumstances of the suspected violation whenever possible. The decision whether to seek an academic sanction only, rather than a disciplinary sanction or both types of sanctions, will rest with the faculty member in the first instance, but the college retains the right to bring disciplinary charges against the student. Among the factors the college should consider in determining whether to seek a disciplinary sanction are whether the student has committed one or more prior violations of the Academic Integrity Policy and mitigating circumstances if any. It is strongly recommended that every instance of suspected violation be reported to the Academic Integrity Official on a form provided by the college as described in the third Recommendation for Promoting Academic Integrity, above. Among other things, this reporting will allow the college to determine whether it wishes to seek a disciplinary sanction even where the instructor may not wish to do so.

B. Procedures In Cases Where The Instructor Seeks An Academic Sanction Only

1. By the Faculty Member To the Academic Integrity Official If the faculty member wishes to seek only academic sanction (i.e., a reduced grade only), and the student does not contest either his/her guilt or the particular reduced grade the faculty member has chosen, then the student shall be given the reduced grade, unless the college decides to seek a disciplinary sanction, see Section I above and IV below. The reduced grade may apply to the particular assignment as to which the violation occurred or to the course grade, at the faculty member's discretion.

2. Student Denies Guilt And/OR Contests The Academic Sanction

If the student denies guilt or contests the particular grade awarded by the faculty member, then the matter shall be handled using the college's grade appeals process, including departmental grading committees where applicable, or the Academic Integrity Committee. In either case, the process must, at a minimum, provide the student with an opportunity to be heard and to present evidence.

C. Procedures In Cases Where A Disciplinary Sanction Is Sought

If a faculty member suspects a violation and seeks a disciplinary sanction, the faculty member shall refer the matter to the college's Academic Integrity Official using the Faculty Report form, as described in the third recommendation for promoting Academic Integrity above, to be adjudicated by the college's Faculty-Student Disciplinary Committee under Article 15 of the CUNY Bylaws. As provided for therein, the Faculty-Student Disciplinary may, among other things, investigate, conclude, or hear evidence on cases in which disciplinary charges are brought. Under certain circumstances, college officials other than the Academic Integrity Official may seek disciplinary sanctions following the procedures outlined above. For the reasons discussed in Item IV below, if a reduced grade is at issue, then that grade should be held in abeyance pending the Faculty-Student Disciplinary Committee's action.

D. Procedures In Cases In Which Both A Disciplinary And An Academic Sanction Are Sought

If a faculty member or the college seeks to have both a disciplinary and an academic sanction imposed, it is not advisable to proceed on both fronts simultaneously lest inconsistent results ensue. Thus, it is best to begin with the disciplinary proceeding seeking imposition of a disciplinary sanction and await its outcome before addressing the academic sanction. If the Faculty-Student Disciplinary Committee finds that the alleged violation occurred, then the faculty member may reflect that finding in the student's grade. If the Faculty-Student Disciplinary Committee finds that the alleged violation did not occur, then no sanction of any kind may be imposed. The decision whether to pursue both types of sanctions will ordinarily rest with the faculty member.

E. Reporting Requirements

1. By the Faculty Member To the Academic Integrity Official

In cases where a violation of academic integrity has been found to have occurred (whether by admission or a fact-finding process), the faculty member should promptly file with the Academic Integrity Official a report of the adjudication in writing on a Faculty Report form provided by the college as described above. The Academic Integrity Official shall maintain a confidential file for each student about whom a suspected or adjudicated violation is reported. If either the grade appeals process or the Faculty-Student Disciplinary Committee finds that the alleged violation did not occur, the Academic Integrity Official shall remove and destroy all material relating to that incident from the student's confidential academic integrity file. Before determining what sanctions(s) to seek, the faculty member or the Academic Integrity Official may consult the student's confidential academic integrity file, if any, to determine whether the student has been found to have previously committed a violation of the Academic Integrity Policy, the nature of the violation, and the sanction imposed or action taken.

2. By the Academic Integrity Official To the Faculty Member

Where a matter proceeds to the Faculty-Student Disciplinary Committee, the Academic Integrity Official shall promptly report its resolution to the faculty member and file a record of the resolution in the student's confidential academic integrity file, unless, as indicated above, the suspected violation was held to be unfounded, in which case all reporting forms concerning that suspected violation shall be destroyed.

Endnotes

1. A reduced grade can be an “E,” “F,” “D,” or another grade that is lower than the grade that would have been given but for the violation.

2. Typically, disciplinary sanctions would be sought in cases of the most egregious, or repeated, violations, for example: infractions in ways similar to criminal activity (such as forging a grade form; stealing an examination from a professor or a university office; or forging a transcript); having a substitute take an examination or taking an examination for someone else; subverting another student's work through actions designed to prevent the student from successfully completing an assignment; dishonesty that affects a major or essential portion of work done to meet course requirements. [These examples have been taken from a list of violations compiled by Rutgers University.]

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 to 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 the said student such equivalent opportunity.

4. If registration, classes, examinations, study, or work requirements are held on Friday after four o'clock p.m. on Saturday, or on Sunday, or on any other day designated by the institution as such, 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 as 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 this section, informing them that each student who is absent from school, because of his or her religious beliefs, must be given an equivalent opportunity to register for classes or make up any examination, study, or work requirements which he or 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 each student such equivalent opportunity.

7. As used in this section, the term "institution of higher education" shall mean any institution of higher education, recognized and approved by the regents of the University of the State of New York, which provides a course of study leading to the granting of a postsecondary degree or diploma. Such term shall not include any institution which is operated, supervised, or controlled by a church or by a religious or denominational organization whose educational programs are primarily designed for the purpose of training ministers or other religious functionaries or for the purpose of propagating religious doctrines. As used in this section, the term "religious belief" shall mean beliefs associated with any corporation organized and operated exclusively for religious purposes, which is not disqualified for tax exemption under section 501 of the United States Code.

Appendix vi

Access to Student Records

The Family Educational Rights and Privacy Act (FERPA) affords students certain rights with respect to their education records. See Section “6” below on your right to prevent the disclosure of directory information. The FERPA rights of students are:

1. The right to inspect and review your education records.

Students should submit to the registrar, dean, of the academic department, or other appropriate official, written requests that identify the record(s) they wish to inspect. If the record(s) are not maintained by the college official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.

All requests shall be granted or denied in writing within 45 days of receipt. If the request is granted, you will be notified of the time and place where the records may be inspected. If the request is denied or not responded to within 45 days, you may appeal to the college's FERPA appeals officer. Additional information regarding the appeal procedures will be provided to you if a request is denied.

2. The right to request the amendment of the student's education records that the student believes are inaccurate or misleading.
You may ask the college to amend a record that you believe is inaccurate or misleading. You should write to the college official responsible for the record, clearly identify the part of the record you want changed, and specify why it is inaccurate or misleading.

If the college decides not to amend the record as requested by you, the college will notify you of the decision and advise you of your right to a hearing before the college's FERPA appeals officer regarding the request for amendment. Additional information regarding the hearing procedures will be provided to you when notified of your right to a hearing.

(5) The right to consent to disclosure of personally identifiable information contained in your education records, except to the extent that FERPA authorizes disclosure without consent.

One exception which permits disclosure without consent is disclosure to college officials with legitimate educational interests. A college official is a person employed by the university in an administrative, supervisory, academic or research, or support staff position; a person or company with whom the University has contracted; a person serving on the Board of Trustees; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another college official in performing his or her tasks.

A college official has a legitimate educational interest if access is reasonably necessary in order to perform his/her instructional, research, administrative or other duties and responsibilities.

Once upon, the college discloses education records without consent to officials of another college or school in which a student seeks or intends to enroll.

(6) You may appeal the alleged denial of FERPA rights to the:

General Counsel and Vice Chancellor for Legal Affairs
The City University of New York
555 East 80th Street
New York, NY 10021.

(5) The right to file a complaint with the U.S. Department of Education concerning alleged failures by the college to comply with the requirements of FERPA. The name and address of the Office that administers FERPA are:

Family Policy Compliance Office
U.S. Department of Education
600 Independence Avenue, SW
Washington, DC 20202-4605.

(6) The college will make the following "directory information" concerning current and former students available to those parties having a legitimate interest in the information: name, address, dates of attendance, major field of study, degrees and honors received.

You may request that the college not disclose the following "directory information" concerning current and former students: period of enrollment, address, telephone number, date and place of birth, photograph, email address, full- or part-time status, enrollment status (undergraduate, graduate, etc.), level of education (credits) completed, major field of study, degree enrolled for, participation in officially recognized activities and sports, height and weight of athletic team members, previous school attendance, and degrees, honors and awards received. By filing a form with the Registrar's Office, you may request that any or all of this directory information not be released without your prior written consent. This form is available in the Registrar's Office and may be filed, withdrawn, or modified at any time.

Appendix vii
Section 504
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.

Mr. Hector Antune, is the College Affirmative Action Officer. Coordinator for Title IX, which prohibits sex discrimination in federally assisted education programs, and Coordinator for the Age Discrimination Act, which prohibits age discrimination in federally assisted education programs. His office is located in the South Administration Building 31a (31a), Room 102, and the telephone number is 1.718.982.2350.

Professor Jeffrey Rothman, Physical Therapy Program, and Ms. Margaret Venditti, Coordinator of Disabilities Services, are the College coordinators for the Americans with Disabilities Act and Section 504, which prohibit discrimination on the basis of disability. Professor Rothman's office is located in the Engineering Technologies East Building (55E), Room 207, and his telephone number is 1.718.982.3155. Ms. Venditti's office is located in the Center for the Arts (1P), Room 101, and her telephone number is 1.718.982.2513.

Appendix viii
Federal Rehabilitation Act

The 1973 Federal Rehabilitation Act as amended (29 U.S.C. 794) and 1990 Americans with Disabilities Act (ADA) require reasonable accommodation and prohibit discrimination on the basis of disability. Section 504 states, in part, that "no otherwise qualified individual with handicaps shall, solely by reason of his/her handicap, be excluded from the participation in, be denied benefits of, or be subjected to discrimination under any program or activity receiving Federal financial assistance . . . ."

Policies and Procedures for Moving Programs/Activities to Accessible Areas

The campus of the College of Staten Island was designed according to the accessibility guidelines at the time of its construction. However, events such as broken equipment or elevators, or unique needs of a student or College employee with a disability may require reasonable accommodations. The student or employee requiring that a class, academic program, or academic activity on campus be moved to make it accessible should contact the Office of Disability Services, 1P-101, extension 2513. Ms. Margaret Venditti, Director of Disability Services, 1P-101D, extension 2513, is responsible for arranging for the change of site to an accessible area. It is the responsibility of the student or employee to make the Office of Disability Services aware of the need for accommodations to allow adequate time for the change.

If an activity or program other than a class or an academic program/activity needs to be moved, the responsible to ensure accessibility lies with the sponsoring agent.

Informal Procedure for Handling a Complaint

Students and employees may avail themselves of an informal procedure for handling complaints. Ms. Margaret Venditti may be contacted by students at Room 101D Center for the Arts, telephone 1.718.982.2513.

Employees may contact Professor Jeffrey Rothman, 504/ADA Compliance Coordinator. His office is located in the Engineering Technologies East Building (55E), Room 207, and his telephone number is 1.718.982.3153 or 3156. Discussions of complaints will be entirely informal and Ms. Venditti and Professor Rothman will attempt an informal resolution.

Formal Procedures for Handling a Complaint

A formal complaint shall be filed with the 504/ADA Coordinator, Professor Jeffrey Rothman. The complaint, which may be transmitted in writing or verbally, should briefly describe the alleged violation of the regulation and contain the name, address, and telephone number of the person filing the complaint. The complaint must be filed within 45 days after the complainant becomes aware of the alleged violation. This requirement can be waived at the discretion of the 504/ADA Committee.

An investigation, as may be appropriate, shall follow a filing of a complaint. The 504/ADA Coordinator may request the assistance of one or more members of the 504/ADA Committee. The investigation will afford all interested persons and their representatives, if any, an opportunity to submit evidence relevant to a complaint.

Under the Office for Civil Rights regulations, the College need not process complaints from applicants for employment or from applicants for admission to post-secondary educational institutions.

- A written determination as to the validity of the complaint and a description of the resolution, if any, shall be issued by the 504/ADA Coordinator and a copy forwarded to the complainant no later than 45 days after filing. This requirement is extended an additional 45 days at the discretion of the 504/ADA Committee. The 504/ADA Compliance Coordinator shall maintain the files and records of the College relating to the complaints filed.

A complainant may appeal a determination directly to the Office of the President. An appeal shall be made in writing within 15 days after the delivery of the decision. This requirement may be waived in a particular case for good cause by the President, who shall consider the appeal and communicate her/his decision to the complainant within 20 days of receipt.

Appendix ix
Policy Against Sexual Harassment

Action of The City University Board of Trustees

at the meeting of June 26, 1995: Policy Statement

It is the policy of The City University of New York to promote a cooperative work and academic environment in which there exists mutual respect for all University students, faculty, and staff. Harassment of employees or students based upon sex is inconsistent with this objective and contrary to the University policy of equal employment and academic opportunity without regard to age, sex, sexual orientation, alienage or citizenship, religion, race, color, national or ethnic origin, handicap, and veteran or marital status. Sexual harassment is illegal under federal, State, and City law, and will not be tolerated within the University.

The University, through its colleges, will disseminate this policy and take other steps to educate the University community about sexual harassment. The University will establish procedures to ensure that investigations of allegations of sexual harassment are conducted in a manner that is prompt, fair, thorough, and as confidential as possible under the circumstances, and that appropriate corrective and/or disciplinary action is taken as warranted by the circumstances when sexual harassment is determined to have occurred. Members of the University community who believe themselves to be aggrieved under this policy are strongly encouraged to report the allegations of sexual harassment as promptly as possible. Delay in making a complaint of sexual harassment may make it more difficult for the college to investigate the allegations.
A. Prohibited Conduct

It is a violation of University policy for any member of the University community to engage in sexual harassment or to retaliate against any member of the University community for raising an allegation of sexual harassment, for filing a complaint alleging sexual harassment, or for participating in any proceeding to determine if sexual harassment has occurred.

B. Definition of Sexual Harassment

For purposes of this policy, sexual harassment is defined as unwelcome sexual advances, requests for sexual favors, and other oral or written communications or physical conduct of a sexual nature when: (1) submission to such conduct is made either explicitly or implicitly a term or condition of an individual's employment or academic standing; (2) submission to or rejection of such conduct by an individual is used as a basis for employment or academic decisions affecting such individual; or (3) such conduct has the purpose or effect of unreasonably interfering with an individual's work or academic performance or creating an intimidating, hostile or abusive work or academic environment.

Sexual harassment can occur between individuals of different sexes or of the same sex. Although sexual harassment most often exploits a relationship between individuals of unequal power (such as between faculty/staff member and student, supervisor and employee, or tenured and untenured faculty members), it may also occur between individuals of equal power (such as between fellow students or co-workers), or in some circumstances even where it appears that the harasser has less power than the individual harassed (for example, a student sexually harassing a faculty member). A lack of intent to harass may be relevant to, but will not be determinative of, whether sexual harassment has occurred.

C. Examples of Sexual Harassment

Sexual harassment may take different forms. Using a person's response to a request for sexual favors as a basis for an academic or employment decision is one form of sexual harassment. Examples of this type of sexual harassment (known as quasi-quid pro quo harassment) include, but are not limited to, the following:

- requesting or demanding sexual favors to exchange for employment or academic opportunities (such as hiring, promotion, grades, or recommendations);
- submitting unfair or inaccurate job or academic evaluations or grades, or denying training, promotion, or access to any other employment or academic opportunities, because sexual advances have been rejected.

Other types of unwelcome conduct of a sexual nature can also constitute sexual harassment, if sufficiently severe or pervasive that the target does find, and a reasonable person would find, that an intimidating, hostile or abusive work or academic environment has been created. Examples of this kind of sexual harassment (known as hostile environment harassment) include, but are not limited to, the following:

- sexual comments, teasing, or jokes;
- sexual slurs, demeaning epithets, derogatory statements, or other verbal abuse;
- sexually suggestive letters or other written materials;
- graphic or sexually suggestive comments about an individual's attire or body;
- inquiries or discussions about sexual activities;
- pressure to accept social invitations, to meet privately, to date, or to have sexual relations;
- sexually suggestive gestures, cornering, pinching, grabbing, kissing, or fondling;
- coerced sexual intercourse or sexual assault.

D. Consensual Relationships

Amorous dating, or sexual relationships that might be appropriate in other circumstances have inherent dangers when they occur between a faculty member, supervisor, or other member of the University community and any person for whom he or she has a professional responsibility. These dangers can include: that a student or employee may feel coerced into an unwanted relationship because he or she fears that refusal to enter into the relationship will adversely affect his or her education or employment; that conflicts of interest may arise when a faculty member, supervisor, or other member of the University community is required to evaluate the work or make personnel or academic decisions with respect to an individual with whom he or she is having a romantic relationship; that students or employees may perceive that a fellow student or co-worker who is involved in a romantic relationship will receive an unfair advantage; and that if the relationship ends in a way that is not amicable, either or both of the parties may wish to take action to injure the other party.

Faculty members, supervisors, and other members of the University community who have professional responsibility for other individuals, accordingly, should be aware that any romantic or sexual involvement with a student or employee for whom they have such a responsibility may raise questions as to the mutuality of the relationship and may lead to charges of sexual harassment. For the reasons stated above, such relationships are strongly discouraged. For purposes of this section, an individual has "professional responsibility" for another individual at the University if he or she performs functions including, but not limited to, teaching, counseling, grading, advising, evaluating, hiring, supervising, or making decisions or recommendations that confer benefits such as promotions, financial aid or awards or other remuneration, or that may impact upon other academic or employment opportunities.

E. Academic Freedom

This policy shall not be interpreted so as to constitute interference with academic freedom.

F. False and Malicious Accusations

Members of the University community who make false and malicious complaints of sexual harassment, as opposed to complaints which, even if erroneous, are made in good faith, will be subject to disciplinary action.

G. Procedures

The University shall develop procedures to implement this policy. The President of each constituent college of the University, the Deputy Chancellor at the Central Office, and the Dean of the Law School shall have ultimate responsibility for overseeing compliance with this policy at his or her respective unit of the University. In addition, each dean, director, department chairperson, executive officer, administrator, or other person with supervisory responsibility shall be required to report any complaint of sexual harassment to an individual or individuals to be designated in the procedures. All members of the University community are required to cooperate in any investigation of a sexual harassment complaint.

H. Enforcement

There is a range of corrective actions and penalties available to the University for violations of this policy. Students, faculty, or staff who are found, following applicable disciplinary proceedings, to have violated this Policy are subject to various penalties, including termination of employment and permanent dismissal from the University.

Procedures for Implementation of The City University's Policy Against Sexual Harassment

The following are procedures for the implementation of the Policy Against Sexual Harassment of The City University of New York (hereinafter "Policy"). Each President shall:

a. Appoint and provide for appropriate training to a Sexual Harassment Panel (hereinafter "Panel") to be available to students and employees who wish to make complaints of sexual harassment. The structure of the Panel and respective responsibilities of the various Panel members are set forth in paragraph 2 below.

b. Appoint and provide for appropriate training to a Sexual Harassment Education Committee to be responsible for educating the college community about sexual harassment, through printed materials, workshops, and the like.

c. Determine the Policy against sexual harassment, including the names, titles, telephone numbers, and office locations of college Panel members, annually to all students and employees. It is recommended that such information be included in student, faculty, and staff handbooks and newsletters.

d. Submit annually to the Chancellor, or his/her designee, a report regarding sexual harassment, including a summary of the educational activities undertaken at the college during the year and a summary of the number of complaints filed and the general outcomes thereof. An annual summary report will also be provided to the Board of Trustees.

2. Structure and Responsibilities of the Sexual Harassment Panel

a. The Panel shall consist of a Coordinator, a Deputy Coordinator, and four to six additional members, all of whom shall be appointed by and serve at the pleasure of the President. The President must include among that number two instructional staff members selected by the College-wide Personnel and Budget (F&B) Committee, or equivalent personnel committee, from among a list of four to six instructional staff members nominated to it by the President. It is strongly recommended that the President select one of these two Panel members as the Deputy Coordinator. Further, it is strongly recommended that the Panel reflect the diversity of the college, be composed of faculty, administrators, staff, and students, and include the college Affirmative Action Officer.

b. Panel members shall be appointed by the President as described in paragraph 2(a) above for two-year terms and may be reappointed for additional two-year terms, subject to at-will removal by the President at any time. The initial appointments shall be staggered, as follows: half of the Panel members, including the Coordinator shall be appointed for three-year terms, the remaining members of the Panel, including the Deputy Coordinator, shall be appointed for two-year terms. Thereafter, terms for all Panel members shall be two years. An appointment to fill a vacancy on the Panel shall be made pursuant to the procedures described above, and shall be for the remainder of the unexpired term of the vacancy.

c. All members of the Panel shall be available to receive complaints of sexual harassment from any member of the College community, to explain the University complaint procedures, and to refer individuals to appropriate resources. All Panel members have an obligation to maintain confidentiality to the fullest extent possible.

d. The Panel Coordinator is responsible for reviewing all complaints of sexual harassment, and for making efforts to resolve those complaints informally, if possible. When informal resolution is not possible, the Panel Coordinator and the Deputy Coordinator shall fully investigate the complaint, and the Panel Coordinator shall report to the President (and the Chief Student Affairs Officer, if the accused is a student) the results of the investigation. The Deputy Coordinator may also assume responsibility for the informal resolution or investigation of a complaint to the extent directed by the Panel Coordinator or Deputy Coordinator.

e. In the event that the Panel Coordinator is unavailable, the functions of the Panel Coordinator shall be performed by the Deputy Coordinator.

f. In the event that the complainant, the accused, or a third party believes that any member of the panel, including the Panel Coordinator or Deputy Coordinator, has a conflict of interest or for some other reason should not participate in the informal resolution or investigation of a particular complaint, he or she may ask the Panel Coordinator not to allow the Panel member (including the Panel Coordinator him or herself) to participate. Alternatively, the individual raising the issue may ask the President to direct that a particular Panel member not be involved in the informal resolution or investigation of a particular complaint.
3. Confidentiality

The identities of individuals who bring complaints of sexual harassment, who are accused of sexual harassment, or who are otherwise involved in the complaint process should be respected, and information obtained in connection with the bringing, investigation, or resolution of complaints should be handled as confidentially as possible. It is not possible, however, to guarantee absolute confidentiality and no such promises should be made by any member of the Panel or other University employee who may be involved in the complaint process.

4. Making a Complaint of Sexual Harassment

Any member of the University community may report allegations of sexual harassment to any member of the Panel. Employees who are covered by collective bargaining agreements may either use their contractual grievance procedures, within the time limits provided in those agreements, to report allegations of sexual harassment, or they may report such allegations directly to a member of the Panel as provided in these Procedures. Members of the University community who believe themselves to be aggrieved under the Policy are strongly encouraged to report the allegations of sexual harassment as promptly as possible. Delay in making a complaint may make it more difficult for the college to investigate the allegations.

5. Responsibilities of Supervisors

a. Each dean, director, department chairperson, executive officer, administrator, or other person with supervisory responsibility (hereinafter "supervisor") is responsible within his or her area of jurisdiction for the implementation of the Policy and must report to the Panel Coordinator any complaint of sexual harassment made to him or her and any other incidents of sexual harassment of which he or she becomes aware or reasonably believes to exist. Having reported such complaint or incident to the Panel Coordinator, the supervisor should keep it confidential and not disclose it further, except as necessary during the complaint process.

b. Each supervisor shall arrange for the posting, in his or her area, of the University policy against sexual harassment, the names, titles, telephone numbers, and office locations of college Panel members; and any other materials provided to him or her by the Sexual Harassment Education Committee for posting.

6. Responsibilities of the University Community—At-Large

Members of the University Community who become aware of allegations of sexual harassment should encourage the aggrieved individual to report the alleged sexual harassment to a member of the Panel.

7. Informal Resolution of Sexual Harassment Complaints

a. Any member of the Panel who receives a complaint of sexual harassment shall promptly advise the Panel Coordinator or, in his or her absence, the Deputy Coordinator of the complaint. Once the Panel Coordinator becomes aware of a complaint of sexual harassment, either through a member of the Panel or through another source, he or she shall conduct a preliminary investigation and make efforts, whenever possible, to resolve the complaint informally, i.e., by an arrangement that is acceptable to the complainant, the accused, and the college. Examples of informal resolutions include, but are not limited to:

- arranging for a workshop on sexual harassment to be conducted for the unit, division, or department in which the sexual harassment is alleged to have occurred;
- having a supervisor or a member of the Panel speak to the accused regarding the allegations of sexual harassment and counsel the accused as to appropriate behavior;
- arranging for a meeting between the complainant and the accused, with a third party present, to discuss and resolve the allegation;
- having the accused write a letter of apology.

Whenever possible, an informal resolution should be acknowledged in writing, signed by the complainant and the accused. The complainant should also be advised to sign such an acknowledgment.

b. If no informal resolution of a complaint is achieved following the preliminary investigation, the Panel Coordinator and the Deputy Coordinator shall conduct a formal investigation of the complaint. It is recognized, however, that complaints may be resolved by mutual agreement of the complainant, the accused, and the college at any time in the process.

8. Investigations of Sexual Harassment Complaints

While the investigation of sexual harassment complaints may vary depending upon the nature of each case, it is recommended that an investigation include the following, to the extent feasible:

a. The Panel Coordinator and the Deputy Coordinator should interview the complainant. The complainant may request that the Panel member to whom he or she originally brought the complaint be present at the interview. The complainant should be informed that an investigation is being commenced, that interviews of the accused and possibly other people will be conducted, and that the President (or the Chief Student Affairs Officer, if the accused is a student) will determine what action, if any, to take after the investigation is completed. A written statement, signed and dated by the complainant, should be obtained, which sets forth the particulars of the complaint, including dates and places, as well as the impact of the alleged harassment. The complainant should also be asked for the names of potential witnesses or others who may have relevant information.

b. The Panel Coordinator and the Deputy Coordinator should interview the accused. The accused should be advised that a complaint of sexual harassment has been received, that an investigation has begun, which may include interviews with third parties, and that the President (or the Chief Student Affairs Officer, if the accused is a student) will determine what action, if any, to take after the investigation is completed. The accused should be advised of the nature of the allegations against him or her and be given an opportunity to respond. A written statement, signed and dated by the accused, should be obtained, which sets forth his or her response to the allegations. The accused should also be asked for the names of potential witnesses or others who may have relevant information. In addition, the accused should be advised that any sexual harassment of or other retaliation against the complainant or others is prohibited and, if engaged in, will subject the accused to severe discipline, up to and including termination of employment or, if the accused is a student, permanent dismissal from the University. An accused employee who is covered by a collective bargaining agreement may, upon request, consult with a union representative and have a union representative present during the interview.

c. In addition to interviews with the complainant, the accused, and those persons named by them, it should be determined whether there are others who may have relevant information regarding the events in question and whether there is documentary evidence which may be relevant to the complaint. Whenever possible, written statements signed and dated by each person interviewed should be obtained. Persons interviewed should be advised that information related to the complaint should be kept confidential and not disclosed further, except as necessary during the complaint process. Consultation with other members of the Panel may also be sought during, or at the completion of, the investigation, as deemed appropriate by the Panel Coordinator.

d. In the event that a complaint is anonymous, the complaint should be investigated as thoroughly as possible under the circumstances.

e. While some complaints of sexual harassment may require extensive investigation, whenever possible, the investigation of most complaints should be completed within 60 days of the receipt of the complaint.

9. Action Following Investigation of Sexual Harassment Complaints

a. Promptly following the completion of the investigation, the Panel Coordinator shall make a report of the findings to the President. In the event that the accused is a student, the Panel Coordinator shall also submit the report to the Chief Student Affairs Officer.

b. Following receipt of the report, the President (or the Chief Student Affairs Officer, if the accused is a student) shall promptly take such action as he or she deems necessary and proper to correct the effects of or to prevent further harm to an affected party or others similarly situated, including commencing action to discipline the accused under applicable University Bylaws or collective bargaining agreements. In addition to initiating disciplinary proceedings, corrective action may include, but is not limited to, transferring a student to another class section, transferring an employee, or granting a benefit wrongfully withheld.

c. The complainant and the accused should be apprised of action taken as a result of the complaint.

10. Immediate Preventive Action

The President can, in extreme cases, take whatever action is appropriate to protect the college community.

11. False Complaints

In the event that the Panel Coordinator concludes that a complainant made a complaint of sexual harassment with knowledge that the allegations were false, the Panel Coordinator shall state this conclusion in his or her report. The failure to substantiate a sexual harassment complaint, however, is not in and of itself sufficient to demonstrate that a complaint was false.

12. Records and Reports

a. The Panel Coordinator shall keep the President informed regarding complaints of sexual harassment and shall provide the information necessary to prepare the annual report to the Chancellor referenced above in paragraph 1(d).

b. Records regarding complaints of sexual harassment shall be maintained in a secure location.

13. Applicability of Procedures

a. These Procedures are applicable to all of the colleges of the University. The Hunter College Campus Schools may make modifications to these procedures, subject to approval by the University, as appropriate to address the special needs of their elementary and high school students.

b. These Procedures are intended to provide guidance to the Presidents and Panel members for implementing the University policy against sexual harassment; these procedures do not create any rights or privileges on the part of any others.

Members of the Sexual Harassment Awareness and Intake Committee

Mr. Kevin Antoine, JD, Coordinator (Affirmative Action Officer, Title IX Coordinator, and Coordinator for the Age Discrimination Act), South Administration Building (1A), Room 105, Ext. 2250

Prof. Gloria Garcia, Deputy Coordinator (SEERS)

South Administration Building (1A), Room 112, Ext. 2415

Prof. Deborah Sturm (Computer Science)

Computer Science/Engineering Science and Physics Building (BN), Room 207, Ext. 2848

Prof. Lisa Moore (Sociology, Anthropology, and Social Work)

Psychology/Sociology, Anthropology, and Social Work Building (4S), Room 225, Ext. 3779

Prof. Sondea Brandler (Sociology, Anthropology, and Social Work)

Psychology/Sociology, Anthropology, and Social Work Building (4S), Room 224, Ext. 3769

Ms. Kathleen Glawon (Education)

Education Building (3S), Room 208, Ext. 3718

Prof. Barbara Kranyuk-Luise (Nursing)

Marcus Hall (5S), Room 204, Ext. 3843

Prof. David Koff (Education)

Education Building (3S), Room 214, Ext. 4095
Appendix x
Campus Safety and Security
The main Campus Public Safety office is located in the North Administration Building (2A), Room 108. Two satellite desks are located in the lobbies of the Campus Center and the Library. Campus Public Safety officers are on duty at the main gate and patrol the campus 24 hours a day. Emergency pull stations, identified by a blue light, are located throughout the campus, indoors and outdoors. 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 United States publish the incidents of crime reported on its campus. Following is the current CSI report.

<table>
<thead>
<tr>
<th>Crime</th>
<th>2004</th>
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<tbody>
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<tr>
<td>Forcible Sex Offenses</td>
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<tr>
<td>Robbery</td>
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<tr>
<td>Aggravated Assault</td>
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<td>0</td>
<td>1</td>
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<tr>
<td>Motor Vehicle Theft</td>
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<td>1</td>
<td>1</td>
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<tr>
<td>Burglary</td>
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<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Hate Crimes</td>
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<tr>
<td>Arson</td>
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<tr>
<td>Liquor Violation*</td>
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<tr>
<td>Drug Abuse*</td>
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<tr>
<td>Weapons Possession*</td>
<td>0</td>
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</tr>
</tbody>
</table>

*arrests only

More information regarding campus crime reporting and statistics can be found at the following website:

http://www.ope.ed.gov/security

No Smoking Policy
The College complies with The City University policy regarding smoking, which prohibits smoking inside all facilities of the College.

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.

Mr. Kevin Antoine is the College Affirmative Action Officer, Coordinator for Title IX, which prohibits sex discrimination in federally assisted education programs, and Coordinator for the Age Discrimination Act, which prohibits age discrimination in federally assisted education programs. His office is located in the South Administration Building (1A), Room 103, and his telephone number is 1.718.982.2250.

Professor Jeffrey Rothman, Physical Therapy Program, and Ms. Margaret Venditti, Coordinator of Disabilities Services, are the College coordinators for the Americans with Disabilities Act and Section 504, which prohibit discrimination on the basis of disability. Professor Rothman’s office is located in Building 5N, Room 207, and his telephone number is 1.718.982.3153. Ms. Venditti’s office is located in the Center for the Arts (1P), Room 101, and her telephone number is 1.718.982.2513.

For information, telephone:

College of Staten Island 1.718.982.2000
Office of Student Recruitment/Admissions 1.718.982.2010
Office of Financial Aid 1.718.982.2030
Public Safety (Office) 1.718.982.2116
(Emergency) 1.718.982.2111
Affirmative Action Office/Title IX 1.718.982.2250
CSI Website: www.csi.cuny.edu

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.
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TRAVEL INFORMATION

2800 Victory Boulevard

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 - 86th Street and 4th Avenue/College of Staten Island campus
Limited service Monday-Friday
Departs 86th Street at 6:55am, 7:55am, 8:55am
Departs CSI 3:00pm, 5:00pm, 7:00pm.

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 1.718.330.1234 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
Students are sold permits for on-campus parking at the time of registration on a first-come, first-served basis.
Speed limit: 25 mph.

Transportation within the Campus
Loop Bus - leaves the main gate approximately every ten minutes for a trip around the campus with regular stops; in operation during regular class schedule with adjusted hours for advisement and registration periods.

Van for Disabled
Dispatched by the Office of Operational Services or Security as requested (extension 3220 or 2112).
This Curriculum Supplement contains information about new courses, changes in courses, and changes in degree requirements implemented by the College since the printing of the current Undergraduate Catalog 2005-2007 effective fall 2006.
## COLLEGE CALENDAR

This calendar is subject to change. Check the College Website at [www.csi.cuny.edu/currentstudents/academiccalendars/](http://www.csi.cuny.edu/currentstudents/academiccalendars/) for the most updated information.

### FALL 2006

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<tbody>
<tr>
<td>Aug. 30</td>
<td>Wednesday</td>
<td>First day of classes</td>
</tr>
<tr>
<td>Sept. 4</td>
<td>Monday</td>
<td>College closed</td>
</tr>
<tr>
<td>Sept. 22-24</td>
<td>Friday-Sunday</td>
<td>No classes</td>
</tr>
<tr>
<td>Sept. 29</td>
<td>Friday</td>
<td>Last day to file for January 2007 graduation</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Last day to file for spring 2007 readmission</td>
</tr>
<tr>
<td>Oct. 2</td>
<td>Monday</td>
<td>No classes</td>
</tr>
<tr>
<td>Oct. 3</td>
<td>Tuesday</td>
<td>Classes follow Monday schedule</td>
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<tr>
<td>Oct. 9</td>
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<td>College closed</td>
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<tr>
<td>Oct. 24</td>
<td>Tuesday</td>
<td>Mid-term grades due</td>
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<tr>
<td>Nov. 22</td>
<td>Wednesday</td>
<td>Classes follow Friday schedule</td>
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<td>Nov. 23-24</td>
<td>Thursday-Friday</td>
<td>College closed</td>
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<td>Dec. 13</td>
<td>Wednesday</td>
<td>Last day of classes</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Last day to remove incomplete grades from spring and summer 2006</td>
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<td>Dec. 14-22</td>
<td>Thursday-Friday</td>
<td>Final Examinations</td>
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<td>Dec. 24-25</td>
<td>Sunday-Monday</td>
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### SPRING 2007

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<tr>
<td>Feb. 21</td>
<td>Wednesday</td>
<td>Classes follow Monday schedule</td>
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<tr>
<td>Mar. 1</td>
<td>Thursday</td>
<td>Last day to file for June/August 2007 graduation</td>
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<td></td>
<td></td>
<td>Last day to file for fall 2007 readmission</td>
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<td>Mar. 20</td>
<td>Tuesday</td>
<td>Mid-term grades due</td>
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<td>Apr. 2-10</td>
<td>Monday-Tuesday</td>
<td>No classes, Spring Recess</td>
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<td>May 17</td>
<td>Thursday</td>
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<td>May 18-25</td>
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<td>May 28</td>
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<td>May 31</td>
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NEW UNDERGRADUATE COURSES:

**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.
Prerequisites: CHN 213 or placement, and by permission of the Department of Modern Languages. Passing the CUNY/ACT Writing and Reading test.

**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.
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.
Prerequisite: CIN 100 or ENG 111

**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 497 Senior Project**
4 hours; 4 credits
An interdisciplinary seminar focused on students’ honors and thesis projects in the Cinema major.
Prerequisite: 12 credits in 300-400-level cinema courses

**COM 217 Voice and Diction for Performance and Communication**
(Also DRA 217)
4 hours; 4 credits
Concentration on pronunciation, enunciation, accent reduction, diaphragmatic breathing, relaxation techniques, and body alignment. Especially good for anyone considering a career in the public arena, including politics, management, theater, education, and communication. (Can be repeated for credit.)

**DRA 217 Voice and Diction for Performance and Communication**  
(Also COM 217)  
4 hours; 4 credits  
Concentration on pronunciation, enunciation, accent reduction, diaphragmatic breathing, relaxation techniques, and body alignment. Especially good for anyone considering a career in the public arena, including politics, management, theater, education, and communication. (Can be repeated for credit.)

**DRA 273 Performance Histories (1600–1900)**  
4 hours; 4 credits  
A survey of the English Restoration, French Neo-Classicism and the comedies of Moliere, 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 America, 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.  
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 America 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.  
Prerequisite: ENG 151 or DRA 140

**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 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 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-cho- reography, 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
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.
Prerequisite: Any 200-level ENH or WMS course

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 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

ENH 218 Introduction to the Study of Literature
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? And 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 is required of all English majors and offers the rudiments of the knowledge necessary for further study and teaching in the field. Satisfies the General Education category of Textual, Aesthetic, and Linguistic Analysis for non-English majors (TALA).
Prerequisite: ENG 151

ENS 463PHY 463 Introduction to Nanotechnology
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; and (iv) practical nanofabrication of rudimentary nanodevices with focused ion beams.

Prerequisite: ENS/PHY 385

**GEO 110 Field and Environmental Geology of Hawaii**

*Hours*: Lecture—45 hours (minimum); Laboratory and Field Application—30 hours (minimum).
A total of 75 hours.

*Credits*: 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)
Prerequisite: GEO 100 or equivalent course with the approval of the instructor.

**HON 223 Science and Technology in New York**

4 hours; 4 credits
An analysis of selected scientific and technological topics that have an impact on contemporary New York. Such topics might include, among others, communications and computer technologies, civil engineering and other applications of the physical sciences and environmental and medical issues in the urban setting. Students will read and interpret scientific literature; learn the necessary technical concepts to understand their readings; examine scientific research methods; and engage in the process of scientific inquiry as they undertake an original research project.
Prerequisite: Sophomore CUNY University Scholars status

**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 time. The instructor functions as game master while the students play the game themselves.
Prerequisites: ENG 111 and COR 100

**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.
Prerequisites: ENG 111, and any college-level history course or COR 100

**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 European history course: (The Contemporary World)
Prerequisites: ENG 151 and COR 100
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 a designated pre-1700 course.  
Prerequisites: ENG 151 and any 200-level history course

ITL 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.  
Prerequisite: Passing the CUNY/ACT Writing and Reading tests

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 Intensive Italian I, 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.  
Prerequisites: Passing the CUNY/ACT Writing and Reading tests; ITL 120

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: An appropriate score on the CUNY Mathematics Assessment Test or permission of the Department of Mathematics

PHY/ENS 463  Introduction to Nanotechnology  
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; and (iv) practical nanofabrication of rudimentary nanodevices with focused ion beams.  
Prerequisite: ENS/PHY 385

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 which 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 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

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**CHANGES TO COURSES (CHANGES ARE IN BOLD TYPE)**

**ACC 215 Intermediate Accounting I**
**Prerequisites:** BUS 150 or BUS 250 or CSC 102 and ACC 121

**ACC 250 Accounting Information Systems**
**Prerequisites:** ACC 121 and one of the following: BUS 150, BUS 250, CSC 102, or CSC 108/116/118

**ACC 422 Standards and Procedures of Financial Audits**
**Prerequisites:** ACC 225, MGT/ECO 230, and BUS 150 or BUS 250 or CSC 102

**BIO 105 Molecular Foundations of Cell Function**
Prerequisites: BIO 102, or BIO 106 and BIO 107, with a minimum grade of C or a satisfactory score on the Biology Placement Test.

**BIO 150 Human Anatomy and Physiology I**
Prerequisites: BIO 102, or BIO 106 and BIO 107, with a minimum grade of C or a satisfactory score on the Biology Placement Test.
CIN 100  Introduction to Film
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.)

CIN 111  Video I

CIN 211  Cinematography
A basic workshop in cinematography. Visual exercises will focus on techniques of composition, lighting, and camera movement.

CIN 220  Film History
Prerequisites: CIN 100 and ENG 111

CIN 230/AMS 230  American Film and American Myth
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.)
Prerequisites: ENG 111 and COR 100

CIN 240  Third Cinema
A survey of cinema from and about the Third World that emphasizes the effort to construct 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 emigres. (P&D)

CIN 301  Screen Adaptations
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
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
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 311 Video Workshop
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. Prerequisite: CIN 211

CIN 401 American Directors I
Study of film authorship in relation to one or more directors who worked in the American film industry before 1960. (arts & com.)
Prerequisites: ENG 151 and CIN 210 or CIN 220

CIN 402 American Directors II
Study of film authorship in relation to one or more directors who produced films in the United States after 1960. (arts & com.)
Prerequisites: ENG 151 and CIN 210 or CIN 220

CIN 404 French Directors I
Study of film authorship in relation to one or more directors who produced films in France before 1960. (arts & com.)
Prerequisites: ENG 151 and CIN 210 or CIN 220

CIN 405 French Directors II
Study of film authorship in relation to one or more directors who produced films in France after 1960, including those who are categorized as part of the “New Wave.” (arts & com.)
Prerequisites: ENG 151 and CIN 210 or CIN 220

CIN 407 European Cinema
Specialized study of European cinema, with attention to films or filmmakers of one or more of the countries of Europe. (arts & com.)
Prerequisites: ENG 151 and CIN 210 or CIN 220

CIN 408 Global Cinema
Specialized study of films produced outside of Europe and the United States. (arts & com.)
Prerequisites: ENG 151 and CIN 210 or CIN 220

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 sen-
tence 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.
Prerequisite: Permission of the Department of Modern Languages.

**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 Modern Languages, 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 or by permission of the Department of Modern Languages

**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.
Prerequisites: Passing the CUNY/ACT Writing and Reading tests and permission of the Department of Modern Languages

**CHN 114 Basic Mandarin II**
4 hours; 4 credits
This is the second semester of the 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.
Prerequisites: CHN 113 or placement, and permission of the Department of Modern Languages. Passing the CUNY/ACT Writing and Reading tests.

**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. This course fulfills the general education requirement.

Prerequisites: CHN 114 or placement, and by permission of the Department of Modern Languages. Passing the CUNY/ACT Writing and Reading tests.

CSC 228/MTH 228 Discrete Mathematical Structures for Computer Science
Prerequisites: CSC 211; MTH 123 or MTH 130 or MTH 230 or MTH 231 or MTH 235

CSC 326 Information Structures
Prerequisites: CSC 211 or ENS 336; a knowledge of C programming language

CSC 346 Switching and Automata Theory
Prerequisite: CSC 220

CSC 382 Analysis of Algorithms
Prerequisites: CSC 326 and CSC/MTH 228
Pre- or corequisite: MTH 311

DRA 100 Introduction to Theater
4 hours; 4 credits

Introduction to theater as an art form, which 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, read plays, do small design projects, and see at least one professional theater production. There may be a modest expense for tickets.

DRA 110 Acting I
4 hours; 4 credits

An introductory class in acting built on exercises, which 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

DRA 202 African American Drama
(Also AFA 202)
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 210 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 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 272 Performance Histories (Ancient to Early Modern)
Prerequisite: DRA 140

ENS 336 Computer-Aided Engineering
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. Introduction to programming for parallel processing on a multi-node machine. Theory will be implemented with several projects emphasizing design applications.
Prerequisite: CSC 126

FNC 240/ECO 240 Managerial Finance I
Prerequisite: ECO 101
Pre- or corequisites: ACC 121 and MTH 121 or higher

FNC 300 International Finance/ECO 370 International Finance
FNC 360/ECO 360 Investment Analysis
Prerequisites: FNC/ECO 345 and FNC/ECO 213 or FNC/ECO 214

HON 121 The Arts in New York City
HON 122 The Peopling of New York City
HON 224 Shaping the Future of New York City
HON 206  The Non-Western Experience: Social Sciences (Contemporary World and P&D)

MGT 410  Business Policy
Prerequisites: Completion of the business core requirements BUS 150 or BUS 250 or CSC 102, and junior or senior standing, or permission of the instructor.

MGT 416  Decision Making in Business
Prerequisite: Completion of the business core requirements BUS 150 or BUS 250 or CSC 102

MGT 425  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.
Prerequisites: MGT 110 and (BUS 200 or ECO 250 or ECO 370/FNC 300 and any Contemporary World course)

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, BUS 150 or BUS 250 or CSC 102.

MTH/SLS 218  Fundamentals of Mathematics II
A study of mathematical concepts, designed primarily for students planning to teach at the elementary or early-child level, with an emphasis on mathematical reasoning, problem solving, representation, and communication. Builds on and complements MTH/SLS 217. Topics include geometry, measurement, data representation and analysis, and probability.
Prerequisites: A minimum GPA of 2.75, MTH/SLS 217 with a grade of C or higher.

MUS 243  Musicianship I
Corequisites: MUS 225 and MUS 223

MUS 244  Musicianship II
Prerequisites: MUS 225, MUS 243, and MUS 223
Co-prerequisites: MUS 226 and MUS 224
MUS 323  Keyboard Musicianship III  
Corequisite: **MUS 363**

MUS 325  Keyboard Musicianship IV  
Co-prerequisite: **MUS 364**

MUS 424  Score Analysis  
Prerequisites: **ENG 151; MUS 211 or MUS 212; MUS 322 and MUS 363 and MUS 323**  
Corequisites: **MUS 364 and MUS 325**

NRS 410  Community Health Nursing  
**3 Class hours, 6 Laboratory hours; 6 credits**  
Nursing and public health theories and research are integrated to provide students with knowledge and competencies for holistic nursing care of individuals, families, and communities from culturally diverse backgrounds. Theories and research related to health promotion, health protection, and disease and illness management are applied. Nursing care of “at-risk” populations is emphasized. Skills in mutual collaboration with consumers and interdisciplinary teams are developed.

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. 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.  
Prerequisite: **NRS 320**

PHL 243  Comparative Religion  
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 (Contemporary World and P&D)  
Prerequisites: 100-level course in philosophy or sophomore standing; **ENG 151, COR 100**

PHO 220  Intermediate Photography

PHO 240  Photojournalism  
An in-depth study of 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.

PHY 160  General Physics II  
**Pre- or corequisites:** MTH 232 or MTH 236, and PHY 161
SLS 218/ MTH 218 Fundamentals of Mathematics II
A study of mathematical concepts, designed primarily for students planning to
teach at the elementary or early-child level, with an emphasis on mathematical
reasoning, problem solving, representation, and communication. Builds on and
complements MTH/SLS 217. Topics include geometry, measurement, data representa-
tion and analysis, and probability.
Prerequisites: A minimum GPA of 2.75, MTH/SLS 217 with a grade of C or higher.

SOC 240 Minority Groups
Prerequisites: ENG 151, COR 100

SOC 260 Class, Status, and Power
Prerequisites: ENG 151, COR 100
General Education: Contemporary World

SLS/SOC 325 Social Thought
(Cross-listed SOC/SLS 325)

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 develop-
ment 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.
Prerequisites: A minimum GPA of 2.75, ENG 111, ENG 151, and a 200-level Social Scientific
Analysis Course

**CHANGES IN DEGREE REQUIREMENT (CHANGES SHOWN IN BOLD TYPE)**

**BA IN AMERICAN STUDIES**

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

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

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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 theses 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.

**BS IN ACCOUNTING**

**Pre-Major Requirements (35-38 credits)**

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MGT 110</td>
<td>Organizational Theory and Management</td>
<td>3</td>
</tr>
<tr>
<td>MKT 111</td>
<td>Marketing</td>
<td>3</td>
</tr>
<tr>
<td>FNC/ECO 240</td>
<td>Managerial Finance</td>
<td>3</td>
</tr>
<tr>
<td>ECO 210</td>
<td>Price Theory</td>
<td>4</td>
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<tr>
<td>ECO 212</td>
<td>Income and Employment Theory</td>
<td>4</td>
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<tr>
<td>ACC 114</td>
<td>Introduction to Accounting I</td>
<td>4</td>
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<tr>
<td>ACC 121</td>
<td>Introduction to Accounting II</td>
<td>4</td>
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<tr>
<td>BUS 150</td>
<td>Essential Software Tools for Business</td>
<td>3</td>
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<tr>
<td>CSC 102</td>
<td>Computing for Today</td>
<td>4</td>
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<td>or</td>
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<tr>
<td>BUS 250</td>
<td>Computers in Information Processing</td>
<td>3</td>
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</tbody>
</table>

MGT/ECO 230 Introduction to Economic and Managerial Statistics 4 credits

**Certified Public Accountancy**

Accounting majors who wish to apply for admission to the State examination for public accountancy must complete all courses specified under the accounting concentration and must include the following among the 16 credits of related subjects:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 414</td>
<td>Advanced Accounting</td>
<td>4</td>
</tr>
<tr>
<td>ACC 422</td>
<td>Standards and Procedures of Financial Audits</td>
<td>4</td>
</tr>
</tbody>
</table>

And an additional 30 credits at the graduate level.
BS IN BUSINESS

Pre-Major Requirements (35-38 credits)

MGT 110 Organizational Theory and Management 3 credits
MKT 111 Marketing 3 credits
FNC/ECO 240 Managerial Finance 3 credits
ECO 210 Price Theory 4 credits
ECO 212 Income and Employment Theory 4 credits
ACC 114 Introduction to Accounting I 4 credits
ACC 121 Introduction to Accounting II 4 credits
BUS 150 Essential Software Tools for Business 3 credits
or
CSC 102 Computing for Today 4 credits
or
BUS 250 Computers in Information Processing 3 credits
MGT/ECO 230 Introduction to Economic and Managerial Statistics 4 credits

BS IN BIOLOGY

Department of Biology degree requirements for the BS in Biology for all options (I—Biology; II—Adolescence Education, grades 7-12; III—Bioinformatics): 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.

BS IN BIOINFORMATICS

Option III—Biology/Bioinformatics

General education requirements: same as for Option I as shown above.

Pre-Major Requirements: 20-23 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 three units:
   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
   or
   MTH 235 Accelerated Calculus I 5 credits
MTH 229 Calculus Computer Laboratory 1 credit
C. BIO 272 Biometrics 4 credits
D. CSC 126 Introduction to Computer Science 4 credits

**Major Requirements: 81-82 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/Bioinformatics.

A. **Required Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 205</td>
<td>General Physiology</td>
<td>4</td>
</tr>
<tr>
<td>BIO 312</td>
<td>Genetics</td>
<td>4</td>
</tr>
<tr>
<td>BIO 322</td>
<td>Evolution</td>
<td>4</td>
</tr>
<tr>
<td>BIO 352</td>
<td>Cell Biology</td>
<td>4</td>
</tr>
<tr>
<td>or BIO 360</td>
<td>Ecology</td>
<td>4</td>
</tr>
</tbody>
</table>

B. **All of the following courses:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 326</td>
<td>Introduction to Bioinformatics</td>
<td>3</td>
</tr>
<tr>
<td>BIO 327</td>
<td>Molecular Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIO/CHM 370</td>
<td>Biochemistry I</td>
<td>4</td>
</tr>
<tr>
<td>BIO/CHM 376</td>
<td>Biochemistry II</td>
<td>4</td>
</tr>
<tr>
<td>MTH/BIO 415</td>
<td>Mathematical Biology</td>
<td>4</td>
</tr>
</tbody>
</table>

C. **One advanced six-hour laboratory course from the following:** 3 credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 450</td>
<td>Experimental Methods in Animal Physiology</td>
</tr>
<tr>
<td>BIO 452</td>
<td>Experimental Methods in Behavioral Biology</td>
</tr>
<tr>
<td>BIO 454</td>
<td>Advanced Methods in Cell Biology</td>
</tr>
<tr>
<td>BIO 456</td>
<td>Experimental Methods in Ecology</td>
</tr>
<tr>
<td>BIO 458</td>
<td>Experimental Methods in Cell Biochemistry</td>
</tr>
<tr>
<td>BIO 460</td>
<td>Experimental Methods in Advanced Genetics</td>
</tr>
</tbody>
</table>

D. **One elective from the following:** 3-4 credits

Courses not selected in groups A or C and these additional courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 213</td>
<td>Comparative Vertebrate Anatomy</td>
</tr>
<tr>
<td>BIO 215</td>
<td>Invertebrate Zoology and Paleontology</td>
</tr>
<tr>
<td>BIO 228</td>
<td>Botany</td>
</tr>
<tr>
<td>BIO 240</td>
<td>Biology of Disease</td>
</tr>
<tr>
<td>BIO 314</td>
<td>General Microbiology</td>
</tr>
<tr>
<td>BIO 318</td>
<td>Histology</td>
</tr>
<tr>
<td>BIO 324</td>
<td>Developmental Biology</td>
</tr>
<tr>
<td>BIO 325/MDT</td>
<td>Diagnostic Molecular Biology</td>
</tr>
<tr>
<td>BIO 332</td>
<td>Advanced Physiology</td>
</tr>
<tr>
<td>BIO 338</td>
<td>Behavioral Biology</td>
</tr>
<tr>
<td>BIO 365</td>
<td>Principles of Neurobiology</td>
</tr>
<tr>
<td>BIO 372</td>
<td>Cell Biochemistry</td>
</tr>
</tbody>
</table>
**BIO 428 Plant Physiology**
**BIO 442 Immunology**

E. Required related science courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 211</td>
<td>Intermediate Programming</td>
<td>4 credits</td>
</tr>
<tr>
<td>CSC 228</td>
<td>Discrete Mathematical Structures</td>
<td>4 credits</td>
</tr>
<tr>
<td>CSC 326</td>
<td>Information Structures</td>
<td>4 credits</td>
</tr>
<tr>
<td>CSC 424</td>
<td>Database Management</td>
<td>4 credits</td>
</tr>
<tr>
<td>PHY 116</td>
<td>Physics I</td>
<td></td>
</tr>
<tr>
<td>PHY 156</td>
<td>Physics II</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(with appropriate mathematics background)</td>
<td></td>
</tr>
<tr>
<td>PHY 120</td>
<td>General Physics I</td>
<td></td>
</tr>
<tr>
<td>PHY 121</td>
<td>General Physics I Laboratory</td>
<td></td>
</tr>
<tr>
<td>PHY 160</td>
<td>General Physics II</td>
<td></td>
</tr>
<tr>
<td>PHY 161</td>
<td>General Physics II Laboratory</td>
<td>8 credits</td>
</tr>
<tr>
<td>CHM 141</td>
<td>General Chemistry I</td>
<td>3 credits</td>
</tr>
<tr>
<td>CHM 121</td>
<td>General Chemistry I Lab</td>
<td>1 credit</td>
</tr>
<tr>
<td>CHM 142</td>
<td>General Chemistry II</td>
<td>3 credits</td>
</tr>
<tr>
<td>CHM 127</td>
<td>General Chemistry II Lab</td>
<td>1 credit</td>
</tr>
<tr>
<td>CHM 250</td>
<td>Organic Chemistry I</td>
<td>4 credits</td>
</tr>
<tr>
<td>CHM 256</td>
<td>Organic Chemistry II</td>
<td>4 credits</td>
</tr>
</tbody>
</table>

**Electives: 0-5 credits**

**Total Credits Required: 128**

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**AAS IN COMPUTER SCIENCE**

**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.

**General Education Requirements**

**ENG 111, ENG 151, COR 100, PED 190: 12 credits**

Whenever possible, these four courses should be completed within the first 36 credits.

**Scientific Analysis; Social Scientific Analysis; The Contemporary World; Textual, Aesthetic, and Linguistic Analysis: 15 credits**

1. **Scientific Analysis**

A one-year, eight-credit sequence of laboratory science (8 credits)

2. **At least one course from two of the following groups:**

   Social Scientific Analysis; The Contemporary World; Textual, Aesthetic, and Linguistic Analysis (7 credits)
See section on general education requirements for approved course lists and complete details.

**Pre-Core Requirement: 4 credits**

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.

**Programming Sequence**

**Core Requirements: 29 credits**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 210</td>
<td>Applications Programming</td>
<td>4 credits</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSC 332</td>
<td>Operating Systems I</td>
<td>4 credits</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>CSC 211</strong></td>
<td><strong>Intermediate Programming</strong></td>
<td>4 credits</td>
</tr>
<tr>
<td>CSC 220</td>
<td>Computers and Programming</td>
<td>4 credits</td>
</tr>
<tr>
<td>CSC/MTH 228</td>
<td>Discrete Mathematical Structures</td>
<td>4 credits</td>
</tr>
<tr>
<td>CSC 326</td>
<td>Information Structures</td>
<td>4 credits</td>
</tr>
<tr>
<td>CSC 330</td>
<td>Object-Oriented Software Design</td>
<td>4 credits</td>
</tr>
<tr>
<td>MTH 229</td>
<td>Calculus Computer Laboratory</td>
<td>1 credit</td>
</tr>
<tr>
<td>MTH 231</td>
<td>Analytic Geometry and Calculus I</td>
<td>4 credits</td>
</tr>
</tbody>
</table>

**Information Science**

**Core Requirements: 26 credits**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKT 111</td>
<td>Marketing</td>
<td>3 credits</td>
</tr>
<tr>
<td>MGT 110</td>
<td>Organizational Theory and Management</td>
<td>3 credits</td>
</tr>
<tr>
<td>CSC 210</td>
<td>Applications Programming</td>
<td>4 credits</td>
</tr>
<tr>
<td><strong>CSC 211</strong></td>
<td><strong>Intermediate Programming</strong></td>
<td>4 credits</td>
</tr>
<tr>
<td>CSC 326</td>
<td>Information Structures</td>
<td>4 credits</td>
</tr>
<tr>
<td><strong>CSC 334</strong></td>
<td><strong>Computer System Fundamentals</strong></td>
<td>4 credits</td>
</tr>
<tr>
<td>MTH 229</td>
<td>Calculus Computer Laboratory</td>
<td>1 credit</td>
</tr>
<tr>
<td>MTH 231</td>
<td>Analytic Geometry and Calculus I</td>
<td>3 credits</td>
</tr>
</tbody>
</table>

Electives: 3 credits

**Total Credits Required: 60**

**BS IN COMPUTER SCIENCE**

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 adviser, 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. The program in Computer Science is accredited by the Computer Science Accreditation
Commission (CSAC) of the Computing Sciences Accreditation Board (CSAB), a specialized accrediting body recognized by the Council for Higher Education Accreditation (CHEA).

**General Education Requirements for the BS: 41 credits**

**ENG 111, ENG 151, COR 100, PED 190: 12 credits**

Whenever possible, these four courses should be completed within the first 36 credits.

**Scientific Analysis; Social Scientific Analysis; The Contemporary World; Textual, Aesthetic, and Linguistic Analysis; Pluralism and Diversity requirements: 29 credits**

Whenever possible, these courses should be completed within the first 60 credits.

1. **Scientific Analysis: (11 credits)**
   a. **Science and Technology: (8 credits)**
      A one-year science sequence chosen from the list of courses below:
      - AST 120  Space Science I
      - AST 160  Space Science II
      - BIO 170/171 General Biology I/Laboratory
      - BIO 180/181 General Biology II/Laboratory
      - CHM 141/121 General Chemistry I/Laboratory
      - CHM 142/127 General Chemistry II/Laboratory
      - PHY 120/121 General Physics I/Laboratory
      - PHY 160/161 General Physics II/Laboratory
   b. **Mathematics: (3 credits)***
      *Fulfilled in the pre-major requirements

2. **Social Scientific Analysis: (3-4 credits)**

3. **The Contemporary World: (4 credits)**

4. **Textual, Aesthetic, and Linguistic Analysis: (3-4 credits)**
   a. **Literature: 200-level**
   b. **Arts and Communications: 100-level**
   c. **Arts and Communications: 200-level**

5. **Pluralism and Diversity Requirement: (0-4 credits)**

6. **Plus an additional 2-8 credits in the general education requirements to complete a total of 30 credits that are not scientific analysis courses.**

See section on general education requirements for approved course lists and complete details.

**Pre-Computer Science Sequence: 4 credits**

**CSC 126 Introduction to Computer Science 4 credits**

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: 22-25 credits**

**MTH 229 Calculus Computer Laboratory**

**MTH 230 Calculus I with Pre-Calculus**

**MTH 232 Analytic Geometry and Calculus II**

**MTH 233 Analytic Geometry and Calculus III**
or
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 II
or
MTH 229 Calculus Computer Laboratory
MTH 235 Accelerated Calculus I
MTH 236 Accelerated Calculus II (10-13 credits)
CSC 220 Computers and Programming (4 credits)

CSC 211 Intermediate Programming (4 credits)
Four additional credits of science courses chosen from the Scientific Analysis category list of courses that provide the foundation for further study in the sciences or chosen from courses with these Scientific Analysis courses as prerequisites. (4 credits)

Major Requirements: 56 credits
Students majoring in Computer Science must complete:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC/MTH 228</td>
<td>Discrete Mathematical Structures</td>
<td>4 credits</td>
</tr>
<tr>
<td>CSC 326</td>
<td>Information Structures</td>
<td>4 credits</td>
</tr>
<tr>
<td>CSC 330</td>
<td>Object-Oriented Software Design</td>
<td>4 credits</td>
</tr>
<tr>
<td>CSC 332</td>
<td>Operating Systems I</td>
<td>4 credits</td>
</tr>
<tr>
<td>CSC/ENS 346</td>
<td>Switching and Automata Theory</td>
<td>4 credits</td>
</tr>
<tr>
<td>CSC 347</td>
<td>Computer Circuits Laboratory</td>
<td>2 credits</td>
</tr>
<tr>
<td>CSC 382</td>
<td>Analysis of Algorithms</td>
<td>4 credits</td>
</tr>
<tr>
<td>CSC 430</td>
<td>Software Engineering</td>
<td>4 credits</td>
</tr>
<tr>
<td>CSC 446</td>
<td>Computer Architecture</td>
<td>4 credits</td>
</tr>
<tr>
<td>CSC 490</td>
<td>Seminar in Computer Science</td>
<td>2 credits</td>
</tr>
<tr>
<td>MTH 311</td>
<td>Probability Theory and an Introduction to Mathematical Statistics</td>
<td>4 credits</td>
</tr>
<tr>
<td>MTH 338</td>
<td>Linear Algebra</td>
<td>4 credits</td>
</tr>
</tbody>
</table>

Three courses chosen from the following, at least two of which must be a Computer Science course:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 420</td>
<td>Concepts of Programming Languages</td>
<td>4 credits</td>
</tr>
<tr>
<td>CSC 421</td>
<td>Internet Data Communications and Security</td>
<td>4 credits</td>
</tr>
<tr>
<td>CSC 424</td>
<td>Database Management Systems</td>
<td>4 credits</td>
</tr>
<tr>
<td>CSC 432</td>
<td>Operating Systems II</td>
<td>4 credits</td>
</tr>
<tr>
<td>CSC 434</td>
<td>Compiler Construction</td>
<td>4 credits</td>
</tr>
<tr>
<td>CSC 435</td>
<td>Advanced Data Communications</td>
<td>4 credits</td>
</tr>
<tr>
<td>CSC/ENS 462</td>
<td>Microprocessors</td>
<td>4 credits</td>
</tr>
<tr>
<td>CSC 470</td>
<td>Introductory Computer Graphics</td>
<td>4 credits</td>
</tr>
<tr>
<td>CSC 480</td>
<td>Artificial Intelligence</td>
<td>4 credits</td>
</tr>
<tr>
<td>CSC 482</td>
<td>Discrete Simulation</td>
<td>4 credits</td>
</tr>
</tbody>
</table>
CSC 484  Theory of Computation  4 credits
CSC/MTH 335  Numerical Analysis  4 credits
MTH 337  Applied Combinatorics and Graph Theory  4 credits
MTH 339  Applied Algebra  4 credits
MTH 350  Mathematical Logic  4 credits
MTH 370  Operations Research  4 credits
MTH 410  Statistics  4 credits
A grade of C or above in all CS courses that are prerequisites for courses in the Major Requirements.
Students will be allowed to repeat courses, if necessary.

**Electives: 0–4 credits**

**Total Credits Required: 124**

**Computer Science**

**Minor**

Prerequisites or corequisites: MTH 123 and

<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>CSC 220</td>
<td>Computers and Programming</td>
<td>4</td>
</tr>
<tr>
<td><strong>CSC 211</strong></td>
<td>Intermediate Programming</td>
<td><strong>4</strong></td>
</tr>
</tbody>
</table>

**Requirements:**

Computer Science minor requirements can be met by completion of any one of the following sequences:

1. Computer Science minor sequence for students with an interest in computer engineering:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC/MTH 228</td>
<td>Discrete Mathematical Structures</td>
<td>4</td>
</tr>
<tr>
<td>CSC 326</td>
<td>Information Structures</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>and two course chosen from the following list: 8 credits</td>
<td></td>
</tr>
<tr>
<td>CSC 332</td>
<td>Operating Systems I</td>
<td>4</td>
</tr>
<tr>
<td>CSC 435</td>
<td>Advanced Data Communications</td>
<td>4</td>
</tr>
<tr>
<td>CSC 446</td>
<td>Computer Architecture</td>
<td>4</td>
</tr>
</tbody>
</table>

2. Computer Science minor sequence for students with an interest in applications programming:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 326</td>
<td>Information Structures</td>
<td>4</td>
</tr>
<tr>
<td>CSC 330</td>
<td>Object-Oriented Software Design</td>
<td>4</td>
</tr>
<tr>
<td>CSC 424</td>
<td>Database Management Systems</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>and one course chosen from the following list: 4 credits</td>
<td></td>
</tr>
<tr>
<td>CSC 332</td>
<td>Operating Systems I</td>
<td>4</td>
</tr>
<tr>
<td>CSC 420</td>
<td>Concepts of Programming Languages</td>
<td>4</td>
</tr>
<tr>
<td>CSC 430</td>
<td>Software Engineering</td>
<td></td>
</tr>
<tr>
<td>CSC 435</td>
<td>Advanced Data Communications</td>
<td></td>
</tr>
<tr>
<td>CSC 470</td>
<td>Introductory Computer Graphics</td>
<td></td>
</tr>
<tr>
<td>CSC 480</td>
<td>Artificial Intelligence</td>
<td></td>
</tr>
</tbody>
</table>
BS IN COMPUTER SCIENCE-MATHEMATICS

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.

General Education Requirements for the BS

ENG 111, ENG 151, COR 100, PED 190: 12 credits
Whenever possible, these four courses should be completed within the first 36 credits.

Scientific Analysis; Social Scientific Analysis; The Contemporary World; Textual, Aesthetic, and Linguistic Analysis; Pluralism and Diversity requirements: 21-27 credits

General education requirements are the same as for other BS degrees.

Pre-Computer Science Sequence: 4 credits
CSC 126 Introduction to Computer Science
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: 22-25 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: 10-13 credits
MTH 230 Calculus I with Pre-Calculus
MTH 232 Analytic Geometry and Calculus II
MTH 233 Analytic Geometry and Calculus III
MTH 229 Calculus Computer Laboratory
or
MTH 231 Analytic Geometry and Calculus I
MTH 232 Analytic Geometry and Calculus II
MTH 233 Analytic Geometry and Calculus III
MTH 229 Calculus Computer Laboratory
or
MTH 235 Accelerated Calculus I
MTH 236 Accelerated Calculus II
MTH 229 Calculus Computer Laboratory
CSC 220 Computers and Programming 4 credits
CSC 211 Intermediate Programming 4 credits

Major Requirements: 52 credits
MTH/CSC 228 Discrete Mathematical Structures 4 credits
Computer Science: 24 credits
CSC 326 Information Structures 4 credits
CSC 330 Systems Programming: Concepts of Software Design 4 credits
CSC 346  Switching and Automata Theory  4 credits
CSC 382  Analysis of Algorithms  4 credits
CSC 420  Concepts of Programming Languages  4 credits
Any one from the following group of advanced computer courses:
CSC 424  Database Management Systems
CSC 480  Artificial Intelligence
CSC 482  Discrete Simulation  4 credits
Mathematics: 24 credits
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:
MTH 330  Applied Mathematical Analysis I
MTH 337  Applied Combinatorics and Graph Theory
MTH 341  Advanced Calculus I
MTH 350  Mathematical Logic
MTH 370  Operations Research
MTH 410  Mathematical Statistics I  8 credits

Electives: 9 credits
Total Credits Required: 120

BS IN DRAMA

Department of Performing and Creative Arts
Chair: Dr. Sylvia Kahan, The Center for the Arts (1P), Room 203
Drama Program Coordinator: Dr. Maurya Wickstrom, The Center for the Arts (1P), Room 203

This is a liberal arts Drama major. Students will acquire an interdisciplinary education while simultaneously developing competence in the history, literature, theory, and practice of theater, performance studies, and performance art. The program is especially designed to introduce students not only to traditional acting but to a broad range of performance practices and their many social and professional applications. These include the development of skills in collaboration, creativity, and self-presentation that are valuable in any profession. Students will have the opportunity to participate in faculty and student productions and, with faculty approval, to initiate their own performance/theater projects.

All courses will include both artistic and academic work. All courses require attendance at theater and performance events in Manhattan and Brooklyn. All prospective Drama majors should request an academic advisor from the drama faculty, and should expect to work with this advisor to maintain a record of academic excellence.
General education requirements—No Change

Pre-Major Requirement: 4 credits
- DRA 110 Acting I 4 credits

Major Requirements: 44 Credits
- DRA 140 Theater Studies 4 credits
- DRA 141 Theater Production 3 credits
- DRA 142 Theater Production Lab I 1 credit
- DRA 221 Topics on Productions 4 credits
- DRA 210 Acting II 4 credits

Two courses chosen from:
- DRA 272 Performance Histories (Ancient to Early Modern) 4 credits
- DRA 273 Performance Histories (1600-1900) 4 credits
- DRA 274 Performance Histories (1901-Present) 4 credits

Three courses chosen from:
- DRA 315 Theater and Education I 4 credits
- DRA 375 New Performance 4 credits
- DRA 350 Theater for Social Action 4 credits
- DRA 352 Theater and Therapy 4 credits
- DRA 373 The Theatrical Imagination 4 credits
- DRA 380 Women in Performance 4 credits

One course chosen from:
- DRA 217/217 Voice and Diction for Performance and Communication 4 credits
- DRA 331 Design for the Theater 4 credits
- DRA 321 Directing 4 credits

One course chosen from:
- DRA/ENL 355 Modern European Drama 4 credits
- DRA/ENL 361 The Early Shakespeare 4 credits
- DRA/ENL 362 The Later Shakespeare 4 credits

Electives: 17-25 credits

Total Credits Required: 120

Honors
To graduate with Honors in Dramatic Arts a student must have a 3.5 grade point average and must earn an A on a junior or senior project.

Minor
Prerequisite Course: 4 credits
- DRA 110 Acting
Minor Requirements: 15 credits
Courses may be chosen from DRA 140, 141, 142, 210; Topics on Production; Performance Histories (Ancient to Early Modern, 1600-1900, 1901-Present); New Performance; Theater for Social Action; Theater and Therapy; The Theatrical Imagination; Voice and Diction; Design, Directing; and one ENL course from list above.

Total Credits Required for the Minor: 19

BA IN INTERNATIONAL STUDIES

Honors
To graduate with Honors a student must have a minimum of a 3.5 grade point average in courses in the major and an Honors thesis must be completed under the supervision of the International Studies coordinator in consultation with the members of the International Studies Advisory committee.

BS IN MATHEMATICS

General education requirements for BS
1. Scientific Analysis: (11 credits)
   a. Science and Technology: (8 credits)
   Two courses with laboratories chosen from one of the following sequences:
   BIO 170-171, 180-181 General Biology I and II with laboratories
   CHM 141-121, 142-127 General Chemistry I and II with laboratories
   PHY 120-121, 160-161 General Physics I and II with laboratories
   GEO 100-101, 102-103 Physical and Historical Geology with laboratories
   AST 100-101, 102-103 Contemporary Theories of the Solar System (with planetary laboratory) and of the Universe (with galactic laboratory)
   AST 120-160 Space Science I and II with laboratories

BA IN MUSIC

Core courses: (35 credits)
MUS 322 Counterpoint 3 credits
MUS 323 Keyboard Musicianship III 1 credit

AAS IN NURSING

Prerequisite Courses: 13 credits
   BIO 150 Human Anatomy and Physiology I
   ENG 111 Communications Workshop
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 MTH 108, Biology sequence, English, and/or PED 190. Students should consult with a Nursing advisor to assist with appropriate course selection.

Students must have a minimum cumulative average of 2.5 in the prerequisite courses with a minimum grade of C in Biology 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 a previous school(s), are not eligible for admission to Nursing at the College of Staten Island.

BS IN NURSING

Applicants to the BS degree program in Nursing must be graduates of a nursing program from an accredited degree-granting associate degree program, 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 2.0 cumulative grade point average and at least a 2.0 in all nursing courses taken prior to application. Deadlines for application and supporting documentation are April 1 for the fall semester and November 1 for the spring semester. Applications for admission are available in the Office of Recruitment and Admissions.

Criteria for Progression to 400-level courses:
1. Current New York State Licensure as a Registered Professional Nurse.
2. Completion of the pre-major requirements, either by examination or completion of the appropriate courses. A maximum of 25 nursing credits are applied toward the BS in Nursing.

Major Requirements: 52 credits

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CHM 116  Principles of Chemistry II  3 credits
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MTH 113  Introduction to Probability and Statistics with Computer Applications  3 credits
PHY 114  Introduction to Physics  4 credits
NRS 303  Seminar in Professional Development  3 credits
NRS 310  Interpersonal Dynamics for Professional Nurses  3 credits
NRS 320  Health Assessment and Physical Examination  3 credits
NRS 321  Introduction to Research In Nursing  3 credits
NRS 410  Community Health Nursing  6 credits
NRS 411  Leadership in the Management  6 credits
NRS 423  Issues in Health Care and Professional Nursing  3 credits

Nursing electives: 6 credits
Electives: 0-1 credits
Total Credits Required: 120

BS IN PHYSICS

General education requirements for the BS: 12 credits
Whenever possible, these four courses should be completed within the first 36 credits.

Scientific Analysis; Social Scientific Analysis; The Contemporary World; Textual, Aesthetic, and Linguistic Analysis; Pluralism and Diversity requirements: 21-27 credits
Whenever possible, these courses should be completed within the first 60 credits.
1. Scientific Analysis: (11 credits)*
   Science and Technology: (8 credits)
   Mathematics: (3 credits)
*Fulfilled in the pre-major requirements.
2. Social Scientific Analysis: (3-4 credits)
3. The Contemporary World: (4 credits)
4. Textual, Aesthetic, and Linguistic Analysis: (3-4 credits)
5. Pluralism and Diversity Requirement: (0-4 credits)
See section on general education requirements for approved course lists and complete details.

Pre-Major Requirements: 32 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.
PHY120  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
PHY 240  Waves and Modern Physics  3 credits
PHY 250  Engineering Mechanics  3 credits
MTH 229  Calculus Computer Laboratory
MTH 230  Calculus I with Pre-Calculus
or
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  10 credits
CHM 141  General Chemistry I  3 credits
CHM 121  General Chemistry I Laboratory  1 credit
CHM 142  General Chemistry II  3 credits
CHM 122  General Chemistry II Laboratory  1 credit

Major Requirements: 48
CSC 126  Introduction to Computer Science  4 credits
MTH 330  Applied Mathematical Analysis I  4 credits
MTH 311  Probability Theory and an Introduction to Mathematical Statistics
or
MTH 331  Applied Mathematical Analysis II  4 credits
PHY 310  Thermodynamics  4 credits
PHY 316  Dynamics  4 credits
PHY 356  Theory of Electromagnetic Radiation  4 credits
PHY 485  Properties of Materials  4 credits
PHY 309  Basic Measurements Laboratory  2 credits
PHY 315  Advanced Physics Laboratory  2 credits
PHY 442  Quantum Mechanics  4 credits
One advanced mathematics course at the 300 or 400 level  4 credits
Two advanced physics courses at the 300 or 400 level  8 credits
Either PHY 318 or PHY 381, but not both, may be used to satisfy this requirement.

Electives: 12-18 credits
Total Credits Required: 120

BA IN PSYCHOLOGY
Pre-Major Requirements: 3 credits
PSY 100  Intro to Psychology
Major Requirements: 38 credits
Psychology majors must complete:

A.  
   PSY 201  Foundtns of Psych Research  4 credits  
   PSY 266  Statistics in Psychology  4 credits  
   PSY 352  History and Systems of Psyc  4 credits  

And **one** Psychology laboratory chosen from:  
   PSY 330  Experimental Psychology:  
           Cognition and Perception  6 credits  

or  
   PSY 333  Experimental Psychology:

32A
Learning and Behavior 6 credits
or PSY 334 Experimental Psychology:
Social and Personality 6 credits
or
PSY 335 Experimental Psychology: Developmental 6 credits
B. 20 additional credits in psychology at the 200-level or higher. These additional 20 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.
Electives: 39

BA IN SCIENCE, LETTERS, AND SOCIETY (SLS):
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.

Submission of Honors project to SLS Honors committee is required. 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.
NEW GRADING OPTION

Effective fall 2006, undergraduate matriculated students of the College of Staten Island have the option to elect a pass/fail grade with the following restrictions:

- Students may not elect the pass/fail option for any courses satisfying general education, pre-major, major, minor, or certification requirements.
- Academic departments may exclude additional courses and may prohibit pass/fail courses from being used as prerequisites for degree requirements.
- 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.
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