

YORK COLLEGE

THE CITY UNIVERSITY OF NEW YORK



MONDAY TO FRIDAY
8:30 AM – 5:30 PM
(718) 262-2000

ALL OTHER TIMES
(718) 262-2222

94-20 Guy R. Brewer Boulevard
Jamaica, New York 11451
www.york.cuny.edu

York College Vision

York College is committed to academic excellence through teaching and learning, research and scholarship. It envisions service to a student body which reflects the unparalleled cultural diversity and richness of Queens and the New York metropolitan area and to the communities in which they live. It seeks to develop habits of inquiry and communication that promote these ideals of intellectual and personal growth by embodying them in human relations within the College.

York College Mission

As a senior college of The City University of New York, York College is committed to the University mission of “teaching, research, and public service” responsive to “the special needs of an urban constituency.” The College is a student-centered institution whose mission is to prepare students to:

- Succeed in a chosen discipline
- Acquire basic knowledge in the humanities, behavioral and natural sciences, and mathematics
- Think, speak and write clearly, critically and effectively
- Develop technological literacy and skill
- Seek objectivity and shun bias
- Esteem research and scholarship for life-long learning
- Understand and appreciate culture and cultural diversity
- Value ethical attitudes and behavior
- Promote knowledge of health and pursue wellness
- Engage in public service
- Enrich their communitie, the nation, and the world



The College offers baccalaureate degrees in liberal arts and in a variety of professional programs such as accounting, business, computer studies, education, health, and social work. It maximizes each student's intellectual, professional, and personal growth by integrating studies in liberal arts and sciences, professions, knowledge of diverse cultures, and technology. It meets changing social and intellectual needs by developing undergraduate and graduate programs from its established academic strengths. The College aims to graduate students poised to meet new demands and provide leadership for human progress.

The College supports the professional growth of its faculty and staff and serves as a resource for continued advancement of the broader community. It calls upon all members of the York community to commit themselves to scholarship and learning, respect for individuals and individual differences, just and fair treatment of others, open and direct communication, ethical behavior, and involvement in the life of the College.

York College

Fall 2003 Calendar

Monday - Friday	August 25 - 29	Registration.
Friday	August 29	Last day for non-matriculated students to apply for matriculation for the Fall 2003 semester. Last day for 100% refund. (See the heading titled 'Refunds' for additional information.)
Saturday	August 30	First day of classes.
Monday	September 1	Labor Day - College is closed.
Tuesday - Friday	September 2 - 5	*Late Registration and Program Changes.
Friday	September 5	*Last day for 75% refund.
Friday	September 12	*Last day for 50% refund.
Friday	September 19	*Last day for 25% refund. *Last day to withdraw from a course(s) WITHOUT a "W" grade. Last day for "ABS" grade changes for the Spring 2003 to be received at the Office of the Registrar.
Friday - Sunday	September 26 - 28	No classes.
Friday	October 3	Last day to file for February 2004 Graduation.
Monday	October 6	No classes.
Tuesday	October 7	Classes will follow a Monday schedule.
Monday	October 13	College is closed.
Friday	November 7	*Last day to withdraw from a course(s) WITH a "W" grade. Last day to elect a Pass/Fail Option. Last day for "INC" grade changes for Spring 2003 to be received at the Office of the Registrar.
Wednesday	November 26	Classes will follow a Friday schedule.
Thursday - Sunday	November 27 -30	Thanksgiving - College is closed.
Monday	December 15	Last day of classes. Last day to rescind a Pass/Fail Option.
Tuesday	December 16	Reading Day - No classes.
Wednesday - Tuesday	December 17 - 23	Finals.
Wednesday - Thursday	December 24 - 25	College is closed.
Wednesday - Thursday	December 31 - January 1	College is closed.
Friday	January 9	Last day for all grades, transcripts and documents for February 2004 Graduation to be received at the Office of the Registrar.

*You may still be liable for tuition.

COLLEGE FACILITIES - HOURS OF OPERATION

College facilities have designated hours of operation for reasons of security and fire safety as well as to control costs of light, heat, ventilation, air conditioning and cleaning. College policy is for facilities to be closed after the end of official programs, i.e., classes, library and special events. See York College Bulletin for specific hours of operation.

Rev. 8/03

York College Spring 2004 Calendar

Monday	January 19	Martin Luther King, Jr. Day - College is closed.
Thurs., Fri., Mon. - Wed.	January 22, 23, 26 - 28	Registration.
Wednesday	January 28	Last day for non-matriculated students to apply for matriculation for the Spring 2004 semester. Last day to receive 100% refund.
Thursday	January 29	First day of classes.
Thursday - Wednesday	Jan. 29 - Feb. 4	*Late Registration and Program Changes.
Wednesday	February 4	*Last day to receive 75% refund.
Wednesday	February 11	*Last day to receive 50% refund.
Thursday	February 12	Lincoln's Birthday - College is closed.
Monday	February 16	Presidents' Day - College is closed.
Wednesday	February 18	Classes will follow a Monday schedule. *Last day to receive 25% refund. *Last day to withdraw from a course(s) WITHOUT a "W" grade. Last day for 'ABS' grade changes for Fall 2003 to be received at the Office of the Registrar.
Friday	February 27	Last day to file for June 2004 Graduation.
Friday - Tuesday	April 2 - 13	Spring Recess.
Wednesday	April 21	*Last day to withdraw from a course(s) WITH a "W" grade. Last day to elect a Pass/Fail Option. Last day for 'INC' grade changes for Fall 2003 to be received at the Office of the Registrar.
Wednesday	May 19	Last day of classes. Last day to rescind a Pass/Fail Option.
Thursday	May 20	Reading Day - No classes.
Friday - Thursday	May 21 - 27	Finals.
Monday	May 31	Memorial Day - College is closed.
Friday	June 4	Commencement.

*You may still be liable for tuition.

COLLEGE FACILITIES - HOURS OF OPERATION

College facilities have designated hours of operation for reasons of security and fire safety as well as to control costs of light, heat, ventilation, air conditioning and cleaning. College policy is for facilities to be closed after the end of official programs, i.e., classes, library and special events.

See York College Bulletin for specific hours of operation.

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IMPORTANT NOTICE OF POSSIBLE CHANGES: *The City University of New York reserves the right, because of changing conditions, to make modifications of any nature in the academic programs and requirements of the University and its constituent colleges without advance notice. Tuition and fees set forth in this publication are similarly subject to change by the Board of Trustees of The City University of New York. The University regrets any inconvenience this may cause.*



RANDY FADER-SMITH

History of York College

The Free Academy was established in 1847 to provide free higher education in the City of New York. The original Free Academy building was constructed in 1849 and demolished in 1927. In 1961, The City University of New York which incorporated the Free Academy and other units under the then Board of Higher Education was established.

Today the Board of Trustees is the governing entity for The City University of New York, the largest city university system in the world. It comprises nine senior colleges, of which York is one, seven community colleges, one technical college, a graduate school, a law school, a medical school, and an affiliated school of medicine. More than 200,000 students are enrolled at campuses throughout the five boroughs of the City of New York.

On October 24, 1966, "Alpha College" was established by the Board of Higher Education of The City University of New York, as its fifth senior college. Its name was changed to York College by its first president, Dumont Kenny.

York opened its doors in the fall of 1967 in rented space at the Oakland Jewish Center in Bayside, Queens. An entering class of 371 students and a full-time instructional staff of 50 occupied that site for the first academic year. In May of 1968 the Board determined the permanent location of the College after hearing presentations from representatives of various communities in Queens. The successful petitioners were a coalition of business, community and religious leaders who were advocates for Jamaica, Queens.

While the College awaited its move to Jamaica, it relocated to temporary quarters on the campus of Queensborough Community College, also in Bayside. In September 1971, after holding classes there for three academic years, the College moved into a combination of rented and purchased properties in Jamaica. At the same time, Milton G. Bassin began his twenty-year tenure as president. Over the next decade, the College underwent expansive curricular development. While maintaining a liberal arts emphasis, career related majors in the health professions and business were instituted. The Office of Continuing Education opened and began addressing the needs of the Jamaica community. In the mid-seventies, New York City's fiscal crisis placed a veil of uncertainty over York's future. However, in May of 1978, the Board of Higher Education assured the permanence of York College in a resolution which affirmed its construction and mandated its development as a center for the health and business professions in a cooperative education mode, in addition to the liberal arts.

Governor Hugh Carey approved the construction of the core campus and in December of 1980 participated in the ground breaking ceremony. In September of 1986 the College held classes for the first time in its Academic Core. At that time the student enrollment was 4,276, the number of faculty was 173 and the College offered 43 bachelor of arts and bachelor of science programs. In September of 1990 the Performing Arts Center and Health and Physical Education facilities were opened, followed a year later by the athletic fields.

York College Today

Today, York College provides a broad baccalaureate curriculum with emphasis on the liberal arts and sciences, business, health, and cooperative education. Conferring B.A. and B.S. degrees in more than 40 majors, York College offers a number of special programs. Among the liberal arts and science programs is a major in Spanish language and literature with an emphasis on the Caribbean and Latin America; an English major in Journalism with a field-work component; a Biotechnology major; a federal grant supported program to promote minority science; a major in African-American Studies; a very popular Psychology major; and a minor in Women's Studies. Among the professional programs is a major in Information Systems Management combining Business and Computer Studies; Health Sciences majors in Occupational Therapy, Medical Technology, and Environmental Health Science and an upper division Nursing Program; majors in Community Health and in Gerontological Studies and Services; a Teacher Education program leading to New York City and State Certification; and pre-medical, pre-law, pre-dental, and pre-engineering curricula.

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Organization and Governance

Faculty, students, and administrative staff participate in College governance, which is conducted according to procedures outlined in the By-Laws of The City University of New York and in the York College Charter as approved by the Board of Trustees of The City University of New York. The York College Senate is the chief legislative body of the College. Reporting to the Senate are various standing college committees which oversee such matters as curriculum and academic standards.

Accreditation

York is accredited by the *Middle States Association of Colleges and Schools* and is a member of the *Association of Colleges and Universities of the State of New York* and of the *American Association of Colleges for Teacher Education*. All Education programs are registered by the *New York State Department of Education* and lead to New York State provisional certification after the written parts of the New York State Teacher Certification Examination are passed. York's *Occupational Therapy Program* is accredited by the *Accreditation Council for Occupational Therapy Education (ACOTE)* of the *American Occupational Therapy Association (AOTA)*; York's *Social Work program* is accredited by the *Council on Social Work Education*; and the *Nursing Program* by the *National League for Nursing*. A degree in Accounting at York College includes all the educational requirements to sit for the Uniform Certified Public Accounting Examination.

Graduation Rate

Since 1971, York College has conferred more than 12,000 bachelors degrees. York students progress towards graduation at different



rates. Most students combine the role of student with that of employee and/or parent which may necessitate part time enrollment or temporary leaves from their academic pursuits. Some York students come to college with deficiencies which also impact on the time necessary to complete a degree. Of the students who began York as full time students in the Fall of 1989, by Fall 1995, 17% had received their baccalaureate degrees from York; 4% received degrees from another CUNY college; and 17% were still enrolled at York or another CUNY college. A total of 38% have received their degrees or are still working toward their degree within The City University.

Location and Facilities

The 50 acre York College Campus is divided into six superblocks by public streets. At the heart of the campus is located the Academic Core, which houses classrooms, lecture halls, laboratories, art studios, library, computer facilities, academic and administrative offices, as well as dining facilities and a bookstore. On adjacent superblocks are located the 1,500 seat Auditorium/185 seat Theater Building, the Health and Physical Education facility, which includes a gymnasium and swimming pool, Classroom and Science Buildings, Athletic Fields and parking facilities. An undeveloped superblock is slated for a Student Counseling Services Building in the future.



Admissions

The Office of Admissions provides information about York College's educational program to high schools, community colleges, agencies and any other group or individual requesting such information. The staff visits high schools and community colleges, attends college nights, participates in career days, and offers individual and group counseling regarding college choice. The Office of Admissions extends an open invitation to individuals and groups to visit York College and speak with the Admissions staff.

Admission Applications

Applications for all programs at York College are readily available at the Office of Admissions. Feel free to call, write, or visit:

York College, The City University of New York
Office of Admissions, Room 1B07
94-20 Guy R. Brewer Boulevard
Jamaica, New York 11451
Telephone: (718) 262-2165 Fax: (718) 262-2601
Web: <http://www.york.cuny.edu>

Programs with Special Admissions Requirements

Admissions to these programs are restricted. Students interested in any of these programs should contact the director or coordinator of the program. Students must complete a sequence of specified courses, maintain a competitive GPA, and meet other pre-clinical criteria before advancing to the upper division and clinical phase of these programs:

- Education
- Nursing
- Environmental Health Science
- Occupational Therapy
- Medical Technology
- Social Work

A description of each program and criteria for admission can be found in this bulletin under the program title.

Immunization Requirement

In compliance with New York State Public Health Law 2165, it is the policy of CUNY that all students born *after* December 31, 1956 are *required* to submit proof of two immunizations for measles and proof of immunization for mumps and rubella to be in attendance at the University.

Following is the procedure for enforcement of the University policy at York College:

1. In order to begin the process of registration, students must be in partial compliance; that is, students must provide proof of at least the first measles, mumps and rubella vaccinations, and must have a doctor's appointment for the second measles vaccination.
2. Students in partial compliance will be issued a policy statement at the time of registration informing them that their attendance and academic record can be affected. **Financial Aid eligibility or tuition for that semester can be lost if the student fails to comply.**
3. The proof of the second measles vaccination must be submitted no later than 30 days after the first day of classes. **Students who fail to comply will be notified by mail by the Vice President for Enrollment Management/Student Development that they have been excluded from classes and may not return to class until they are in compliance.**
4. A grade designation of **WA** (Administrative Withdrawal) will be assigned to students who have been excluded from classes because of non-compliance with the requirements described above. Students not in compliance with the requirement by the end of the semester will receive WA grades.
5. The Provost will notify faculty of those students who are not in compliance with PHL 2165, and who must therefore be excluded

from attending classes. **Individual instructors have no control over WA grade assignment.**

6. Students seeking to reverse WA grades prior to one week before the end of the semester may do so by: **(a) providing to the College Nurse proof of immunization as required, and (b) obtaining written approval from each instructor in whose class the student is enrolled.** It will be the faculty member's prerogative and responsibility to determine whether the student being considered for reversal of a WA grade can reasonably complete the requirements of the course.
7. **No WA grade can be reversed beyond the above stipulated deadline.** If students satisfy the immunization requirement at any time after the last day of the semester, the WA grades remain on the transcript.
8. If students provide satisfactory evidence of immunization after the above period, and before the next semester during which the student wishes to enroll, the student will be permitted to register. **Any and all WA grades assigned to the student's transcript will remain on the transcript.**

College Preparatory Initiative (CPI)

The College Preparatory Initiative seeks to have students complete a series of academic courses in high school that will prepare them to succeed in college as well as the workplace. The sequence includes courses in English, Mathematics, Laboratory Science, Social Science, Foreign Language and Fine Arts.

Entering students who lack CPI units must have fulfilled all CPI requirements upon completion of the York College General Education Requirements.

Freshmen Admissions

(no previous college experience)

Under its open admissions policy, The City University of New York (CUNY) will admit to one of its colleges all applicants who present a high school diploma or its equivalent. However, applicants will not always be admitted their first choice college. Admission to York is based upon the high school academic record or the GED score and a minimum number of academic units including at least one year of Sequential Math. Recent High School graduates must show proof of SAT scores. The admissions average is determined by the number of seats available, and by action of the Board of Trustees of The City University of New York, and is subject to change each semester. More flexible admission is available through SEEK.

Skills Assessment Tests

Each student must meet college established standards of proficiency in the basic skills areas of reading, writing and mathematics. In addition, the Board of Trustees has mandated that students meet a University-wide minimal level of skills proficiency before entrance to the upper division. These skills are evaluated by the CUNY Skills Assessment Tests which all students must pass before being admitted to York College. When students transferring within CUNY have met the CUNY standards at the college they are leaving, they have satisfied the University requirement. CUNY associate degree holders must have passed all skills tests upon matriculation. All students without associate degrees transferring 80 credits must pass skills tests with-



in the first semester of enrollment. Transfers with fewer than 62 credits must pass skills tests by the completion of 61 credits. Such students must enroll in courses to prepare for retesting. Students transferring from outside CUNY will be tested if they began their college study in Fall 1978 or after. Students who do not pass all three tests must enroll in courses to prepare for retesting. All tests must be passed before the 61st credit or after one semester of enrollment. Holders of United States bachelor's degrees beginning a second degree program are exempted from the testing requirements.

Advanced Standing Admissions

(some previous college work)

Admission for students who have earned at least six acceptable credits is based upon the index of college work. For those with fewer than six credits, the high school average is also considered. A transcript from each college attended is required. Proof of high school graduation is required of all applicants who have not earned a degree. To be considered for admission candidates must have earned at least a 2.0 grade point average in all previous college coursework.

Students transferring to York College must complete at least 40 credits at York, with at least half of the credits in the major program taken at York. For some programs students will be required to take additional credits to complete the requirements for the baccalaureate degree. For the Bachelor of Arts degree, at least 90 credits must be in the liberal arts. For the Bachelor of Science degree, at least 60 liberal arts credits are required. An overall "C" average in all college work is required for graduation from York. Students may refer to the section on Academic Deficits.

Students who indicate Occupational Therapy as an intended major must have fewer than 40 completed credits to be admitted to the college for the Spring semester. Students who intend to prepare for screening and application to the Occupational Therapy program should read the requirements listed for the Occupational Therapy program.

General Education Requirements

Students with an A.A., A.S. or A.A.S. degree from a CUNY or SUNY community college, with the exception of students in the Nursing Program, will have fulfilled the General Education Requirements except for Writing 301, 302 or 303. For some programs students will be required to take more than the difference between the advanced credit granted and the required 120 credits to complete the requirements for the baccalaureate degree.

Students who do not hold a two-year degree from a CUNY or SUNY community college, but have at least 45 credits in liberal arts and sciences from a regionally accredited college will receive a full or partial waiver from the General Education Requirements based on the evaluation of the credits transferred. Students may be required to take some general education courses if such courses are required by major or as prerequisite for other courses.

Students must also complete the requirements for the Major and the Liberal Arts requirement associated with that Major (60 credits in Liberal Arts courses for a Bachelor of Science and 90 credits in Liberal Arts courses for the Bachelor of Arts).

Maximum Credits Accepted

A maximum of 68 credits will be accepted from a two-year college or degree program. A maximum of 80 credits will be accepted from a senior college. A maximum of not more than 80 credits with a maximum of 68 from two-year college coursework will be accepted from students with credits from both two-year and senior colleges.

Registered Nurses Majoring in Community Health Education

An R.N. Certificate recipient with a high school diploma, who meets the admission criteria of the college, may be granted credit for equivalent courses with grades of "C" or better toward the liberal arts degree in Community Health Education at York. These students should consult the Community Health Education Coordinator.

Evaluation of Prior College Credits (Advanced Standing Credits)

The official evaluation of all courses taken previously at other accredited institutions is done by the Office of the Registrar in conjunction with the academic departments.

In general, credit is granted for a course which is considered equivalent to a course at York and for which the student received the grade of "D" or better at a unit of The City University, or "C" or better at any other accredited institution. "Blanket credit" is given for courses, within disciplines available at York, which have no precise equivalent at York College. Although a student will not receive transfer credit for a "D" grade from a college outside The City University, the student may be exempt from repeating the course if it is prescribed at York College.

Transfer students should seek academic advice and counseling from the appropriate departments before registering for their first

semester at the College. Students should bear in mind that they cannot receive credit a second time for a course already completed at another institution. Each department will determine which transfer course is counted toward the major requirements.

Credits will not be transferred from schools not listed on the student's application.

Second Degree Students

Students who already hold a baccalaureate degree from York College, or who have previously attended York College, and wish to be accepted for a second baccalaureate must apply to the Registrar for readmission and must complete a second degree application. All other baccalaureate holders file a regular advanced standing application. If accepted, the student must complete a minimum of 40 credits at York College in order to earn the second degree. At least 75% of the course requirements of the major program of the second baccalaureate degree must be completed at York. (*See above, Evaluation of Prior College Credits.*)

All second baccalaureate degree students holding a bachelors degree from a regionally accredited senior college are exempt from all skills tests and General Education Requirements, including the upper-division writing requirement, except when such courses are required by major or as prerequisite for other courses.

Special Admissions Programs

Early Admissions

Direct admission to York College will be offered to those students who have completed three or three and a half years of high school; have an average of 90 percent in combined areas of English, foreign language, science, social studies, and mathematics; and have had letters of recommendation submitted. An interview is required. A special application should be secured from the Admissions Office.

The SEEK Program

(Search for Education, Elevation and Knowledge)

SEEK is a higher education opportunity program offered in the senior colleges of The City University of New York. The State Legislature of New York established the program in 1966 as a means of developing the potential of New York City residents who have educational and economic disadvantages. Those who apply and are accepted into the SEEK Program become full-time, matriculated students of the College, pursuing courses leading to the baccalaureate degree.

York's SEEK Program, which began in 1968, provides instructional programs, tutoring, counseling and financial aid.

CUNY BA/BS Program

The CUNY BA/BS Program, administered centrally at the CUNY Graduate Center in Manhattan and coordinated at York by the Office of Academic Affairs, was established by the Board of Higher Education in 1971. It permits mature and highly motivated students with a clear idea of their educational and career objectives to design their own academic program. It seeks to promote sound educational innovation by allowing the participants, under the guidance of a faculty mentor, to pursue a variety of educational experiences. Further

information about the program may be obtained at the CUNY BA/BS Program Office, 365 5th Ave., Room 6412, telephone: 212-817-8220, or from the Office of Academic Affairs.

York College Summer Session

A broad selection of courses are offered in the summer. In addition to traditional campus studies, students may avail themselves of opportunities to attend off campus facilities, both local and abroad.

All currently enrolled York College students are eligible to attend the York College Summer Session and need not formally apply for summer registration. The Summer Session schedule of classes will be available at the Office of the Registrar, 1H08.

All other students who wish to register at York College for summer courses must apply to the Office of Admissions, York College, Jamaica, New York 11451. Applicants will be notified of the time and place of registration.

International Students

Those on a temporary visa should request an application from the Office of Admissions. Admission is based upon the academic record and the Test of English as a Foreign Language (TOEFL).

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Non-Degree Students

Students not wishing to earn a degree may seek admission as a non-degree student and enroll in credit-bearing courses on a space available basis. Non-degree students must take the CUNY Assessment Tests or be otherwise exempt.

Students who apply for non-degree status are required to file a Non-Degree Application and must be high school graduates or the equivalent. If a student has been academically dismissed from a CUNY college he or she must remain out of school for at least one semester. Students should review the Standards for Academic Probation and Retention discussed later in this Bulletin. These standards apply to both degree and non-degree students. Non-degree students are not eligible for financial aid or student loans and are billed the non-degree tuition rate.

Applications for matriculation to degree status are available in the Office of the Registrar. A deficit from prior college work must be offset before a student is eligible to graduate from York College. Refer to the section on Academic Deficits. Students must satisfy the degree requirements contained in the bulletin in effect the semester they matriculate.

Readmission

Students who have not been in attendance at York College for a semester or more and wish to return to York must file an application for readmission at least one month before the beginning of the semester for which they wish to readmit.

An application for readmission may be secured by telephoning or writing the Office of the Registrar. There is a readmission fee of \$10. If the student has been in attendance at any college other than York, a transcript of the student's record must be sent directly by the

institution attended to Office of the Registrar, York College, Jamaica, NY 11451- Attention: Readmission.

Students who have not been in attendance at the College for three or more semesters must follow the bulletin in effect the semester they readmit.

Starting September 1, 2003, students applying for readmission or matriculation (non-degree to degree) must take the CUNY Proficiency Exam (CPE) prior to reaching their 60th credit. Readmitting or matriculating students with 60 or more credits must take the CPE in their first semester. Students should contact the York Testing Center immediately after they have readmitted or matriculated. There are orientations and reading groups to help first-time test takers.

Students in Poor Academic Standing

Students who were dismissed at the end of their last semester in attendance at York College or whose York G.P.A. is below 2.0 must file a petition for readmission with the Committee on Academic Standards. This petition must be filed at least two months prior to the semester in which they wish to be readmitted.

If the petition is approved, the student must then file a readmission application with the Office of the Registrar at least one month before the beginning of the semester for which they wish to be admitted.

An application for readmission may be secured by telephoning or writing the Office of the Registrar. There is a readmission fee of \$10. If the student has been in attendance at any college other than York, a transcript of the student's record must be sent directly by the institution attended to Office of the Registrar, York College, Jamaica, NY 11451.



Tuition and Fees

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

Tuition

	NEW YORK STATE RESIDENTS	NON NEW YORK STATE RESIDENTS AND INTERNATIONAL STUDENTS
Undergraduate (enrolled prior to 6/1/92)		
Full-time matriculated	\$2000/semester	\$360/credit
Part-time matriculated	170/credit	360/credit
Non-degree	220/credit	470/credit
University Technology and Consolidation fees		\$80/Full-time \$42.50/Part-time
Senior citizen fee*	\$65/semester or session plus \$5 consolidated service fee	

Summer Session

Tuition is charged on a credit basis for all credits taken.

Student Association Fee \$40.85

Adult and Continuing Education

Tuition as indicated per course in a separate booklet on Adult and Continuing Education.

Senior Citizens

Senior citizens who are New York State residents may be enrolled in undergraduate courses on a space available basis, without tuition or fee charges except as indicated below, provided they do so on an **audit basis**. Senior Citizens who audit undergraduate courses will not receive degree credit and grades of "AUD" will be assigned. Senior Citizens will be required to pay a \$65.00 non-instructional charge and a \$5.00 consolidated service fee for the semester, as well as any penalty fees (i.e., late registration, library fines, reprocessing fees, etc.)

Senior Citizens who wish to enroll for credit may opt to do so on the same basis as any other degree-credit student. They shall pay the applicable tuition and fees.

Definitions

- A. New York State residents** — A resident student is one who is a United States citizen or a permanent immigrant and who has had his or her principal place of abode in the State of New York for a period of at least twelve consecutive months immediately preceding the first day of classes for the semester with respect to which the residency determination is made, and states his or her intention to permanently live and maintain his or her principal place of abode in New York State. Members of the armed services of the United States stationed in New York State, their spouses, and their dependent children, are considered residents of New York State.
- B. Continuing Student** — A continuing student is one who registers on or after June 1, 1992, and whose previous college of attendance was a CUNY institution. Such previous attendance must have occurred within the six year period immediately prior to the start of the semester. If any non-CUNY college was attended for purposes of degree study as the most recent previous institution of attendance, then said

student is not a continuing student at CUNY upon return, but an advanced standing transfer student.

- C. *Lower Division* — A student who has earned fewer than 61 credits as of registration.
- D. *Upper Division* — A student who has earned 61 or more credits as of registration. This includes students who have earned a baccalaureate degree.
- E. *Full-time**—A student who is enrolled for 12 or more credits or the equivalent.
- F. *Part-time***—A student who is enrolled for fewer than 12 credits or the equivalent.

Association and Consolidated Fee

The full-time association and consolidated fee of \$45.85 or the part-time association and consolidated fee of \$25.85 will be added to the bill. The association and consolidated fee for the summer session is \$15.85.

**For Compensatory or Developmental courses, hours are counted instead of credits to determine full-time status, fees for part-time students, and whether certification requirements are satisfied. However, in order to be eligible for the Tuition Assistance Program (TAP) the first time, freshman must carry at least three semester credits, and all other students must carry six semester credits. (Table 1.)*

***All courses taken by part-time students will be charged on a credit basis except Developmental and Compensatory courses which will be charged on a contract hour basis. Courses with excess hours due to laboratory or field work will be charged on a credit basis for part-time students. The tuition charged part-time matriculated students on a per credit basis in any one semester may not exceed the semester rate.*

Table 1 — Compensatory and Developmental Courses

In the following developmental-compensatory courses where the hours exceed the credits, the hours will be used instead of credits to determine full or part-time status and part-time fees:

COURSE	CHARGEABLE HOURS	COURSE	CHARGEABLE HOURS
ESL 145	6	Math 184	5
ESL 150	8	Math 102	3

Special Fees

- 1. *Application Fee* — First time Freshman: \$40.00
Applicant with prior college experience: \$50.00

The fee for an application processed by the University Application Processing Center is payable to that office. Students currently in attendance at another unit of The City University pay no fee. The fee for a non-degree application is paid to York College. This fee is not refundable.

- 2. *Change of Program Fee* — \$10.00
Each of the following is considered to be a change of program.
 - a. Adding of a course or courses.
 - b. Dropping and adding a course or courses.
 - c. Changing from one section of a course to another section of the same course. All students who wish to effect any one of the changes enumerated above are subject to this fee. Each student must complete a Change of Program and Withdrawal form.
Note — The Change of Program Fee is waived when:
 - a. The College cancels or withdraws a course, causing the stu-

dent to make the program change.

- b. The College changes the hours of the course or makes other substantive changes that provide the student with justification for a change.
- c. The College requests the student to transfer from one section to another section of the same course.

3. Excess Credit Fee

Students who register for more than 18 credits a semester will be subject to excess credit fees in addition to full-time tuition: however, this may not be applicable to all students. An excess credit fee assessment is based, in part, on a student's academic record as of the last completed semester. The fee schedule is as follows:

CREDITS IN EXCESS OF 18	FEE
18.5 - 20	\$ 100
20.5 - 22	230
22.5 - 24	460
Greater than 24	690

4. Re-admission Fee — \$10.00

Students who are re-admitted to the University after an absence of one or more semesters (exclusive of summer session) shall be required to pay a re-admission fee. This fee is not refundable.

5. Transcript Fee — \$4.00

This fee will be waived for transcripts to units of The City University of New York. When requesting transcripts by mail, state the name and address of the person to whom the record is to be mailed. Such requests must be accompanied by a check or money order for \$4 for each transcript, made payable to York College. Students are encouraged to mail money orders to avoid check-processing time. Transcripts bearing the college seal are mailed to the official designated in the request and not given to the applicant for personal delivery. Requests may not be made by telephone.

6. Special Examination Fee

When a student requests an examination at a time other than the scheduled time, and permission is granted by the College, a Special Examination fee is charged at the rate of \$15 for the first examination and \$5 for each additional examination.

Penalty Fees

- 1. *Late Registration Fee* — \$15.00
A charge of \$15 is made for registration after the close of the official registration period. This fee is not refundable.
- 2. *Duplicate I.D. Card* — \$5.00
- 3. *Duplicate Record Fee* — \$5.00
A charge of \$5.00 is made for the issuance of any duplicate record, e.g., Bursar's receipt.
- 4. *Replacement of Lost Equipment* — List price plus 5.00
- 5. *Library Fines*
Overdue books: (overdue charges not applicable for days on which the Library is not open.)

a. General circulation books:	\$.10 each day overdue
b. Reserve books:	\$.50 first hour overdue
	.50 for rest of day
	.50 for each succeeding day

c. Damaged and lost books:	Fine to date reported if overdue, plus replacement cost, plus processing cost of \$5.00
d. Overdue videotape:	\$ 2.00 per day per videotape
e. Lost videotape:	\$30.00 plus \$5.00 processing fee
f. Lost audio tapes:	\$15.00 plus \$5.00 processing fee
g. Lost filmstrips:	\$20.00 plus \$5.00 processing fee
h. Lost browse books:	\$ 5.00 plus \$5.00 processing fee
i. Lost kits:	\$25.00 plus \$5.00 processing fee
j. Lost pictures:	\$ 5.00 plus \$5.00 processing fee

6. Non-Payment Service Fee — \$15.00

Students who are delinquent paying tuition and fees will be required to pay this fee in addition to all outstanding bills to regain the privileges of good fiscal standing with the college. These privileges include freedom to attend classes and access to one's student records. If the student is required to pay a readmission fee, the "non-payment service fee" shall be in addition if appropriate.

7. Payment Reprocessing Fee — \$15.00

When a check tendered to the College by a student is not honored by the bank upon which the check is drawn, the student shall be charged for each check that requires reprocessing. In the event that a student does not make a check good by a given due date the student will be required to satisfy the obligations and pay applicable reprocessing fees and a non-payment service fee.

8. Duplicate Diploma — \$15.00

There will be a charge for each duplicate diploma, or certificate in lieu of a duplicate diploma.

Refund Policy

The date on which the Change of Program and Withdrawal form is filed with the College, not the last date of attendance in class, is considered the official date of the student's withdrawal. It is this official date which serves as the basis for computing any refund granted the student. No portion of the Association fee, or special fees, or penalty fees is refundable.

Procedures

1. A full refund is available only if an official withdrawal is made before the first scheduled day of classes.
2. Program changes affecting a student's credit load, from full-time to part-time, or reducing one's part-time credit load, may entitle the student to a refund if the change is made within the refund period indicated below. (Table 2.)

	FALL & SPRING SESSION	SUMMER SESSION
Withdrawal before the scheduled opening date of the session	100%	100%
Withdrawal in order to register at another unit of The City University during that semester	100%	100%
Withdrawal within one week (or its equivalent for the summer) after the scheduled opening date of the session	75%	50%

Withdrawal during the second week (or its equivalent for the summer) after the scheduled opening date of the session	50%	25%
Withdrawal during the third week (or its equivalent for the summer) after the scheduled opening date of the session	25%	None
Withdrawal after the completion of the third week of the session (or its equivalent for the summer)	None	None

NOTE: Students who take a leave of absence after the first day of classes are liable for tuition and fees in accordance with the above schedule of refunds.

3. TAP entitlement is awarded to full-time matriculated students for four years of undergraduate study (eight semesters). Exceptions include *approved* programs of remedial study — the Transitional Program College Discovery, SEEK — or a five-year baccalaureate program where the normal course of study requires more than four years — pharmacy, architecture, engineering. Pell Grant is awarded for the period required to complete one's first undergraduate baccalaureate course of study.
4. If a student is awarded financial aid and a change of status is made from full-time to part-time or vice versa, he or she must notify the Financial Aid Office.

Special Situations

1. *The College cancels the student's registration:*
If a student is permitted to register and subsequently the College learns that the student is not in good financial standing due to prior liabilities, the registration may be cancelled. The student is not liable for tuition and fees for the semester in which the registration is cancelled.
2. *Improper advisement has been given:*
If a tuition-paying student is placed in a special class following testing, and after a week or more in the class, the instructor advises that the student does not need the course and should withdraw, the student is entitled to a full or partial refund according to the following: if the College is satisfied that the student was improperly advised originally, the tuition may be refunded in full; otherwise, the student is entitled to a tuition refund based on the established refund schedule.
3. *Change in status from full-time student to part-time student:*
If a full-time student (registered for at least 12 credits) drops a course during the refund period and thus is registered for less than 12 credits, the student's effective tuition is then calculated on a part-time basis. However, the student is liable also for that portion of the full-time tuition which is not refunded in accordance with existing refund procedures (*see section on Refund Policy*). The student's refund is calculated by subtracting the new part-time tuition amount from the full-time amount and giving him as a refund a percentage of that difference, the percentage depending upon the point of withdrawal. (Table 3.)

Table 3 — Change in Status from Full-Time to Part-Time

As an example, the calculation is as follows:

Tuition paid as full-time student	\$2000.00
Tuition as part-time student taking 9 credits (\$170 x 9)	\$1530.00

Difference (subject to refund schedule – see section on Refund Policy)	\$470.00
Assume the 3 credits are dropped within the first week of classes. The student receives a 75% refund of above difference	\$352.75
Effective tuition as part-time student (full-time tuition less refund)	\$1647.25

4. Other specific situations:

If the student, because of medical or mental illness, is absent from classes and does not withdraw during the first three weeks of the session and at a later date requests a refund, supporting the request with documentation, the following may be considered:

As a general rule, the law recognizes that time limits should not necessarily control where rights may be exercised within specified time limits. If the individual presents a justifiable excuse for not making a timely request, and there is no prejudice in granting the untimely request, a refund may be made.

Refunds to students claiming MILITARY SERVICE will be approved by complying with the following principles:

1. Military Service must be documented with a copy of induction or military orders.
2. Since in order to obtain a grade a student must attend approximately thirteen weeks (five weeks for summer session or the equivalent), no refund will be made to a student who has been assigned a grade, regardless of whether the grade is passing or failing.
3. In instances where students who have enlisted in the armed services do not qualify for a grade and continue in attendance to within two weeks of induction, refund of tuition and all fees, except application fee, will be made as follows:

Withdrawal before beginning of the fifth calendar week (third calendar week for summer session or the equivalent) after scheduled opening date of session	100%
Withdrawal thereafter	50%

in any registration material issued by the College are subject to change by action of the Board of Trustees without prior notice.

In the event of any increase in the fees or tuition charges, payments already made to the College will be treated as a partial payment and notification will be given of the additional amount due and the time and method for payment.

The association fee or any part thereof is not refundable at any time. (Exceptions: see Special Situations section).

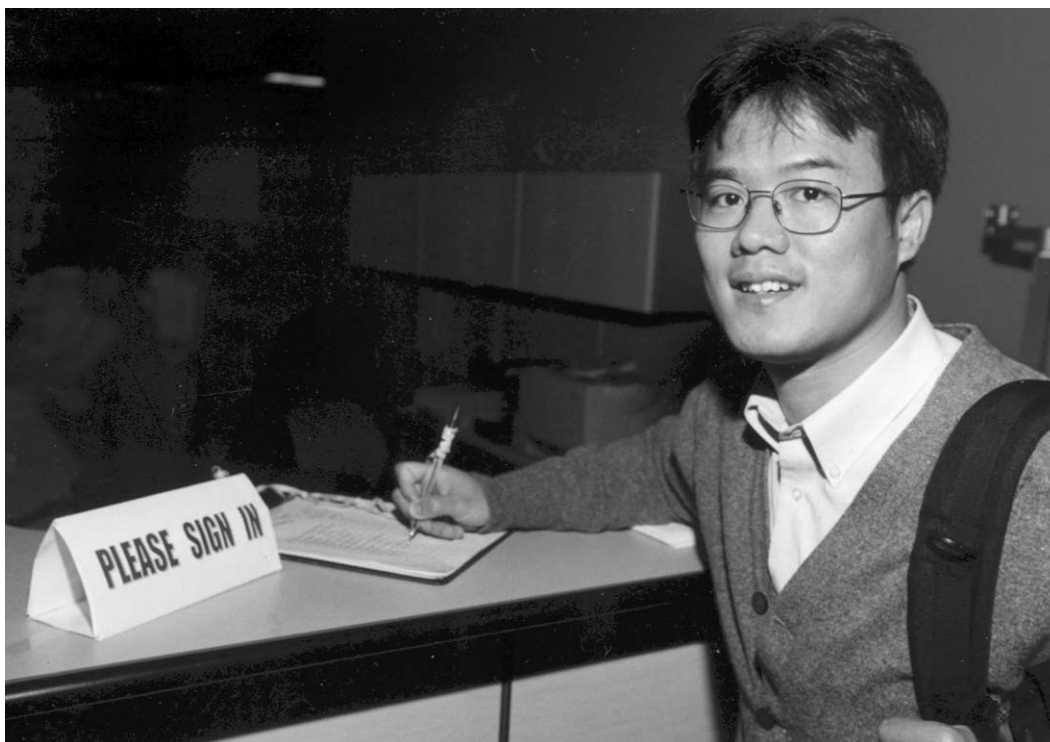
Tuition Waivers

Tuition waivers may be changed or abolished by The City University Trustees without notice, and at all times are subject to budgetary limitations which have been established for City University. In the event a student receives a tuition waiver and is subsequently notified that the waiver has been reduced or eliminated, the student shall have the option within seven days after being notified of the reduction or elimination to pay the amount then due, to make a payment agreement which is acceptable to the College, or to withdraw without penalty.

Blocks

Students may have blocks placed on their registration, transcripts, grades, correspondence, and diplomas for a variety of reasons including outstanding debts, failure to document immunization, and library fines. These blocks will remain in place until the student meets the appropriate requirement(s).

NOTE: All fees and tuition charges listed in the college bulletin and



The Cost of Education

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The cost of education is an important consideration when deciding which educational program is best suited to your goals and aspirations.

The following information should be of assistance to you in calculating the costs related to attendance in York College. By performing some basic calculations, you can develop your own "student budget." Generally, a student budget consists of the direct educational costs of tuition, fees, books and supplies, as well as those costs which are incurred by virtue of attendance, such as transportation and lunch. Students who are not living with their parents also need to take into consideration housing costs, and those with young children need to include child care expenses.

Developing A Student Budget

Following are the most recent Federal guidelines used for establishing the total cost of education for financial aid purposes. The amounts vary according to whether a student is dependent or independent. Students should be aware that these are minimal figures, and that actual costs, especially for housing, may be higher. These figures are based on an academic year of nine months.

I. Direct Educational Costs

Tuition and Fees

For the 1997-98 academic year, undergraduate students who attend any institution within The City University of New York will be charged according to the Tuition Fee Schedule. (Table 4.)

Table 4 — Tuition Fee Schedule

	RESIDENT STUDENTS	NON-RESIDENT STUDENTS
Undergraduate		
Full-time matriculated	\$2000/semester	\$360/credit
Part-time matriculated	170/credit	\$360/credit
Undergraduate (Non-degree)		
	\$220/credit	\$470/credit

Books/Supplies

The average cost of books and supplies for an undergraduate student is \$500. (In some cases, an individual student's curriculum may require a somewhat higher or lower expenditure.)

Student Activity Fee

All students must pay general student activity and consolidated fees. At this institution, the general fee schedule is as follows:

Full-time	\$45.85/semester	
Part-time	\$25.85/semester	
Summer Session	\$15.85	
University Technology Fee	\$75/full-time	\$37.50/part-time



II. Costs Related to College Attendance for Dependent Students

If you are a dependent student, the following costs represent the total out-of-pocket expenses which will result from your college attendance:

Public transportation for nine months is approximately \$1080. This amount is based upon the current \$2.00 fare.

For personal expenses and recreation, the amount allowed for the academic year is \$2,214. This figure includes the allowance to be used for lunch at school.

III. Living Costs for Independent Students

If you are a single, independent student who commutes to college, you should expect to spend approximately \$3,802 for rent and utilities and \$1,946 for food (including lunch) for the nine-month academic year. Personal expenses for a single-person family during this period total approximately \$2,442.

IV. Budget Adjustments

Child Care

Students who have dependent children *under 13 years of age* will be eligible for a budget allowance of \$1,800 regardless of the number of children under 13 (12 years, 12 months minus a day).

Disabled/Handicapped

Students who can document additional expenses as a result of a disability and are not sponsored by the *Office of Vocational Rehabilitation (OVR)* and the *Commission for the Blind and Visually Handicapped* can receive a budget adjustment.

Student Resources

In reviewing the budget developed from the previous section, students should take into consideration any available resources which may be applied against the budget. If the resources are not equal to or greater than the budget, they should apply for financial aid.

Students should consider making contributions to their education and expense through the following types of resources:

1. salaries, wages and tips
2. savings
3. parental contribution
4. social security benefits
5. veterans benefits
6. non-taxable income (e.g., unemployment benefits, welfare benefits)
7. assistance from spouse or relatives

Students are encouraged to investigate every possible resource which might be available as soon as they make the decision to attend college.

Student Financial Services

Student Financial Services provides assistance to students in securing resources to pay for the costs of college. Eligibility for most assistance is based upon demonstrated financial need. Financial need considers the average cost of attending college and an estimated family contribution using a formula established by the U.S. Congress. Your estimated family contribution is determined by filing a Free Application for Federal Student Aid (FAFSA). When you apply for financial aid using the FAFSA, you are actually applying to several different aid programs. Student Financial Services assists students in the application process and matches fund sources to students based on eligibility requirements.

Applying for Financial Aid

To apply, students are required to file the Free Application for Federal Student Aid (FAFSA) which is online at www.fafsa.ed.gov. Paper FAFSAs are also available at the York College Student Financial Services Office. Submitting a FAFSA also generates an application for the New York State Tuition Assistance Program (TAP) awards. If you submit a paper FAFSA you will receive a CUNY TAP/APTS application in the mail. If you use the FAFSA on the Web option, you will be directed to a TAP application on the Internet.

To make the application go faster, you and your parents should request a PIN from the federal government. This is done at www.pin.ed.gov. The PIN acts as an electronic signature and can speed not only the FAFSA and TAP applications, but also other documents throughout the year.

Transfer Students

Students transferring to York for a Spring term should submit their Student Aid Report to Student Financial Services. You can request a duplicate Student Aid Report or add the York College Federal Code is (004759) at www.fafsa.ed.gov. Transfer students should use the York College TAP school code, which is 1418. Student accounts may be checked and updated at hesc.com.

Financial Aid Programs

New York State Tuition Assistance Program

The New York State Tuition Assistance Program (TAP) helps eligible New York residents attending in-state postsecondary institutions pay for tuition. Depending on the academic year in which the student began study, annual TAP awards range from \$500 to full CUNY tuition. To be eligible for TAP, a student must:

- Be a United States citizen or eligible noncitizen.
- Be a legal resident of New York State
- Study full time (at least 12 credits per semester) at an approved postsecondary institution in New York State.*
- Have graduated from high school, or have a GED, or have passed a federally-approved exam demonstrating the student can benefit from the education offered

- Be matriculated in an approved program of study and be in good academic standing
- Have at least a cumulative "C" average after receipt of two annual payments
- Be charged at least \$200 tuition per year
- Not be in default on a student loan guaranteed by HESC and not be in default on any repayment of state awards
- Meet income eligibility limitations

** Effective Fall 1998, disabled students who meet definition of the 1990 Federal Americans with Disabilities Act may receive TAP while attending less than full-time. Please check with Student Financial Services, Room 1M08, for updated information.*

WHAT ARE THE INCOME LIMITS?

- Dependent undergraduate students or students who are married or have tax dependents - \$80,000 NYS net taxable income
- Single independent undergraduate students with no dependents - \$10,000 NYS net taxable income
- Single independent graduate students with no dependents - \$5,666 NYS net taxable income
- Dependent graduate students or independent graduate students who are married or have tax dependents - \$20,000 NYS net taxable income

WHAT DETERMINES THE AMOUNT OF THE AWARD?

- Academic year in which first payment of TAP or any state award is received
- Combined family NYS net taxable income
- Financial status (dependent or independent)
- Other family members enrolled in college

The final filing deadline for TAP is May 1 of the academic year for which aid is sought.

AIID FOR PART-TIME STUDY (APTS)

To be considered for an APTS award, students must:

- Enroll part-time as a matriculated student in an approved undergraduate degree program.
- Meet the program income limits
- Be a New York State resident and either a U.S. citizen or qualifying non-citizen
- Register for between 6 and 11.5 credits
- Not have used up Tuition Assistance Program (TAP) eligibility
- Maintain good academic standing
- Not be in default on a Federal Family Education Loan
- Have achieved at least a cumulative "C" average after having received the equivalent of two full years of payment of State-sponsored student financial aid
- Be a high school graduate, or receive the equivalent of a high school certificate, or receive a passing grade on a federally-approved examination if receiving a State-sponsored award for the first time in the 1996-97 academic year.

INCOME CRITERIA

Eligibility for an APTS award is based on New York State net taxable

income from the preceding calendar year.

If students were eligible to be claimed as tax dependents by their parents, family New York State NET taxable income can be as much as \$50,550 to qualify for an award. Family income includes student AND parents' income.

If students were not eligible to be claimed by their parents as tax dependents, their New York State NET taxable income (including spouse's income) can be as much as \$34,250 to qualify for an award. Spouse's income must be included if they were married on or before December 31 of the previous calendar year.

If students were not eligible to be claimed by their parents but were eligible to claim tax dependents other than self and/or spouse, new York State NET taxable income (including spouse's income) can be as much as \$50,550 to qualify for an award. Spouse's income must be included if they were married on or before December 31 of the previous calendar year.

STUDY REQUIREMENTS

For this program, part-time study means being enrolled for at least: 6 but less than 12 semester hours per semester

Student Eligibility

TAP PROGRAM GUIDELINES FOR AWARDS TO STUDENTS WHO RECEIVE THEIR FIRST TAP AWARDS DURING 1981-82 OR THEREAFTER

Major changes were made to the TAP program guidelines affecting awards to these students. New students must now show evidence of good academic standing by meeting program pursuit standards and reaching specific benchmarks in academic progress.

Academic Progress

The regulations stipulate that in order to maintain TAP eligibility, students must meet the academic progress standard each award semester. This standard has two components:

1. Students must accrue a specified number of credits. (Table 5.)
2. Students must achieve a minimum level of performance as measured by cumulative grade point average (GPA). (Table 6.)
3. Effective Fall 1996, a C average or better is required after 2 years of State Aid (24 or more points of TAP and/or APTS).

Table 5 — Program Pursuit Chart

	TAP Payment Sought	Minimum Credits/Equated Credits Completed For The Prior Payment Semester
	1	0 (At the beginning of the first payment)
	2	6 (At the end of the first payment)
	3	6 (At the end of the second payment)
	4	9 (At the end of the third payment)
	5	9 (At the end of the fourth payment)
	6	12 (At the end of the fifth payment)
	7	12 (At the end of the sixth payment)
	8	12 (At the end of the seventh payment)
SEEK Only	9	12 (At the end of the eighth payment)
SEEK Only	10	12 (At the end of the ninth payment)

Completed grades are A, B, C, D, F, ABS, INC, NC, and R. W or WU grades are not considered completed grades for TAP purposes.



Table 6 — Academic Progress Chart (Effective Fall 1996)

TAP Payment Sought Or Step Number	Minimum Cumulative Credits* Earned Through Last Semester of Attendance	Minimum Cumulative GPA Through Last Semester of Attendance
1	0	0
2	0	0
3	6	1.00
4	18	1.20
5	31	2.00
6	45	2.00
7	60	2.00
8	75	2.00
SEEK Only 9	90	2.00
SEEK Only 10	105	2.00

*Cumulative credits mean total credits passed since beginning of student's college career (Grades A, B, C, D, P). When resolved, INC and ABS will be reviewed for retroactive liability, if any.

Waiver Guidelines

A one-time waiver of the normal progress requirements may be granted.

If you fail to meet the TAP pursuit, progress, and/or attendance requirements, you may apply to the TAP Waiver Committee for a waiver. The circumstances which will be considered by the committee, and which must be documented, are the following:

1. personal illness involving hospitalization or extended home confinement;
2. illness in immediate family requiring your absence from classes for an extended period;
3. emotionally disabling condition which prevented you from attending classes;
4. change in working conditions of your job on which you and your family are dependent;
5. military duty, incarceration or other involvement with agencies or government which prevented you from attending classes.

For undue hardship directly affecting the 2.0 requirement, more than one waiver may be granted.

Your academic record will be assessed for indications that you will be able to meet the standards in the following semester.

A waiver does not extend the number of TAP payments you may receive. It does enable you to receive TAP for that semester only and you must then meet the requirements to be eligible for further payments. Applications are available in Student Financial Services.

Table 7 — Compensatory, Developmental & Remedial Courses

COURSES	HOURS	CRS.	FINANCIAL AID EQUATED HOURS
ESL			
145	6	2	6
150	8	2	8

Math	102	3	1	3
	184	5	4	5
Nat. Sci.	100	4	2	3

Federal Programs

To determine if you are eligible, the U.S. Department of Education uses a standard formula, established by Congress, to evaluate the information you report when you apply. Based on the information you gave on the FAFSA your Expected Family Contribution (EFC) number will be used to determine your eligibility for federal student aid. If your Student Aid Report (SAR) says you are eligible for a Federal Pell Grant your school may use the SAR as the basis to pay you.

If you claim to be an **independent student**, your school may ask you to submit proof before you can receive any federal student aid.

You are an independent student if you are one of the following:

1. at least 24 years old by January 1 of the award year
2. a married student
3. a veteran of the Armed Forces of the United States.
4. a student with legal dependents other than a spouse.
5. an orphan or ward of the court
6. a graduate or professional student

A student may also be considered independent if the financial aid administrator determines and documents the student's independent student status based on unusual circumstances. The Financial Administrator's decision is **final** and cannot be appealed to the U.S. Department of Education.

Rights and Responsibilities of Recipients:

Federal regulations require the college to establish standards of Satisfactory Academic Progress for purposes of the receipt of Title IV financial assistance. When appropriate, this policy may be applied to other aid programs administered by the Office of Student Financial Services. A student must maintain satisfactory academic progress in a course of study regardless of whether the student was a previous recipient of Title IV financial assistance. The factors required to measure satisfactory progress are qualitative and quantitative. The **qualitative** measure is the grade point average. The **quantitative** measure is the time-frame/limitation.

In order to be making 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, at least a "C" average, or its equivalent, or academic standing consistent with the requirements for graduation, and accumulate credits toward the degree according to the following standards:

- A. Attempted credits are not more than 150% of the credits normally required for completion of the degree.
- B. Accumulated credits are equal to or greater than two-thirds of the cumulative credits attempted at the institution.
- C. For baccalaureate programs accumulated credits are equal to or greater than (.75 (cumulative credits attempted) - 18) or for associate degree programs; accumulated credits equal to or greater than (.875 (credits attempted) - 21).

Students will be measured against the satisfactory academic standard at the end of the spring term to determine eligibility for receipt of Title IV student financial assistance for the upcoming year.

Students on probation who make satisfactory academic progress will continue to maintain their academic standing with the College and their concurrent eligibility for financial aid. Students on probation who achieve an index of 2.00 or higher each semester until they reach the required overall minimum GPA are defined as having made satisfactory progress.

Students who fall beneath the conditional standard may appeal to the Waiver Committee to retain their eligibility for receipt of Title IV Federal Student Assistance.

These appeals will be evaluated for mitigating circumstances resulting from events such as personal illness, injury, and personal tragedy, and for indicators that the student will achieve the appropriate standard.

A successful appeal will result in a one-year probationary period during which the student must meet the appropriate standard.

A student whose appeal has been denied or who has lost eligibility by not meeting the standard without appeal may regain eligibility by leaving the institution for a period of at least one year. Upon readmittance, they will be placed on the standard by the procedure which is used to place transfer students onto the standard.

A student who chooses to be enrolled without receipt of Title IV Federal Student Assistance may request a review of his/her academic record after the summer, fall or spring terms for a determination of whether the coursework taken in those periods have brought them up to the appropriate standard. If the standard is met with the inclusion of the coursework, eligibility for receipt of Title IV Federal Student Assistance may be restored for subsequent terms in that year.

Awards are paid with the expectation that the student will remain enrolled for the entire semester. A student who withdraws, officially or unofficially, or stops attending may be required to repay a portion of the award. A student who withdraws before payment is made may be eligible for a prorated award. For information, students should contact Student Financial Services.

Remedial Credits

The maximum number of remedial credits a student may accumulate is one academic year's worth of non-credit remedial coursework (30 credit/semester hours). To determine a student's Pell financial aid maximum number of non-credit remedial coursework, the remedial courses a student is taking for a semester are assigned equivalent remedial contact credits. These credits are subtracted from the college assigned credits to ascertain the non-credit remedial hours/credits for that semester. This number is added to the student's previous accumulation and if the new total exceeds 30 credits, the student's total semester credits are reduced by the number above 30.

If you drop a course(s) or register for a course(s) but never attend, your PELL grant award will be recalculated to reflect the revised credit load and your award may be reduced.

Withdrawals

Withdrawals recorded on your permanent record will be counted in your cumulative record of credits attempted and will adversely affect your ability to meet the satisfactory progress standard.

Note: Changes to your enrollment record caused by retroactive "non-punitive" administrative withdrawal activity can result in your having to repay the assistance you received that term.

Incomplete Grades

Your cumulative record of attempted credits must include any course for which you receive an incomplete grade. This course cannot be counted in your record of accumulated credits until you have received a completion grade. If you fail to meet the satisfactory progress standard for credit accumulation due to an incomplete grade for a course, the recording of a successful completion grade within a term which brings your accumulated credits up to the satisfactory progress standard will restore eligibility for this and subsequent terms within the academic year.

Repeated Courses

Successfully completed courses can generally be accepted toward degree requirements only once. However, each time you attempt a course, it is included as part of your cumulative record of attempted credits. Therefore, repeating a course, regardless of prior grade, reduces your ability to meet the satisfactory progress standard.

Federal Pell Grant

A Federal Pell Grant is an award to assist undergraduates pay for education after high school. You must be enrolled for at least one credit as an undergraduate matriculated student in an approved post-secondary institution and you must need financial assistance to continue your education.

Award Schedule:

Currently awards range from \$400 to \$4,050 per year. The amount of the award will depend on your Expected Family Contribution, and the cost of attendance whether you are a full or part-time student, and whether you attend school for a full academic year, or less.

Federal Supplemental Educational Opportunity Grant (FSEOG)

FSEOG is a program which helps exceptionally needy students with educationally related expenses. FSEOG awards are made to supplement other forms of financial aid and do not have to be repaid.

Selection of Recipients and Allocation of Awards:

To be eligible, you must be:

1. a U.S. citizen or eligible non-citizen enrolled as an undergraduate student in approved post-secondary institution which is eligible to participate in the FSEOG program;
 2. enrolled in an institution which will provide the applicant with additional financial assistance at least equal to the amount of the FSEOG award;
- All awards are based on the availability of federal funds.

Rights and Responsibilities of Recipients:

You must make satisfactory academic progress.

Awards are paid based upon you remaining enrolled for the entire semester. If you withdraw officially or unofficially, you may be required to repay a portion of your award. If you withdrew before payment is made, you may be eligible for a prorated award; contact your financial aid office.

Federal Work Study (FWS)

Federal Work-Study is a program which provides employment for students with financial need. The program encourages community service and work related to the student's course of study. Jobs are available both on and off campus. The FWS award amount depends on the level of need and availability of funds.

Application Procedures:

Application is made through the college you are attending. A student enrolled at a CUNY college can apply for an award under this program by completing a FAFSA.

Selection of Recipients and Allocation of Award:

To be eligible you must be a U.S. citizen or eligible non-citizen enrolled at least half-time in an approved post-secondary institution which is itself eligible under law for participation in the Federal Work Study Program. An institution must make employment reasonably available to all eligible students. In the event that more students are eligible for FWS than there are funds available, preference is given to students who have a greater financial need and who must earn a part of their educational expenses.

Award Schedule:

The post-secondary institution arranges jobs on campus, or off campus with public or private non-profit agencies such as hospitals, libraries etc., for up to 35 hours per week. Factors considered by the financial aid officers in determining whether, and how many hours, you may work under this program are: financial need, class schedule, academic progress, and health status.

On campus pay rates range from \$5.50 - \$6.00. Off campus rates are determined by the nature of the job and the applicant's qualifications. The award ranges from \$800 to \$2,000 per academic year.

Federal Loan Programs

The William D. Ford Federal Direct Loan Program

Application Procedures:

The application for Direct or PLUS loans may be obtained from the Financial Services Office.

The terms of the Direct Loan Program are the same as the former Stafford Loan Program. Applications are available in the Financial Services Office.

When the loan is approved, you will receive notification from CUNY. After signing the Master Promissory note, the loan will be disbursed in accordance with the college payroll calendar.

Selection of Recipients and Allocation of Awards:

To be eligible for a Direct loan you must be:

1. be a U.S. citizen or permanent resident alien or an eligible non-citizen;
2. be enrolled at least half-time as a degree student in an approved college, university or other post-secondary institution in any of the United States;
3. not be in default on a prior Federal student loan or owe a repay-

ment on a PELL Grant or any Title IV Student Aid Program;

4. have filed a FAFSA with the Dept. of Ed and submitted all required documentation to Student Financial Services. All Students must undergo a financial needs analysis to determine eligibility.
5. be meeting satisfactory progress requirements.

Loan Schedule:

Undergraduate freshmen may borrow up to \$2,625, sophomores \$3,500, and juniors and seniors, \$5,500, per academic year up to a total of \$23,000.

The annual rate of interest for the Direct Loan varies with the treasury note: caps at 8.25%. You are eligible for a full interest subsidy during the time you are in school and for 6 months after you cease to be at least a half-time student. During this time the interest on the loan is paid by the Federal Government.

Rights and Responsibilities of Recipients:

You must begin repayment 6 months after you cease to be at least a half-time student. Payment of the principal may further be deferred:

1. during study under a graduate program approved by the U.S. Department of Education,
2. during up to three years of active U.S. armed forces service,
3. during up to three years as a full-time Peace Corps or Domestic Service volunteer or,
4. for a three year period during which the borrower is temporarily totally disabled or the borrower is unable to secure employment by reason of a spouse who is disabled.

Immediately after ceasing to be at least a half-time student or leaving the institution, you must:

1. meet with a financial aid officer/counselor to undergo an Exit Interview, and
2. make formal arrangements with the lending institution to begin repayment. The following regulations apply:
 - a. Depending on the amount of the loan, the minimum monthly payment will be \$50 plus interest. Under unusual and extenuating circumstances the lender, on request, may permit reduced payments.
 - b. The maximum repayment period is 30 years.
 - c. You may choose from 4 payment plans.

Unsubsidized Direct Loan

The unsubsidized Direct loan is available to eligible independent students, regardless of family income. Qualified students may borrow an additional amount up to \$4,000 for freshmen and sophomores per academic year, and \$5,000 for juniors and seniors per academic year. Interest accrues when the check is disbursed.

Federal Perkins Loan Program (Formerly NDSL)

Application Procedures:

Application is made through the college which you are attending. A student enrolled at a CUNY college can apply for a loan under this program by completing a FAFSA. Information on loan cancellation provisions for borrowers who go into certain fields of teaching or specified military duty, is available from your college.



Selection of Recipients and Allocation of Awards:

Loans are available to students enrolled at least half-time in approved post-secondary institutions eligible under law to participate in the Federal Perkins Loan Program. Students must be in good academic standing.

Award Schedule:

Amounts which may be borrowed are: \$4,500 by students who have completed less than two years of a program leading to a bachelor's degree, to include any amount borrowed through an NDSL or Perkins Loan for the first two years of study; \$9,000 after completion of two years; \$18,000 for graduate study, to include any amount borrowed through an NDSL or Perkins Loan for undergraduate study.

Rights and Responsibilities of Recipients:

The current interest rate, payable during the repayment period, is 5 percent on the unpaid principal. Repayment begins 9 months after graduation or leaving school, and may extend over a period of up to 10 years. The repayment period may be extended for an additional ten years for low-income borrowers, with repayment related to the borrower's income. Deferment privileges are extensive and vary according to when you first borrowed.

A deferral of payment of up to 2 years may be arranged when the borrower is serving an internship which is required to begin a professional practice or service.

Federal PLUS Loan

Parents of dependent students may apply for a PLUS loan. The annual amount of a PLUS loan is limited to the child's cost of education minus any other estimated financial aid awarded. Repayment begins sixty

days after disbursement and the total loan, including interest, must be repaid within ten years. If the parent fails to repay the PLUS loan, the child will be ineligible for further Title IV assistance.

Withdrawals and Returns of Federal Financial Aid

As part of the Higher Education Amendments of 1998, Congress passed new provisions governing what must happen to your Federal financial assistance if you completely withdraw from school in any semester. This change of policy goes into effect beginning with the Fall 2000 semester. The policy governs all Federal grant and loan programs, including Federal Pell Grant, Federal SEOG, Federal Perkins Loans, and Federal Direct Loans, but does not affect Federal Work-Study.

In general, the new law assumes that you "earn" your Federal financial aid awards directly in proportion to the number of days of the term you attend. If you completely withdraw from school during a term, the College must calculate according to a specific formula the portion of the total scheduled financial assistance you have earned and are therefore entitled to receive up to the time you withdrew. If you receive (or the College receives on your behalf) more assistance than you earn, the unearned excess funds must be returned to the Department of Education. If, on the other hand, you receive (or the College receives on your behalf) less assistance than the amount you have earned, you may be able to receive those additional funds.

The portion of your Federal grants and loans you are entitled to receive is calculated on a percentage basis by comparing the total number of days in the semester to the number of days you completed before you withdrew. For example, if you complete 30% of the semester, you earn 30% of the assistance you were originally scheduled to receive. This means that 70% of your scheduled awards remain unearned and must be returned to the Federal Government.

Once you have completed more than 60% of the semester, you can

be said to have earned all (100%) of your assistance. If you withdraw from the College (either officially or unofficially) before completing 60% of the semester, you may have to repay any unearned Federal monies that were already disbursed to you.

Your withdrawal date will be determined by the College as (1) the date you began the College's withdrawal process (as described in the Schedule of Classes) or the date you officially notified the Registrar of your intent to withdraw; (2) the midpoint of the semester if you withdraw without notifying the College; or (3) your last date of attendance at an academically-related activity as documented by the College.

If you have received excess funds that must be returned to the government, the College shares with you the responsibility of returning those excess funds. The College's portion of the excess funds to be returned is equal to the lesser of:

- the entire amount of the excess funds, or
- your total tuition and fee charges multiplied by the percentage of unearned funds

If the College is not required to return all of the excess funds, you must return the remaining amount. Any loan funds that you must return must be repaid according to the terms of your promissory note. If you must return any grant funds, the law provides that the amount you must repay is to be reduced by 50%. This means that you only have to return half of any excess funds you receive. If the return of unearned Federal assistance causes any portion of your tuition and fees to become uncovered, you will be billed by the College. In such cases, you will be required to make arrangements with the Bursar to pay the balance.

Any award money you do have to return is considered a Federal grant overpayment. You must either repay that amount in full or make satisfactory arrangements with either the College or the Department of Education to repay the amount. You must complete these arrangements within 45 days of the date of the College's notifying you of your overpayment status or risk losing your eligibility for further financial assistance.

Veterans Administration (VA) Educational Benefits

Application Procedures:

Application forms are available at all VA offices, active duty stations, and American embassies as well as in the Division of Student Development. Completed forms are submitted to the York College Veterans Affairs Office.

Selection of Recipients and Allocation of Awards:

A. GI Bill Educational Training

Persons who served over 180 days between January 31, 1955 and December 31, 1976, and:

1. continue on active duty,
2. were released under conditions other than dishonorable, or
3. who qualify because of service-connected disabilities, are eligible for benefits.

Veterans are entitled to benefits for full-time study at an approved post secondary institution for 1 1/2 months for each month of active service, up to 45 months. Eligible veterans who served for 18 continuous months are entitled to benefits for 45 months of full-time study. In each case, the equivalent in part-time study may be authorized.

B. Veterans Education Assistance Program

Persons who entered active duty after December 31, 1976, and (1) were released under conditions other than dishonorable, and (2) satisfactorily contributed funds to the program while in the service are entitled to benefits at the rate of \$2 for every \$1 made by the participant. Veterans receive monthly payments for the number of months they contributed, or for 36 months, whichever is less.

Children, spouses and survivors of veterans whose deaths or permanent total disabilities were service-connected, or who are listed as missing in action may be eligible for post secondary education benefits under the same conditions as veterans.

Award Schedule:

Current monthly benefit rates are shown below:

STATUS	MORE THAN 3 YEARS	G.I. BILL
Full-Time		\$985
Three-quarters		657
Half-Time		492

STATUS	3 YEARS	G.I. BILL
Full-Time		\$800
Three-quarters		534
Half-Time		400

STATUS	RESERVIST	G.I. BILL
Full-Time		\$282
Three-quarters		188
Half-Time		141

Veterans enrolled in full-time study may agree to part-time employment under VA supervision and receive extra benefits.

Institutions are required to report promptly to the VA interrupted attendance or termination of study on the part of students receiving benefits.

Vietnam Veteran Tuition Award:

The applicant must have served in the United States Armed Services in Indochina between January 1, 1963 and May 7, 1975, have been discharged from the services under other than dishonorable conditions, meet New York State residency requirements, be enrolled in a degree-granting institution, file a Pell Grant and TAP application, and a Vietnam Veteran Award Supplement. Awards are \$1,000 per semester, but no more than tuition, for full-time study.

Social Security Payments to Children of Deceased or Disabled Parents

Application may be made at any Social Security office.

Institutional Aid Programs

Emergency Loan

A small, short-term loan for emergency assistance is available through application in the Office of Student Financial Services. Students should come with the proper documentation of the emergency. This loan is not for payment of fees, tuition, books or any anticipated school expense. If the loan is unsecured, the maximum amount is \$50.00; if secured (a financial aid check to the college is forthcoming), the maximum amount is \$300.00. Information can be obtained in Student Financial Services.

Scholarships

General Information on scholarships may be obtained from the Office of Student Activities, Room 1E01, and the Student Information and Resource Center, Room 1C08. Information accurate as of June 30, 2003.

In addition to external scholarships, York College offers several competitive Scholars Programs which include a stipend as part of their benefits.



Student Life

Division for Enrollment Management and Student Development

The mission of the Division of Enrollment Management and Student Development is to complement the academic and service functions of the College by providing an environment in which community is developed and opportunities are provided. Within this community, students are encouraged to contribute responsibly to the college and the larger society. The programs sponsored by the Division integrate students into college life and enhance students' total development with particular emphasis on intellectual, ethical, social, career, emotional and personal development. The Division also assists students in acquiring greater sensitivity toward others, an appreciation of cultural diversity and healthy lifestyles.

The Division of Enrollment Management and Student Development accomplishes its mission by:

1. assisting student's successful transition to college;
2. creating opportunities for students to expand their aesthetic and cultural appreciation;
3. instructing students on how to mediate individual and group conflicts;
4. providing services for students with various health, disabling and/or learning difficulties;
5. helping students understand and appreciate racial, ethnic, gender and other differences;
6. designing opportunities for leadership development;
7. establishing programs that encourage healthy living and confront abusive behaviors;

8. providing opportunities for recreation and leisure-time activities;
9. helping students clarify career objectives, explore options for further study, and secure employment;
10. assessing the educational and social experiences of students to improve institutional programs;
11. establishing policies and programs that contribute to a safe and secure campus;
12. supporting and advancing institutional values by enforcing the university's behavioral standards for students;
13. advocating student participation in institutional governance;
14. serving as a resource to the faculty in their work with individual students and student groups;
15. encouraging faculty-student interaction in programs and activities;
16. assuming leadership for the institution's response to student crises;
17. coordinating student development programs and services with academic affairs, administrative affairs, institutional advancement and other major components of the institution, and;
18. assisting students in meeting their financial needs (see section on Financial Services.)

Office of Counseling

The Counseling Office assists students in their educational process by stimulating self-awareness, self-direction and the understanding of other people. The faculty in this office is trained in the behavioral sciences and specialize in psychology, counselor education, human relations and social work. Listed below are the services provided.

Instructional Program

Counselors in the Division offer to first-year students two credit bearing courses: *Developing Individual Life Styles* and *Developing Success in College*. These courses help students to improve their study skills and to understand aspects of their intellectual, social, emotional and career development and foster success in college. A two-credit course, *Individual Career Development*, is available to all students. In this course, students explore vocational choices, the world of work and job search techniques.

General Counseling

A faculty of experienced counselors provides counseling services to students to assist them to overcome interferences with their academic achievement and to promote their intellectual, social, emotional and career development. Counselors help students with their personal, social and family concerns, maximize academic achievement, and make decisions about their choice of career or major, and academic difficulties in studying, etc. The counseling assistance may be rendered through group or individual contacts, and makes full use of informational files on careers, graduate and professional schools, community resources, etc. When counseling assistance of long duration is required, students are referred to specialized community agencies. Counselors function not only in an office setting, but also assist students through a variety of activities, such as seminars, theme programs and workshops, which enable the counselors to reach out to the entire campus.

First-year Academic Advisement Services

The Academic Advisement Program provides opportunities for personal dialogue between the faculty and students. Entering first year students are advised by counselors in the Division and then by faculty members who teach in the student's major field. Within the scope of this program of intensive and frequent advisement, the basic curricula are adapted, wherever possible, to meet the needs, strengths and career choice of individual students. Advisors also focus on students' study habits and the clarification of educational goals. Besides individual advisement, faculty members are involved in helping students to secure assistance from other available sources.

Veterans Counseling

A number of special services are offered including the processing of applications to the Veterans Administration for health, educational, employment, and loan benefits to which student-veterans may be entitled; aid in initiating and maintaining monthly subsistence allowance payments; a tutorial aid program administered under a provision of the GI bill; and referral to appropriate community service agencies for supplementary assistance. The counselor engages in an extensive community-wide outreach program, contacting veterans, determining their needs, and acquainting them with their benefits. Those educationally unprepared are advised of special programs which they may attend under full benefits and without loss of future college entitlement.

The following policies have been adopted to accommodate the special needs of York's veterans:

1. Partial deferral of tuition and fees, upon application, for those veterans entitled to benefits who are unable to make payment at registration;

2. For matriculants who have completed 12 credits at York College, the granting of 4-8 free elective credits for one year or more of active military service; 4 credits for less than one year but more than six months of active military service.

Students who are eligible for veterans benefits should consider the following when planning their class schedules for the Fall and Spring semesters:

TO QUALIFY FOR:	YOU MUST CARRY A PROGRAM OF:
full-time benefits	at least 12 credits
3/4-time benefits	at least 9 credits
1/2-time benefits	at least 6 credits

If you carry a program of 5 credits or less, you will not be eligible for benefits other than tuition fees.

International Student Office

Applicants with F-1 student status are accepted as matriculated students only. Students with this status must attend full-time and pay the non-resident tuition rate. In order to obtain the I-20 Certificate of Eligibility from the college, students must present a completed "Affidavit of Support" with financial documentation from the sponsor. Students are required to subscribe to a medical insurance plan and arrange for their own housing. Scholarships are not available.

To ensure a smooth transition of the adjustment period for an international student, the International Student Office is committed to offer assistance in the academic, social, cultural, personal and immigration matters whenever there is a need. The Coordinator of the International Student Office is always available to speak with students regarding any situation that may arise. The office also offers information about programs of study abroad and CUNY Citizenship and Naturalization service.

An international student must consult the International Student Office:

1. before accepting employment;
2. before leaving the United States, either permanently or temporarily;
3. if transferring to another institution;
4. if withdrawing from the College before the end of the semester;
5. for information on employment and practical training both prior to and after graduation; and
6. if dropping below full-time status within a semester.

As part of the admissions process, the initial I-20 Form is issued by the Admissions Office. The International Student Office (Rm. 1H06C) performs all other services for F-1 students.

Office of Career Services

The Office of Career Services (OCS) at York College is committed to the principle that the development of any person's career takes place over most of his/her lifetime. A person should not expect to remain in one occupation or career for the duration of his or her adult life. It is important that one learns to take charge of his or her career development.

This office focuses on providing career development assistance in a partnership effort involving students, faculty, business, industry and a wide variety of community agencies and organizations. The professional staff is available to help individuals increase self-understand-

ing of their abilities, interests, values and goals. In addition, students are schooled in researching careers and effectively utilizing the latest technological tools for that all important “*job search*.”

All students are encouraged to register with this office during their first semester at York College in order to gain maximum benefit from the following services:

- Internet access and e-mail address
- Career exploration guidance
- Personal interest, skill, and value inventory
- Inclusion in a national database for internships, summer jobs, part-time jobs, full-time jobs and career opportunities
- Workshops on resume writing, interviewing skills and job search techniques
- Seminars on discipline related career opportunities
- Job fairs
- Computer assisted career development tools
- Career resource center
- On-line access to up to the minute updates on all of the above.

The Office of Career Services strongly encourages all students, particularly those with little or no work experience, to take at least one internship prior to graduation. Coop 101 is the career development course that is required prior to applying for an internship. Students may register for this as early as their second semester at York. It is open to all students, regardless of their major. Coop 111, 211, 311 and 411 are the courses one takes to receive credit for an internship. More information on internships and authorization to enroll in Coop courses may be obtained from the OCS.

The Office of Career Services is located in 3E03. You may check for current office hours and information concerning special events and services by going to our website at <http://career.york.cuny.edu>

Student Support Services (SSS)

Student Support Services provides services to eligible students with a need for academic support. Students who are from a low-income family or first-generation college students (i.e. neither of their natural or adoptive parents have a bachelor's degree), especially freshmen, are strongly encouraged to apply.

To help participating students succeed at York, SSS offers the following services and activities:

1. Individualized or small-group tutoring in most academic subjects;
2. Computer-assisted instruction (CAI) for additional exposure to such subjects as calculus, economics, statistics, chemistry, biology and physics;
3. Confidential personal counseling;
4. Academic advisement and assistance in course selection;
5. Assistance with financial aid applications;
6. College success skills workshops;
7. Freshman orientation and mentoring;
8. Computerized career exploration and guidance;
9. Book exchange program.

Student Support Services is located in Room 3E03. The telephone number is 262-2423.

Health Services Center

The College Nurse serves as the Director of the Health Services Center, Community Health Outreach Program Coordinator, and liaison to hospitals and clinics. Additionally, she serves as liaison to the Health Marshal Program which is a peer education program geared primarily toward informing students about HIV/AIDS and other health issues. An active volunteer program is also conducted from the center.

Emergency and first aid treatment are rendered to the sick and injured; counseling and educational literature are available for a variety of health related areas including nutrition, weight control, preventive medicine, family planning, etc.

All accidents that occur on campus **must be reported** to the Health Services Center and/or the Security Office **within 24 hours** of the incident or the **next working day**. If the student is incapacitated, a telephone call would suffice to secure an accident form which must be completed and returned to the center immediately for processing.

All students are required to show proof of immunity to measles, mumps and rubella. Certifying documents are received and maintained in the Health Services Center. In an effort to secure a baseline health status for each incoming student, a physical examination is requested. Physical examinations are important for the student's well-being and should be submitted to the Health Services Center annually. Forms may be secured from the center.

The Health Services Center is located in the Academic Core Building, Room 1F01.

Office of Student Activities & Campus Programs

A variety of groups — academic, social, athletic, cultural, career, recreational, political, and special interest — adds an additional set of valuable learning experiences for students and faculty. Each group established on campus must meet approved criteria to gain status as a College-chartered organization. In the same way, programs and events which occur on campus should fit within the general framework of the College's policies and provide additional settings for personal interaction. Students are encouraged to develop programs which center around current issues facing college students. Faculty advisors should assist and consult with students in the development of programs, and provide resources and assistance as needed. These organizations and events are meant to enhance the maturational development, leadership skills, and socialization processes. There is a strong focus on understanding the nature of groups and organizational behavior with many groups focusing on the development of cultural heritage and the promotion of cross-cultural appreciation. The Office of Student Programming & Leadership Center is located in Room 1E01.

Services for Students with Disabilities

York College provides an array of services, activities and accommodations to students with disabilities, mainly through two offices - the Coordinator of Disability Services, and the new York Enrichment Services for Students with Disabilities. A newly opened Assistive Technology Resource Room, jointly run by these two offices, is located in the Library. All students with a documented disability are encouraged to sign up in Room 1G02 (Tel. 262-2272), and take advantage of the following free services.

Coordinator of Disability Services

Individual and group counseling services are provided to meet the

needs of physically and learning disabled students. Individualized orientation and registration assistance, readers, and interpreters are provided. When appropriate, arrangements are made with instructors to provide modified instruction and examination procedures.

York Enrichment Services for Students with Disabilities

York Enrichment Services (Y.E.S.) for Students with Disabilities provides specially designed activities and services to eligible students, especially freshmen students. The Y.E.S offering includes:

1. Individualized tutoring in most subject areas;
2. Personal, academic and career counseling;
3. Academic advisement and registration assistance;
4. Freshmen orientation and mentoring;
5. Computer Assisted Instruction (CAI);
6. Textbook loan program;
7. Computerized career exploration and guidance;
8. Assistance in use of adaptive equipment and technology;
9. Coordination of disability-related accommodations, services, activities and referrals.

Y.E.S. is currently located in Room 1G02, and its telephone numbers are 262-2322 and 262-2159. Referrals from faculty, staff and students are welcome.

York College Women's Center

The Women's Center provides supportive services for the growth and development of women students as they pursue academic and life-long goals. The Center accomplishes its mission, in part, through informational seminars, workshops, and conferences which focus on: Self-Empowerment, Stress and Coping, Time Management, Parenting Workshops; Family; Relationships; Health Forums, Career Planning; Money Management; Sexual Harassment; Domestic Violence; Legal Rights, etc. It holds on-going discussion groups and rap sessions and has a comprehensive listing of resources and referrals.

The Center also offers individuals the opportunity to volunteer and help others through its mentoring programs.

The Women's Center has a warm and friendly atmosphere where everyone is welcome to work or relax in a comfortable environment. Although services are primarily geared toward the female student, the Center is committed to providing programs and services for male students and the entire York College community.

Student Discipline

Student discipline is a matter of concern for the entire College Community. Disciplinary codes are developed through York College Faculty-Student Committees, the York College Senate, and the By-laws of the Board of Trustees of the City University of New York. The Vice President for Enrollment Management and Student Development and his/her assistants enforce College policy, often with the recommendation of the Faculty-Student Committee on Discipline. In this way, due process for students and the integrity of the College and its relationship to the community are guarded. All students should become familiar with the Resolution for the Maintenance of Public Order on Campuses of The City University of New York, and with York's regulations regarding conduct on campus.

Conduct on Campus

York College will NOT permit:

1. The sale, purchase, use or possession of illegal drugs;
2. The use of alcoholic beverages in any area not covered by special permit or license;
3. Any form of gambling;
4. The misuse of University identification and/or the name of the College;
5. Academic dishonesty of any type, such as cheating or plagiarism, including the buying, selling or exchange of term papers. Section 213-b of the Education Law makes the buying, selling or exchange of term papers illegal. Anyone found guilty of this offense can receive a \$300 fine and/or three months in jail. Students found guilty are also subject to College disciplinary action.
6. The use of false records or documents or false information to gain admission, obtain financial aid and receive college-related services. Such students will be held liable by the College for any financial aid received and tuition owed as the result of fraudulent action. All rules and regulations may be found in the Board of Trustees of The City University of New York Guidelines and By-Laws, which are available in the York College Library.

Any infraction of the code of conduct may result in immediate dismissal following a disciplinary hearing.

Plagiarism

The definition of plagiarism is misrepresenting the authorship of, or otherwise falsifying work submitted for academic credit.

This definition means:

- a) that the work may not be wholly or partly written by a person other than the student who claims authorship of it;
- b) that any thought which the student expresses in the work but which is derived from some other person's conversation or writing and is distinctive to that conversation or writing, should have its source cited, whether the thought is reproduced verbatim or merely paraphrased;
- c) that any word or phrase derived from another person's conversation or writing and peculiar to his style of expression or to the particular context from which the student takes it, should have its source cited;
- d) that any diagram or pictorial representation derived from another person's writing or lecturing should have its source cited; and
- e) that any research on which the work is based that is done by a person other than the student should be acknowledged in writing as having been done by that other person.

Penalty

The penalty for academic plagiarism or cheating shall be failure in the course. The failure shall be indicated by an "F" grade and the grade shall be irremovable. If a student is found guilty of academic plagiarism or cheating by clear and convincing evidence, the student shall not at any time be permitted to withdraw from the course or to take a leave of absence to avoid receiving the "F" grade. The "F" grade shall be mandatory. Upon being convicted of the offense a second time, the student shall be expelled from the College and the student's transcript shall so indicate. This penalty shall be mandatory.

Right of Appeal

Any paper or examination that a teacher believes to be an instance of plagiarism or cheating is to be so marked by the instructor, and the student is to be informed by the instructor in writing of that finding. The accused student shall have three weeks from the letter's date to initiate a written appeal. Failure to do so within this period shall constitute acceptance by the student of the finding.

The teacher's letter of notification shall also contain a statement of the appeal procedure, which is that the student may appeal to the persons mentioned below, but only to them and only in the order in which they are listed:

- a) the Discipline Coordinator
- b) the Department Chair
- c) the Committee on Academic Standards

Sports at York College

Under the auspices of the Department of Health/Physical Education and Gerontological Studies & Services, the intercollegiate athletic program at York College supports varsity teams including Men's and Women's Cross Country, Men's and Women's Volleyball, Men's and Women's Basketball Men's and Women's Indoor Track & Field, Men's and Women's Outdoor Track & Field, Men's Soccer, and Men's and Women's Swimming, Softball and Tennis. These teams compete with colleges from within The City University of New York and other metropolitan area colleges. York College is a member of N.C.A.A., Division III, Metropolitan Tennis Conference, CUNY Athletic Conference, North Eastern Collegiate Volleyball Association (NECVA) and the Eastern Collegiate Athletic Conference. It is expected that new teams will be organized in accordance with student interest and financial ability. Men and women are encouraged to participate in the intercollegiate athletic program. Practice times are usually between the hours of 4:00-6:00 pm. Potential athletes should attempt to register for early classes. Student-athletes are required to register for and maintain the minimum number of credits (12 credits/hours) during the competitive season. Athletes should also register for independent study, Physical Education 291-294 (one course per sport season). A maximum of four credits is permitted. Student-athletes must be medically and academically cleared before participating on any intercollegiate athletic team.

Sports Medicine

Sports Medicine coverage is provided to all York College athletes by the Athletic Trainer (AT) or certified Athletic Trainer. The Athletic Trainer acts in conjunction with the Office of Public Safety in case of emergency or injury. The Athletic Training Office is open to all student, athletes, faculty and staff.

Intramurals at York College

York College provides a wide variety of intramural activities. These activities may include basketball, badminton, volleyball, table tennis, swimming, weight lifting, tennis, soccer, and track and field. Students can also request other activities as well, by speaking with the aquatics, intramurals and recreation manager.

Health Promotion Center

The Health Promotion Center located in Room P305 was established to help students, faculty, staff and community members achieve healthy lifestyles. Free health literature is distributed and free health risk appraisals and health screenings are done. Students may work at the center through Field Work experience and Independent Study courses.

York College Association

The York College Association, a State-chartered corporation with a board of directors consisting of students, faculty and administrators, was formed to provide support for college-related events and programs which cannot be funded by the tax levy budget of the College. The major source of funds which the Association budgets is a portion of the General Fee paid by each student at registration. It is the policy of the Association to consider funding activities and programs that are deemed beneficial to the student body as a whole. Any organization which is primarily social in nature or has a restricted membership is not eligible for support by the Association.

York College Alumni Association

The York College Alumni Association was formed in September 1979. Through its quarterly newsletter, it keeps York graduates abreast of alumni news and College activities. The Association seeks to promote the aims of the College, its alumni and students, and the community.

In keeping with these aims, the Association has established a number of scholarships. The York College Alumni Scholarship Fund each year awards scholarships to a York College Freshman, Sophomore, Junior, and Student Athlete; and the Distinguished Graduate Award is presented each year to a graduate who has achieved high honors. The Association's scholarships and awards recognize students with high academic achievement and active community involvement.

In May of each year, the Association hosts Alumni Weekend, capped off by a Scholarship Dinner Dance. The various special events sponsored by the Association enable the alumni to renew old acquaintances and foster new friendships. The Association encourages students of all levels to be aware of the alumni and its various events.

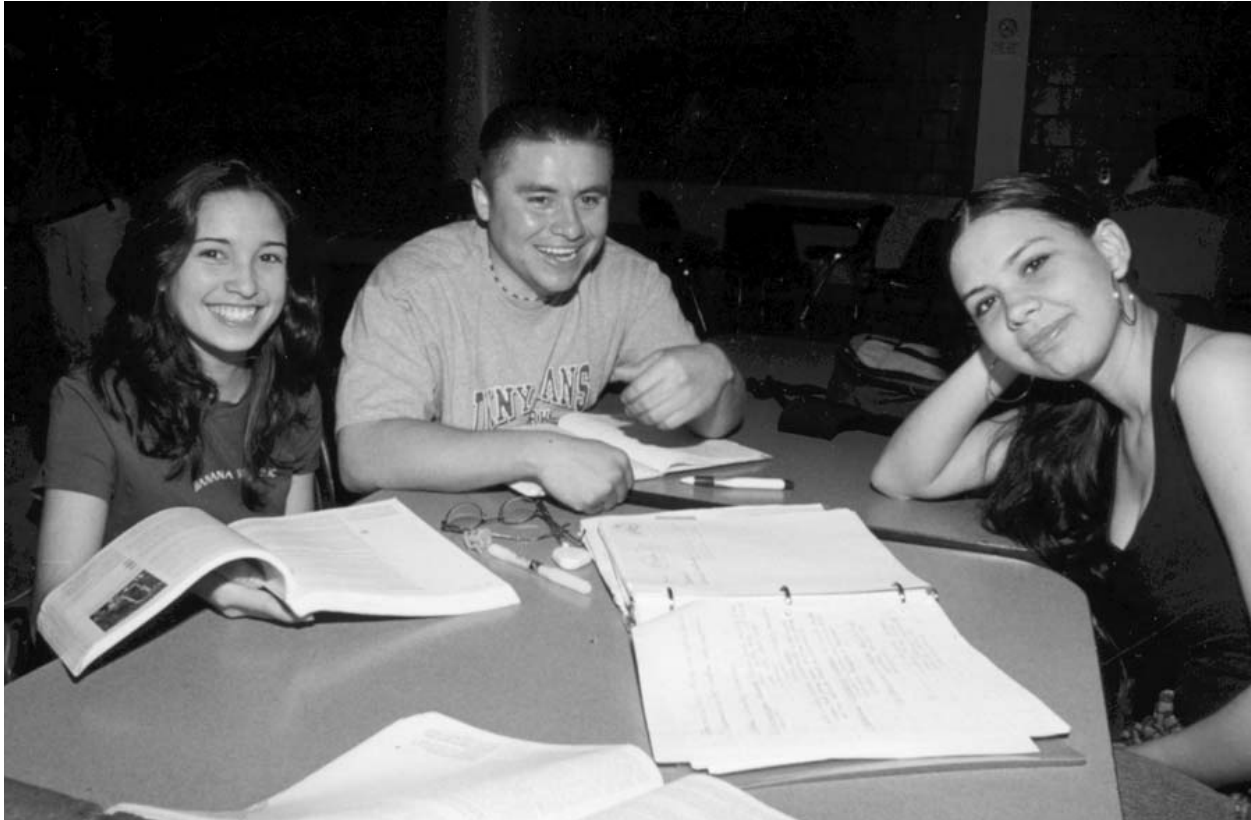


Office of Evening/Weekend Administration and Community Relations

York College enrolls a significant number of students who attend classes in the evening and on weekends. The Office of Evening/Weekend Administration and Community Relations, located in Room AC-2H05, maintains hours during the evening and on Saturdays to better serve students.

One of the major functions of the Office is to serve as the administration's evening and weekend representative for the Divisions of Academic Affairs, Student Development and Administrative Affairs. It is responsible for the coordination of support services for evening and weekend students. The Office performs many functions that are not ordinarily available to evening and weekend students such as short-term intervention for students with life problems and intake of forms/requests for the Registrar, Bursar, Financial Aid and other administrative offices.

Lastly, the Office serves as the College's liaison to community groups to better incorporate community activities with the mission and goals of the College.



Learning Resources

Academic Computing & Educational Technology

The Center for Academic Computing and Educational Technology is committed to encouraging uses of technology in support of the academic program, to the growing integration of all academic technologies with one another, and to the development of literacy in the field of computers and other technologies among all York College students. The Center provides, manages, and coordinates with academic departments a wide range of technological and computing resources to support instruction, research, and administration.

Academic Computing Facilities

College-wide Computer Network: The College-wide Computer Network provides network connections to support all academic and administrative areas of the college. All offices and labs on campus are connected to the network, thus providing a seamless sharing of the college computer wireless connectivity. The Network is based on a switched Fast Ethernet and Gigabit Ethernet backbone. A dedicated high-speed ATM link connects the York College Network to the University Computer Center (UCC), thereby providing high-speed Internet access throughout the College. A recent \$1 million dollar project to upgrade the network infrastructure to a gigabit backbone

and Cat 6 fibers is poised to vastly improve data, voice, and multi-media applications.

Wireless Access: The Wireless Network (WLAN) may be accessed from many areas on campus, such as lecture halls, the library, atrium, conference rooms, faculty dining room and student cafeteria. This enables students, faculty, and staff to have wireless access to Internet resources from their laptops and desktops.

E-mail Support: The Center provides e-mail accounts for all students, faculty, and staff in support of their academic pursuits.

Computer Labs: A large number of Internet-capable Pentium 4 computers are assigned to College-wide computer labs, specialized departmental labs, learning centers, the Library, and faculty offices to support instruction and research.

The Classroom Building (second floor) houses a College-wide drop-in lab with 64 computers and five classroom computer labs with 30 computers each. These labs are fully equipped with Pentium 4 computers and each contains a high resolution LCD data/video projector that allows a computer image to be projected onto a large screen to enhance class instruction. There is a local area network in all of the labs. A computer laboratory complex in the Academic Core (2E03) is similarly equipped with 70 networked computers. It also serves as a network hub, the Main Data Facility (MDF) for the College-wide network system.

Computer Software: An expanding software library housed in the Computer Lab (C201-Classroom Building) currently contains over 1000 titles recommended by faculty in support of academic offerings at the College. The software collection is constantly being updated. Special software is also provided to meet the needs of visually challenged individuals. The York College [Computer Software Catalog](#) can be obtained in Room 4G04 in the Academic Core.

Periodicals, reports, documentation for software and hardware, software evaluation journals, and indexes are also available in the software library.

Through the CUNY site licensing program, the Center makes available additional licensed software titles to support instruction and research. For questions, contact the site licensing liaison (C201).

Specialized Computer Facilities

Music students use Pentium computers and sound synthesizers in the Computer Music Studio (1B13) to create and study music.

The Fine Arts computer laboratory (1A01) is equipped with Macintosh G4 and iMac computers, digitizers and printers.

The SEEK computer lab provides 24 computers to meet the needs of SEEK students (1C08).

The Testing Center and Bridge Lab with 27 and 24 Pentium 4 computers respectively, are dedicated laboratories for evaluating prospective students and for the support of students with special needs (1G05).

The Student Government provides funding to support a 20-station Pentium 4 computer lab for drop-in use by students (3rd Floor-Academic Core).

The Writing Center (1C1B) contains Pentium computers and printers for students seeking help with research and writing skills.

Networked computers are also housed in several natural sciences and social sciences departmental labs interfacing with specialized lab equipment.

Networked computers are placed in all faculty offices and labs for curriculum development and research.

The York College Library has 50 Internet accessible computers for electronic searches of databases and Internet resources by students, faculty and staff.

Help Desk and Technical Support: The Help Desk provides hardware and software trouble-shooting and technical support for faculty and staff throughout the College. The Help Desk may be contacted at ext. 2752.

Web-based & Online Learning: The Center maintains a dedicated server to host Blackboard, a web-based course management system online instruction. Blackboard functions for either web-enhanced or distance learning. York faculty members offer three types of Blackboard bases courses: asynchronous, hybrid, and web-enhanced.

Educational Technology

Instructional Development: The Center advises and assists faculty members to identify ways that technology can help them meet their instructional goals. The design and implementation of innovative approaches to learning is a central concern of the Center, which works in areas such as web-based learning, interactive video, television, and multimedia instruction.

Smart Classrooms and Lecture Halls: In the network infrastructure upgrade, all classrooms and lecture halls have been equipped with "smart" technology--each room has Internet connectivity and the ability to provide LCD projection for instructional purposes. In addition, five fully equipped 90, 150 and 250-seat lecture halls offer remote-control rear projection capability as well as Internet connectivity.

Classroom Support Services: Classroom services provided by the Center are extensive and make possible the presentation of a wide variety of media in the classroom. Circulating equipment includes LCD computer projectors with laptop computers; VHS and 3/4" U-Matic videocassette players and monitors, CD and DVD players, record players, audiocassette players and recorders, 35mm slide and 16mm film projectors, as well filmstrip, opaque, and overhead projectors. PA systems and microphones are also available.

Media Collection: The Center makes available for instructional purposes an excellent media collection of over 3,000 titles of films and video in addition to slides and filmstrips. Faculty recommendations for new materials and previews for evaluations are invited. The York College [Educational Media Catalog Vol. I: Subject Guide](#) and [Vol. II: Alphabetical Guide](#) can be obtained in Room 4G04.

CUNY Instructional Materials Consortium: Through its participation in this Consortium, the Center provides faculty access to a collection of more than 20,000 titles of film and video from other CUNY college. Requests must be received at least two weeks prior to anticipated use. For titles and descriptions, see the [Titles Catalog](#) published by the Instructional Consortium of CECT/CUNY (4G04).

Television Production Facility: Instructional programming can be created in our live-to-tape television production facility, a fully equipped 3-camera studio and audio production facility. Portable camcorders are available to faculty for field or classroom use. Also, satellite fed programs and teleconferences can be received and distributed to a number of lecture halls and classrooms on campus.

Distance Learning Lab: Two-way video conference instruction is possible through an ATM line to the CUNY-wide Multimedia Distribution System (MDS). The Distance Learning lab can send and receive live videoconferences to all CUNY senior colleges and some community colleges. It can also be connected to equipped colleges and universities nationally through ISDN lines. The Lab includes a presentation room with a capacity of about 20 participants and a control room. Material sources include a 36" touch screen connected to an Internet ready computer, video, CD-ROM, document camera, and satellite programs. Faculty members are encouraged to use the DL Lab to develop distance-learning courses.

Multimedia Design: Multimedia design services are available for the creation and development of visual instruction media, including forms development and design, transparencies, illustrations, chart and graph design, digital imaging image manipulation and enhancement, computer graphics, and web page design.

Language Labs: The Center's learning labs make available current technology for both group instruction and individual learning in language acquisition and other disciplines. One lab is equipped with 35 learning stations with audio and video cassette players, offering a variety of foreign language programs: French, German, Italian, Spanish, and ESL. A second lab is being upgraded to a CD-ROM language learning facility.

Academic Technology Workshop: The Center conducts a series of academic technology workshops every semester on current topics related to technology and pedagogy. These workshops train faculty members and staff and enable them to bring the latest technology into their classrooms and work areas.

Library Services

The York Library provides a broad, balanced collection for undergraduate and independent study.

The Library collection is available in open stacks and is arranged according to the Library of Congress classification scheme. The present collection comprises approximately 170,000 volumes in book stock and periodicals. In addition, there are 47,000 reels and 90,000 microfiche. The Library offers 9,000 volumes of government documents in hard copy and on microfiche. The periodicals collection is composed of 1,100 titles, with outstanding U.S. and foreign newspapers as a special resource for research.

Special Collections in the Library include the Human Relations Area File; Library of American Civilization; representative American and Foreign Newspapers, United States Geological Survey Maps; American Federation of Labor Records, John L. Lewis Papers, Morris Hillquit Papers, Papers of the NAACP, and the United Negro College Fund Archives.

The Library houses a Curriculum Materials Collection which operates in support of Education and other departments. The collection contains a number of fiction and non-fiction titles commonly used in school libraries, including: textbooks, curriculum guides, and educational topics files. Also available in the collection are kits, various types of realia, and study prints.

The Library holdings are augmented locally through inter-library loan arrangements within the CUNY system and with The New York State Inter-library Loan System (NYSILL). Inter-library loan access to nation-wide holdings is available through the On-line Computer Library Center (OCLC) data base, The Library of Congress National Union Catalogs and New Serial Titles. Both faculty and students may avail themselves of these local and nation-wide sources. The York College Library provides access, by means of an On-line Union List, to the holdings of the serials in more than 1,700 libraries throughout the United States and Great Britain. This data base also includes the serial holdings of the City University Libraries

The Library cooperates closely with all academic departments in making available special reserves and loans. Identification cards must be presented whenever materials are charged out. With the exception of reference and reserve materials, all materials circulate for a period of three weeks.

Food and drinks are not allowed in the Library.

Subject to change, Library hours are 9:00 A.M.-8:30 P.M. and 8:30 P.M.-11:00 P.M. (study only) Mondays through Thursdays; 9:00 A.M.-5:00 P.M. Fridays; 10:00 A.M.-4:00 P.M. on Saturdays.

The Writing Center

The Writing Center offers drop-in and by appointment tutoring in Room 1C18. Tutoring is available to all York students without charge. Trained tutors provide help with general problems of organization, development, and correctness, and with passing CUNY's Proficiency Examination (CPE). For information, go to Room 1C18 or call 262-2494.

Tutorial Services

A variety of tutorial programs are offered on campus:

Comprehensive Freshman Year Program. Freshmen and students on probation may obtain supplemental instruction, classroom assistance and group and one-on-one tutoring.

Disabled Students Tutorial Services. Tutorial services, including readers, writers, proctors and lab assistance, are offered to disabled students by Student Development/Counseling and Career Services.

ESL. The Department of Foreign Languages offers one-on-one and group sessions to all current and former ESL students.

Reading Laboratory. Students in reading programs and SEEK students may obtain take-home reading materials and participate in one-on-one sessions and self-tutorials through the reading laboratory.





Special Programs

The CUNY Language Immersion Program (CLIP) **Dept of Foreign Languages/ESL/Humanities**

Recent admissions policy changes within CUNY have resulted in diminishing opportunities for students whose native language is not English. In response, the University established the Language Immersion Program to cater primarily to the needs of entering freshmen whose limited English proficiency is likely to be a barrier to their academic success and who choose to spend more time learning English in an academic environment before formally enrolling in their college courses.

CLIP-York, established in 1996, is designed to improve the participants' overall preparedness for college study and enhance their understanding of the non-academic aspects of the college experience. The program offers 25 hours a week of instruction in day and evening sessions for three cycles. As participation in the program is voluntary, students may wish to exit the program and join their home campus at the end of any given cycle.

The program's instructional philosophy reflects a holistic approach to language development that integrates listening, speaking, reading, and writing in the context of academic preparation. Students are also introduced to the use of libraries and the internet for research purposes, with an emphasis on developing the skills of enquiry, critique, and analysis. Academic advisement and tutoring supplement classroom instruction. Another programmatic focus of CLIP is to facilitate CLIP students' interaction with the larger college community and to enhance their awareness of the multiple facets of the college culture. To this end, numerous orientation sessions and workshops are organized in any given cycle.

York College is the only college where CLIP is housed in an academic unit, the Department of Foreign Languages/ESL/Humanities. This ensures that the students make the smoothest and most successful transition to the regular campus programs. Since its establishment, CLIP-York has contributed to the academic success of thousands of students who came in with substantial linguistic—and often academic—needs.

CLIP Office:
AC 3C08
York College
Telephone # 1-718-262-3766

Staff:
Director: Hamid Kherief
Assistant: Claudia Hortua

Faculty: Elena Arakelian, M.A.
 Lucia Fahey, B.A.
 Omar Iratni, M.A.
 Donald Portolese, M.A.
 Joseph Proxam, M.A.
 Zohra Saad, Ed.D.
 Steve Weisblatt, M.A.

Community Professional Program

The Community Professional Program was established at York College to enhance the educational opportunities for adult students. College credits are granted in recognition of voluntary work that reflects a variety of quality learning experiences. (Paid experiences may be considered in conjunction with voluntary work.) Each experience must have taken place within the United States and must be verifiable by three people who have knowledge of the student's activities.

A pre-application interview is mandatory at which time the following requirements will be explained in greater detail. Student must:

- be 25 or older
- have 3 years of intensive community experience
- have completed a minimum of 28 credits at York College
- have passed all skills assessment tests
- have minimum GPA of 2.50 on all work completed at York College
- have completed less than 91 credits

Students are eligible to pursue any degree program offered by the college, and may receive a maximum of 30 credits for their life experiences. These service credits are used only as free electives toward the required 120 credits for the baccalaureate degree and cannot be used to meet liberal arts, general education, or major requirements (*See General Education Requirements*).

The deadline for submitting an application for the Fall semester is November 30 and for the Spring semester the deadline is April 30. Applications can be obtained in the Office of Evening and Weekend Administration, Room 2H05.

Adult and Continuing Education

Adult and Continuing Education (ACE) seeks to fulfill York College's commitment of access to and excellence in higher education. It serves the educational needs of both working and non-working adults who wish to pursue a variety of non-credit course offerings in a college setting.

ACE offers men, women and young adults in the community the opportunity to broaden their horizons through literacy, intellectual study, vocational activities, and self enrichment. It operates a Community Learning Center, the Office of Continuing Education, a Small Business Development Center, and the Center for Remanufacturing and Technology Transfer.

The Learning Center

The York College Learning Center, is dedicated to providing educational and support services through a variety of New York City and State and federal grant funded programs.

1. *The NYC Adult Literacy Initiative* is funded by both the City and the State. This program is designed to provide adult basic education, high school equivalency preparation in English and Spanish and English-as-a-Second-Language (ESL) instruction. Students who enroll in the NYCALI Program may choose either a morning or evening schedule. In addition, students receive academic and career counseling as well as referral services.
2. *The English Language/Civics Education Program* is funded exclusively by the New York State Department of Education. The purpose of this funding is to offer ESL integrated with civics education instruction to non-English speaking immigrants. Citizenship preparation classes are also offered to students enrolled in the EL/CE program. Classes are offered on weekday mornings, evenings, and Saturdays.
3. Funded by the U.S. Department of Education, *The Educational Talent Search Program*: offers counseling services, technical assistance and information workshops to the Southeast Queens community. Talent Search counselors assist high school and GED students to choose educational programs suited to their needs, answer questions students or parents have regarding college, assist in filling out school admission applications, file and secure financial aid, and secure college testing information and procedures. Additionally, information workshops are offered to students and their parents on financial aid, loans and scholarships, career decision-making and non-traditional educational programs. The Talent Search Programs also offer SAT preparation classes.

Continuing Education

The Office of Continuing Education delivers a broad spectrum of low cost, non-credit educational opportunities including adult basic education, ESL and GED preparation, professional and career development skills and personal enrichment.

Basic Education; including English As a Second Language, High

School Equivalency, reading, mathematics and writing.

Career Related Preparation and Training; including courses for municipal workers and courses to help people prepare for or upgrade their positions in various vocational fields, e.g., legal secretary, medical billing, computer studies, Cisco, real estate, accounting, and paralegal.

Self Enrichment; including courses in foreign languages, swimming, guitar and hair braiding.

The SBDC Program

The Small Business Development Center, administered by the State University of New York, provides management and technical assistance to start-up and existing small business firms in New York State.

SBDC Services: Through direct counseling, the York College SBDC provides a wide range of management and technical assistance services. A representative sample of these services includes:

- Business Plan Development
- Small Business Start-Up
- Existing Business Expansion
- Organizational Structures
- Accounting
- Financial Planning
- Export Assistance
- Cost Analysis
- Loan Information
- Marketing
- Training Programs

Adult and Continuing Education represents York College on various local community boards and committees and works cooperatively with local community organizations such as the Jamaica Service Program for Older Adults, the Southern Queens Park Association, and others to address the educational needs of special populations. Moreover, through its cooperative work with business groups, community, and city agencies, it seeks to coordinate the efforts of a total community consortium providing an optimal response to the educational needs of the diverse southeast Queens population.

Academics

Advisement

Academic Advisement Policy

York College is a student-centered institution whose mission is to prepare students by maximizing each student's intellectual, professional and personal growth. To this end, all students are entitled to receive accurate and timely information that will assist them in formulating plans to attain their academic goals. This includes advice about academic programs, course registration, and careers and opportunities for advanced study beyond the bachelors degree.

All students have the responsibility to:

- become knowledgeable about general college requirements and the requirements of their major field of study;
- avail themselves of the appropriate college bulletin, schedule of courses and any other materials pertinent to planning and carrying out their academic programs;
- make regular appointments with their academic advisors and, when the meeting pertains to course selection for registration, arrive with tentative course schedules already prepared;
- generally take full responsibility for planning and carrying out a program of study.

All full-time faculty have the responsibility to:

- serve as academic advisors to students, making sufficient time available throughout the academic year for academic advisement responsibilities;
- keep themselves informed about advisement procedures as well as those curricula and degree requirements pertinent to the individual faculty member's advisement assignments;
- advise students about the general college graduation requirements and of major requirements; inform students of fieldwork, cooperative education and internship requirements or opportunities; certify that students are qualified to enroll in such experiences;
- provide students who have defined their academic and career interests with advice about careers in their major fields of study and about opportunities for advanced study beyond the bachelor's degree.

Academic Advisors

Non-SEEK and ESL Students

Students with less than 27.5 credits are advised by counselors in the Counseling Center in 1G02. Students with 27.5 or more credits who have a major are advised by faculty in their major department; those undecided as to their major field will be advised in the Academic Advisement Center in 2C01.

SEEK and ESL Students

SEEK students are advised by SEEK counselors and ESL students are advised by the coordinator of ESL. SEEK freshmen and sophomores with majors are required to receive their advisement from SEEK counselors and then by faculty members who teach in the student's major field.

Academic Policies

Registration

General Information

Please consult the Schedule of Classes for complete details concerning registration dates and course schedules. Some courses listed in this bulletin are not offered every semester.

All students should be advised before registering. Students with less than 27.5 credits must have an approved advisement form signed by their advisor in the Counseling Center before they may register. All eligible students are notified by mail regarding registration for the Fall and Spring semesters and the Summer Session. Students are assigned a specific day and time on which to register.

Size of Program

The normal number of credits for a full-time student is 15. The maximum number of credits that a student may register for is usually 18.

A student who wishes to register for more than 18 credits must secure written permission in advance of registration from the Committee on Academic Standards and will be charged excess credit fees. (See the section on Tuition and Fees.)

Students on probation may register for a maximum of 12 credits.

Procedures for Change of Program and Withdrawal from a Course

During the first week of classes, a student may withdraw from one or more courses, add courses or change from one section to another of the same course. During the second and third week, a student may only withdraw from a course or courses. No other program changes will be permitted.

Withdrawals during these first three weeks will not appear on the student's transcript but the student may be liable for tuition. There is no fee for withdrawals only, but there is a \$10 fee for all other program changes.

A student may also withdraw from a course or courses from the fourth through the tenth week of classes by applying to the Office of the Registrar. This action must be recorded on the student's record with a grade of W, in accordance with the regulations of The City University. A student who finds it necessary to apply for permission to withdraw from a course or courses after the tenth week must apply during the semester the course is being taken, as follows:

- a. all students, except those in the SEEK Program, must apply directly to the Committee on Academic Standards;
- b. students in the SEEK Program must obtain approval from their faculty counselors before applying to the Committee on Academic Standards.

Students must continue to attend class(es) until the Committee grants approval of withdrawal. The Committee will only grant approval of such withdrawal if evidence can be provided to verify that extraordinary circumstances exist. A student may not receive W grades through

Committee action more than three semesters while attending York College. This will not include semesters for which an official leave of absence has been granted. If a student ceases to attend any course and does not follow the above procedure, the student will be graded WU in the course regardless of when attendance ceased. Effective Fall 1978, there is a two-year limitation on appeals for retroactive change of transcript entry. In emergency situations necessitating a sudden withdrawal from a course or courses, applications for retroactive withdrawal will be considered the semester the student returns to school.

Auditing of Courses

Students must pay the appropriate tuition and fees to audit any course, except for senior citizens, who do not pay tuition. Students who wish to audit a course must receive written permission from the instructor of the course and must submit the permission to the Office of the Registrar. Forms for permission to audit courses may be secured from the Office of the Registrar. Students must register for the course during the regular registration period.

Permits/Concurrent Attendance at Another Institution

A student who attends York College may not attend another institution concurrently. In special cases, the Office of the Registrar of York College may grant permission for dual attendance; however, the request must be processed prior to the registration period of both institutions.

A student with less than an overall C average will not be granted a permit to another college. A student who has completed 64 credits will not be granted a permit to a Community College. For courses which are above the 100 or introductory level, the student must have the permit application approved by the discipline coordinator. A permit will not be granted for more than one half of the student's semester credits, except in extraordinary circumstances. The application is available in the Office of the Registrar.

Independent Study Courses

Courses offered as Independent Studies are limited to York College degree students only. The number of Independent Study credits a student may take will be limited to three in any given semester, with the exception of the Political Science and Psychology programs, where six credits may be taken to satisfy the requirements of internship. In special circumstances, permission for a waiver of this limitation may be granted by the chairperson of the Committee on Academic Standards. Independent Studies courses may only be taken by students in good standing.

Pass/Fail Option

A student not on probation who has earned 28 or more credits may choose to take one pass/fail course per semester for a total of not more than six courses. Courses given on a pass/fail basis, such as Student Development 101-105 and non-major Physical Education 100 and 200-level courses, are not considered in the six-course total.

Courses taken on a pass/fail basis may not be those which constitute the student's General Education Requirements, (Exception: Physical

Education Requirement), or courses that fulfill major requirements.

A student may exercise the pass/fail option any time during the first ten weeks of the semester and may elect to rescind the option up to the the last day of classes (prior to finals). This is done by notifying the Office of the Registrar.

A letter grade is submitted by the instructor and converted by the Registrar to P or F. In the pass/fail option a grade of A, B, C, or D is a passing grade, and an F is a failing grade.

Attendance

Students are expected to attend each class session. There is no cut allowance. Students may be required at any time to account for undue irregularity in attendance by personal explanation to their instructor (and, for SEEK students, to their counselor). Any student who has been excessively absent from a course and does not present adequate documentation to the instructor, may receive the grade of WU (unofficial withdrawal) which is computed as an F.

Students absent for illness for more than one week will be required to present to the instructor medical documentation of the illness, including an indication that they are well enough to return to their classes. Students absent for more than one week for reasons other than illness will also be required to furnish documentation of reasons. Instructors will be asked to report excessive absences to the Office of the Registrar and to the Financial Aid Office.

Classification and Change of Status

Change of Residency Status

Applications for change of status from non-resident to resident are available in the Office of the Registrar, and must be filed by August 1st for the Fall semester, and December 1st for the Spring semester.

Declaration or Change of Major

Students who have decided on a major or have decided to change their major should file a Change of Major card with the Office of the Registrar. Students need to be aware that change of major may have an effect on financial aid eligibility (see the section on Satisfactory Academic Progress.)

Academic Standing Classification of Students

1. Division of the college the student has applied for:

- D** - Day
- E** - Evening/Weekend

2. Billing Code:

- A** - Student pays tuition for matriculated students Undergraduate (enrolled after 9/1/89 but prior to 6/1/92)
- B** - Student pays tuition for matriculated students Undergraduate (enrolled as first-time freshman or non-CUNY transfer students for semesters or sessions beginning on or after 6/1/92)
- C** - Student is not matriculated for a degree

3. Admission Code - identifies student admission status:

- 0** - Non-degree to degree for readmission
- 1** - Continuing (degree/non-degree)

- 2 - Entering freshman or graduate (degree/non-degree)
 - 3 - New advanced standing transfer (undergraduate)
 - 4 - Readmitted
 - 6 - New CUNY permit-in/CUNY B.A.-in
 - 7 - Continuing CUNY Permit-in/CUNY B.A.-in
 - 8 - Non degree to degree (undergraduate/graduate)
 - 9 - Readmitted for graduation
4. Group Number - the students' class is determined by the number of credits completed, as follows:
- 0 - Non-degree
 - 1 - Lower freshman 0-11.5
 - 2 - Upper Freshman 12-27.5
 - 3 - Lower sophomore 28-44.5
 - 4 - Upper sophomore 45-60.5
 - 5 - Lower junior 61-77.5
 - 6 - Upper junior 78-93.5
 - 7 - Lower senior 94-110.5
 - 8 - Upper senior 111-up
 - 9 - Second degree has degree

Procedure for Leaves of Absence

A student may take a leave of absence during the first ten weeks of classes by applying directly to the Office of the Registrar. After the tenth week of classes, a student who wishes to apply for a leave of absence must file a petition with the Committee on Academic Standards. Students who take a leave of absence after the first day of classes are liable for tuition and fees in accordance with the Fee Schedule (see Tuition and Fees). The disposition of the student's petition will depend upon circumstances including instructors recommendations. In the case of students in the SEEK Program, approval of the Director of the SEEK Program is also necessary. No fee is charged to effect a leave of absence.

The frequency with which a student may withdraw from all courses to take a leave of absence shall be restricted as follows:

- a. After the first leave of absence, a student may return the following semester upon the advice of a counselor.
- b. After the second leave, a student must remain on leave at least one additional semester beyond that in which the student takes leave, and may return thereafter upon the advice of a counselor.

Grading Policies

Grading

In courses which carry college credit (with the exceptions indicated) the student is assigned a final grade (see Table 8), or R (unless the student has permission to take the course on a pass/fail basis). The table indicates the index values and the suggested numerical values as a guide for instructors.

Table 8 Grading Practice

FINAL GRADE	INDEX VALUE	SUGGESTED NUMERICAL VALUE
A	4.00	90-100
B	3.00	80-89
C	2.00	70-79
D	1.00	60-69
F, WU, FAB, FIN	0.00	0-59
WA, W	-	-
NC	-	-
P	-	-
R	-	-

Passing Grades

Passing grades range from A to D*. P is a passing grade but it does not affect the student's scholastic index.

* The D grade is not considered a passing grade in certain programs. Please consult individual Major Program descriptions for details.

Failing Grades

Failing grades are F, FIN, FAB, and WU. These grades are computed in the student's scholastic index. Failing grades are not removed from the student's record due to a subsequent successful completion of the course.

Effective September 1, 1990, in accordance with the resolution passed by the Board of Trustees of The City University of New York, an undergraduate student who earns an academic or administrative failing grade that is computed in the cumulative Grade Point Average may retake the course and upon successful completion of the course with a grade of C or better have the failing grade no longer computed into the G.P.A. This resolution applies to grades of C or better received for courses retaken in the Fall 1990 semester and thereafter replacing the index value of failing grades earned in courses taken in the Fall 1984 and thereafter.

The maximum number of failing credits that can legally be excluded from the computation of a student's G.P.A. is limited to 16 for the duration of the student's undergraduate enrollment in CUNY. If a student transfers from one unit of CUNY to another, the number of failing credits replaced in the previous college(s) will be subtracted from the 16 to determine how many failing credits may be replaced during the subsequent enrollment. In order for a grade of C or better to replace a failing grade in the calculations of the cumulative G.P.A., repetition of the course must take place at the same unit of CUNY where the failing grade was originally received. If a student received two or more F's for the same course and subsequently earns a C or better, the initial F's will, subject to the 16 credit limit, not be included in the student's cumulative G.P.A., and the total number of credits of F not cal-

culated in the G.P.A. will be charged against the 16 credit limit. Failing grades may not be partially deleted from the G.P.A. so, for example, if a student has used 14 of the 16 credit limit, a grade of C or better only in a retaken 2 credit or two 1 credit courses may have the F grade deleted from the calculation of the G.P.A. A grade of C or better in a three or more credit course will not be eligible for this treatment. If a student does NOT wish to have a failing grade deleted from the cumulative G.P.A., he or she must inform the Office of the Registrar in writing any time after the second enrollment in the course. The student must be in attendance at the college when the request is made. The G.P.A. calculated on the basis of this CUNY policy is to be used only for the purposes of retention at and eligibility for graduation from the College, including admission to and continuance in a major or concentration. All failing grades will be considered in the calculations for any honors.

ABS/INC Grade

A student who, because of extenuating circumstances, is absent from the final examination and has completed the work for the course with a passing average may be assigned an ABS grade. The student, in consultation with the instructor, has up to three weeks in the subsequent semester within which to take the final and have the grade resolved, even if, not registered in the subsequent semester(s). The grade must be received by the Office of the Registrar by the last day of the third week of classes of the subsequent semester. A student who has taken the final examination, but, because of extenuating circumstances, has not completed the work for the course, and has a passing average may, at the discretion of the instructor, receive an INC grade. The student, in consultation with the instructor, has up to 10 weeks in the subsequent semester to complete the work and have the grade resolved even if not registered in the subsequent semester(s). Grade changes resolving INC grades must be received by the Office of the Registrar by the last day of the tenth week of classes of the subsequent semester. Grades received after the deadline will not be processed unless the student has obtained approval from the Committee on Academic Standards.

The grades of INC or ABS are not considered in computing the academic index. However, if a grade change is not received by the Office of the Registrar within the above specified limits, the grades of INC and ABS are changed to FIN and FAB, respectively. These grades are considered as F grades when computing the academic index. When compiling the Dean's List, ABS and INC grades are calculated as F.

P/NC Grade

Two symbols, P for pass and NC for no credit, are used as grades for all Physical Education activity courses for non-majors and Student Development 101-105. These grades are not considered in computing the academic index.

In addition, for the first 28 credits attempted by matriculated students, a failing grade in a non-remedial or developmental 100 level course will be converted to an NC grade. A student may receive an NC grade no more than twice for any particular course. A third failure to pass the course will be recorded as an F grade. The grade of NC is not removed from the student's record due to a subsequent successful completion of the course. Though the NC grade is not computed in the index for retention purposes, it is always computed as an F for graduation honors and Dean's List. Students should be aware that other col-

leges, universities, agencies and institutions may interpret the NC as a failure.

R Grade

The R grade is used to record a failure in a remedial or developmental course. It carries no grade point value in computing the index for retention purposes. The course must be repeated until the required level of proficiency is attained but a student may receive an R grade no more than twice for any particular course. A third failure to pass the course will be recorded as an F grade. The R grade is always regarded as an F for graduation honors and Dean's List. The R grade is not removed from the student's record due to a subsequent successful completion of the course. Students should be aware that other colleges, universities, agencies and institutions may regard the R as a failure.

W/WU Grade

In the case of a withdrawal from a course, two symbols are used: W signifying withdrawal from a course without penalty, which is recorded on the student's record after the end of the 3rd week of classes; and WU signifying an unofficial withdrawal from a course (see Procedures for Change of Program and Withdrawal from a Course). In computing the academic index, W is not counted, but WU counts as a failure.

Z Grade

The Z grade is an administrative grade which cannot be assigned by an instructor. It is assigned when no grade has been submitted by the instructor. It has no index value and, therefore, is not considered when computing the G.P.A.

WA Grade

The "WA" is a grade assigned by administrative action. WA grades cannot be assigned by an instructor. It is assigned when the student is administratively suspended from classes. It has no index value and, therefore, is not considered when computing the G.P.A.

Procedure for Appeal of a Grade

If a student wishes to appeal a grade that has been received, the student is asked to initially consult the instructor. Should the student desire to pursue this matter further, the student may see the chairperson of the department and finally the Committee on Academic Standards. The Committee can consider adherence to instructors' stated standards (it is suggested that instructors have available in department offices the course syllabus which includes the grading practice for each course) and documented complaints of instructor-student relations which will be kept confidential. The Committee cannot evaluate subject matter, evaluate competence of instructor or compel an instructor to change a grade. The decision of the Committee will be submitted in writing to both the student and the instructor as a recommendation. The instructor will notify the student if the grade is to be changed.

The student may appeal the denial of the petition to the Committee on Academic Standards. Grades are based only on work done during the semester including the final examinations. Grade changes will not be considered for work submitted after the semester has ended except in cases of assigned INC and ABS grades.

There is a two-year limitation on appeals for retroactive change of

transcript entry. Grades cannot be changed once a student has graduated.

Repeated Courses

Credit is not granted for repeated courses that have been passed. However, grades in repeated courses are computed in the student's index. It should be noted that a student may audit a course as described in the procedure for auditing of courses previously indicated.

Computation of Grade Point Average

The scholastic index(GPA) is computed by multiplying the total number of credits earned by the numerical index values of the grades and dividing the sum by the total number of credits attempted, including courses failed. For the purpose of computing academic index neither the credits nor the grades of W, WA, Z, P, R, and NC are counted, while FIN, FAB, and WU are counted as failures. To determine the cumulative point value or deviation value the grade C is used as the reference grade. An overall C (2.0) average is required for graduation, in addition to an overall C average in the major discipline.

Example A:

	Index Value	Credits	=	Points
A	4	x 4	=	16
B	3	x 3	=	9
C	3	x 2	=	6
D	3	x 1	=	3
F	2	x 0	=	0
WU	1	x 0	=	0
TOTAL	16 credits			34 points
	16 Credits Divided Into 34 =2.125 Index			

Cumulative Point Value(CPV) and Academic Deficits

The Cumulative Point Value is computed similarly to the Grade Point Average, but using the values A=+2, B=+1, C=0, D=-1, and F=-2. The major difference in the computation, as compared to the GPA, is that all courses taken at all colleges are included, not only courses that transferred to York. Each students must have a Cumulative Point Value of 0 or greater to graduate from York College. A student with a negative Cumulative Point Value is said to have an Academic Deficit. If a student enters with an Academic Deficit, a notation to this effect appears on the student's transcript along with the grades from previous institutions that are used to compute the Cumulative Point Value.

Example B: A student transferred from another college where the student had 6 credits of A, 16 credits of B, 20 credits of C, 10 credits of D, and 15 credits of F. Upon entering York College, the student has a Cumulative Point Value computed by:

A	+2	x 6	=	+12
B	+1	x 16	=	+16
C	0	x 20	=	0
D	-1	x 10	=	-10
F	-2	x 15	=	<u>-30</u>
Cumulative Point Value:				= -12

This student has an Academic Deficit. In order to graduate from York College, this student's grades at York must be sufficiently high to offset the deficit.

Academic Probation and Retention

Standards for Academic Probation and Retention

The Cumulative Point Value of all previous semesters is determined at the end of each semester, and the academic standards for probation and retention are based on the Cumulative Point Value. It is noted that a CPV of 0 is the minimum required for graduation, in addition to the other graduation requirements.

All Credits Attempted	Minimum Cumulative GPA (Index)
1.50	0-12
1.75	13-24
2.00	25-upward

For transfer students, the number of college credits attempted includes all college credits attempted, including those attempted at other colleges, but the index required for retention purposes is the index achieved only at York College.

Example A: A student who enters York as a freshman with no credits transferred, must achieve an average (index) of 1.5 on the first 12 credits attempted. If the student earns a lower average, he/she will be placed on probation for the following semester. If the student attempts 12 credits the following semester, the student must have a minimum index of 1.75 on the total of 24 credits attempted. If this index is not achieved, the student will be dismissed for academic reasons.

Example B: A student entering York as a sophomore, transferring 24 credits from another college, who registers for 12 credits in the first semester at York, must achieve an index of 2.00 for the 12 credits because the total number of college credits attempted at York and the previous college(s) total more than 24. If this student achieves less than a 2.00 index, the student will be placed on probation for the following semester. Generally, students on academic probation will not be dismissed, but automatically continued on probation as long as they achieve an index of 2.01 or better each semester until they have reached the required minimum G.P.A. During this probationary period students who make satisfactory academic progress will continue to maintain their academic standing with the College and their concurrent eligibility for financial aid. Students who fail to achieve the minimum 2.01 index (or any other index required by the academic review process) for any semester while on probation, will be dismissed for academic reasons.

Students are notified in writing by the chairperson of the Committee on Academic Standards when they are placed on probation. A student on probation may enroll for a maximum of 12 credits or the equivalent. In addition, the student whose program includes developmental and/or compensatory courses may register for a maximum of 19 hours of course work. Although you may register for as many as 12 credits/19 hours, you are advised to take fewer.

Students are notified in writing by the chairperson of The Committee on Academic Standards that they have been dismissed for academic reasons after failing to meet the minimum retention standard while on probation. A student may not be dismissed without being placed on probation for a minimum of one semester.

The retention standards are applied to all students, degree (matriculated) and non-degree (non-matriculated) students.

A student who has been dismissed is separated from the University for at least one semester and may not enroll during that period for credit-bearing courses in any unit of the University. Readmission to York College is not automatic. The student must submit a petition to the Committee on Academic Standards indicating the basis for consideration for readmission. Written notification of approval or denial will be sent to the student. If the petition is approved, the student is permitted to register according to specific academic standards stipulated by the Committee, where applicable. The college adheres to readmission deadlines. Students are encouraged to contact the Office of the Registrar regarding the deadline for filing application. The student who registers under these circumstances is considered in good academic standing while in attendance.

Honors and Awards

Dean's List

The Dean's List will be promulgated at the end of each Fall and Spring Semester. To be named to the Dean's List, a student must have at least a 3.25 index on a minimum of 12 graded credits in a given semester. Starting September 1989, a Dean's List for part-time students will be promulgated at the end of each Spring semester. To be eligible for the Part-Time Students' Dean's List, one must be a bona fide part-time student and achieve a 3.25 index on 12 graded credits within a given academic year (September-June). A student who registers for a full-time program and withdraws from courses will not be eligible for the Part-Time Students' Dean's List.

The grades of A through F, NC, R and WU will be considered in computing the index. The grades of P, W, WA, and Z are not considered as part of the total credits for eligibility for the semester. Grades of INC or ABS will be considered F grades in the computation for Dean's List. Eligibility will be determined when all grade rosters have been received from the departments. There will be no redetermination and retroactive eligibility based on grade changes.

Graduation Honors

Eligibility for graduation honors will be based only on classroom work completed at York College. Honors will be granted to those who complete a minimum of 56 credits at York with the minimal index of 3.25 for Cum Laude, 3.50 for Magna Cum Laude and 3.75 for Summa Cum Laude.

Certificates and Awards

The following are just a few departmental awards given annually at the College's Honors Program.

African American Association Award: For distinction in student development and leadership.

Sponsored by the York College African-American Association.

Biology Honors Program Certificate

Simon Bolivar Award: For scholarship and service to the Latino Community. Given by the Latino Faculty Caucus.

English Honors Program Certificate

Political Science Special Award: To the outstanding senior majoring

in Political Science who shows the greatest potential for scholarship in the field of Political Science.

Psychology Special Award: To the outstanding senior majoring in Psychology who shows the greatest potential for scholarship in the field of Psychology.

SEEK Award for Outstanding Achievement

Sigma Xi Award: For distinctive aptitude, academic achievement, and maturity. To a graduating senior who majors in mathematics, philosophy, psychology or one of the natural science disciplines. Sponsored by the York College Sigma Xi Club.

Social Work Honors Certificate

Student Development Award: For excellence in college service.

Honor Societies

Delta Mu Delta, National Honor Society in Business Administration

Liberal Arts Honor Society of York College: The purpose of this organization is to recognize students for academic excellence and broad intellectual interests and integrity and to encourage scholarly pursuits. Every spring the Society elects to membership from the graduating class, and in exceptional cases from the junior class, those students who excel in the above respects.

Phi Alpha Theta, International History Honor Society

Psi Chi, National Psychology Honor Society

Sigma Delta Pi, National Spanish Honor Society

Xi Lambda Chapter of Kappa Delta Pi, National Honor Society in Education

Scholars Programs

Computer and Mathematics Scholar Support Coalition (CMSSC):

(Stipend of \$3,125 per year for each participating student)

The Computer and Mathematics Scholar Support Coalition is funded by the National

Science Foundation with the goal of providing a community learning group to encourage retention and graduation for students majoring in mathematics, information systems management, or computer science. The activities organized for the Scholars include an annual open house, monthly lunch meetings of scholars, Mathematics and CS faculty, and partners in high technology fields, guest speakers, personalized counseling, an annual scholars reception and other activities designed to promote exposure to the high technology careers as well as building strong goals among the Scholars. Each Scholar will receive a stipend of \$3,125 per year. Any student meeting the following criteria are encouraged to apply:

- Enrolled as a major in Mathematics, Information Systems Management or Computer Science. (Incoming freshmen through seniors are all allowed to apply.)
- A minimum GPA of 3.0 in the "major" courses and 2.5 G.P.A. overall for on-going or transfer students.
- Demonstrated academic potential for incoming freshmen.
- Status as an American citizen, national, refugee alien, or permanent resident at the time of application.

- Demonstrated financial need by filing for financial aid.

Applications and information are available in Room 2C07, or on-line at:

<http://www.york.cuny.edu/~cmssc>. Questions may be directed to Professor

Michaelangelo Salcedo, 718.262.2098 or Professor Laurel Cooley, 718.262.2545.

Louis Stokes Alliance for Minority Participation in Science, Mathematics, Engineering, and Technology (LSAMP):

(Stipend ranges from \$1000-\$5000 over 2 semesters, \$3500 over the summer)

Funded by a grant from the National Science Foundation in collaboration with the City University of New York. The goal is to increase the number of underrepresented minority students with undergraduate degrees in a Scientific discipline, while fostering scientific inquiry, and interest in study at the graduate level. Since 1992, the Alliance has been uniting the SMET community of the City University of New York in a common purpose: dramatically increase the number of minority students who earn bachelor's degrees in SMET discipline.

Student Benefits:

\$1000-\$5000 over 2 semesters (awarded as a personal check twice a semester)

\$3500 over the summer

Paid travel/hotel for AMP affiliated conferences

Student Requirements:

- Overall GPA of 3.0 or higher with F/T status.
- Major in a Science/Applied Science, Mathematics, Engineering and Technology disciplines.
- Underrepresented minority: American Indian, Black, Filipino, Hawaiian, Latino, and Native-Alaskan.
- US Citizen/Permanent Resident.

Applications and information please contact Amarilis Bueno in the Math Department, Room 2C07b, 718-262-2542 or email ABueno@york.cuny.edu

For further information visit our web Site at <http://nyc-amp.cuny.edu>

Minority Access to Research Careers Program (MARC)

(Tax free stipend of \$8,796 and \$1,774 toward tuition)

The Minority Access to Research Careers program is a federally funded research/training program, sponsored by the Minority Opportunities in Research (MORE) branch of The National Institute of General Medical Sciences, within the National Institutes of Health (NIH). The NIH is part of the Public Health Service (PHS). The mission of MARC is to increase the number of under-represented minorities among the ranks of Ph.D.s and M.D./Ph.D.s involved in research by training students to be accepted and successful in Ph.D. programs. MARC achieves its objectives by

1. funding the participation of undergraduate minority students in research activities by offering special training and honors curricula, such as a summer research experience and a senior honors thesis,
2. sponsoring the research activities and development of faculty at predominantly minority institutions, and

3. upgrading the training environment and research infrastructure at these institutions.

Eligibility: Any full-time student who is a U.S. citizen or permanent resident (NS 151 or

551 alien registration cards) and a member of one of the following groups: Black, Hispanic, Pacific Islander, or Native American. Students of all other ethnic groups are

eligible if there are insufficient numbers of qualified students of the listed groups.

Qualifications: Students usually enter the program in the summer following their

sophomore year when they have about 60 credits, although students can enter earlier as

non-funded pre-MARC students. Students need an overall GPA of 3.0 or higher, and

should plan to enter graduate school to earn the Ph.D. or MD/Ph.D. for a research career

in academia, in industry or in academic medicine. Students who desire the MD are not

eligible.

Compensation:

1. Tax free stipend of \$8,796 for about 850 hours of work per annum. This usually involves full-time work (35 hrs/wk) during the summer, and 15 hrs/wk during the academic year. \$1,774 toward tuition (usually tuition can be paid in full).
2. Travel allowance of \$800 per year to attend scientific meetings.
3. Senior Summer Research Experience at another university (Competitive applications required; usually involves a stipend of \$2,000 plus additional money for room, board and travel.)

Application forms are available from the York MARC Office, Rm. 3A02, Academic

Core Building, Tuesday to Thursday (718-262-2634). Students will need to:

- Complete the application
- Write a brief essay stating why they wish to join MARC
- Obtain 2 letters of recommendation
- Submit the most recent transcript

Most students are selected in May for full-time summer research and training which begins in June, but a student may enter the program at any time.

York College Honors Program

The York College Honors Program provides the opportunity to learn and grow within a small community of students who share a love of learning and strong academic skills. The program will prepare students for graduate study and exciting professional careers through research experience and individualized attention from faculty members. The interaction of students and faculty within the program will enrich the college experience and help guide students throughout their college career.

Benefits of Program Membership

Honors students are eligible for a number of scholarships at York College, as well as generous fellowship programs funded by federal grants. Honors courses will be designated with an 'H' on the student's transcript. Successful completion of the Honors Program will be noted on the student's diploma and final transcript, and Honors students will be recognized at a special awards ceremony and at commencement. Students in the program will receive other special benefits on campus, such as early registration so that they can choose courses that best fit their schedules. Most important, Honors students will receive the individualized attention of their faculty mentor, as well as the support of the other students within the Honors program community.

The Honors Program

Each Honors student will work closely with a faculty mentor in his or her area of interest. This mentor will guide the student through college, developing an individualized academic program and helping the student prepare for graduate study and professional success. Honors students will participate in small interdisciplinary honors seminars on topics of timely interest and attend special programs with visiting scholars. Students will develop independent honors projects within their major subject. In the senior year, they will compete an independent study project and honors thesis under the guidance of their faculty mentor. Honors students will attend cultural and performing arts programs as a group each semester to make the most of our rich and culturally exciting city.

Criteria for Admission to the Honors Program

Students can apply to the Honors Program as incoming first year students, or prior to the Sophomore and Junior years. Students must spend at least 2 years in the program. Honors students must be attending college full time. To be considered for the program, students must meet the following criteria:

High School Students:

85% average or higher (official transcript required); academic course of study, including science and math courses; complete application with essay; two letters of recommendation.

Current York Students/Transfer Students (12-72 credits on entering the program):

3.25 GPA average or higher (official transcript required); complete application with essay; two letters of recommendation (must include college faculty).

For more information about the Honors Program, please contact Dr. Hywel Morgan, Honors Program Director, York College, The City University of New York, 94-20 Guy R. Brewer Blvd., Room 4D-06, Jamaica, NY 11451, 718-262-2311. hmorgan@york.cuny.edu.

York College McNair Scholars Program:

(Stipend up to \$2,400 per year for each participating student)

The McNair Scholars Program, whose ultimate goal is to effectively prepare its participating students for doctoral study and future careers in research and college teaching, will provide each student with faculty mentoring, research opportunities and scholarly activities, GRE preparation, assistance in securing admission to graduate programs, and other academic and networking activities. Each

McNair Scholar can receive a stipend of up to \$2,400 per year.

Any student meeting the following eligibility criteria is encouraged to apply for the McNair Program:

- enrolled in a degree program;
- maintains a minimum GPA of 3.0;
- completed 28-80 credits
- has a strong interest in graduate study;
- is an American citizen or permanent resident or in other eligible legal status;
- is a low-income and first-generation college student OR, a member of a group under-represented in graduate education, i.e., Blacks, Hispanics, American Indians or Alaskan Natives, as defined by Federal guidelines.

Interested students should contact either Mr. Patrick Gao's office, 262-2423, AC-3E03, or Dr. Lynne Richards' office, 262-2661, AC-3F01. Referrals from faculty, staff and students regarding potential McNair scholars are welcome.

Curriculum

The academic program of York College is planned to aid the personal and professional development of each student. It is based on the liberal arts approach, and is designed to provide the opportunity for each student to pursue his or her particular professional interest.

The curriculum for the Bachelor of Arts and Bachelor of Science degree options includes general education requirements, requirements for a major area of study, and elective courses. If they wish, students may also select a minor area of study. Each student is encouraged to develop an academic plan with the assistance of his/her faculty advisor.

The purpose of the general education requirements is to contribute to the liberal education of the student. These requirements are flexible and divide into three broad areas: the humanities, the social sciences, and the natural sciences and mathematics. Within a given area, each student chooses courses according to his/her particular interests.

Students may choose a major from a variety of liberal arts and professional programs. These are given in the HEGIS listing below. Pre-professional course sequences are available for students who are interested in applying to schools of medicine, dentistry, law, and engineering.

Students may choose their electives from a wide range of courses which will support their major, broaden their interests, or advance their educational and career goals.

In addition to the regular classroom approach, the curriculum at York involves more flexible approaches for learning, including field work experiences, independent study options, auto-tutorial programs, and on-line courses. Cooperative Education work experiences are required in some majors and optional in others.

Graduation Requirements

There are three graduating periods each year, September, February and June, but only one commencement exercise, in June. To be graduated, students must complete requirements on the following areas, each of which is explained below:

- General Education Requirement
- Major
- Writing Intensive Courses
- CUNY Proficiency Examination
- Credits
- Grade Point Average
- Liberal Arts

Students may complete these requirements either by successfully completing the approved courses or by otherwise demonstrating competence in the area of knowledge and skill to which course work is directed. (See the section on Special Examinations.) Transfer students may be waived from some of the General Education Requirements, based on previous college work.

Courses used to fulfill the major discipline requirements may not be used to satisfy the general education requirements.

Students are required to follow the General Education Requirements stipulated in the College bulletin which is in effect at the time they are matriculated at York College. If there is a change in any of these requirements after students are matriculated, they are not obliged to adhere to the new requirement, except in unusual circumstances involving CUNY-wide regulations or changes in state certified programs or if the student has not been in attendance for more than 3 semesters. In the case of a change in the major requirements after students are admitted, they have the option to choose to graduate either under the requirement in effect when they entered the College, or under the new requirement. Students who are separated from the College for more than three consecutive semesters must follow the bulletin which is in effect the semester they are readmitted.

It should be noted that students must complete either the old program or the new program in its entirety, and may not combine some of the requirements from each program. In addition, when students change from an old program requirement to a new requirement, it is necessary that they officially notify the Office of the Registrar.

Applying for Graduation

Students are required to file a diploma card within the first eight weeks of the semester in which they plan to complete their requirements for graduation. This card is available at registration or in the Office of the Registrar.

Students who will not be in attendance at York when completing their final requirements must first receive permission from the Registrar to graduate in absentia and file a diploma card in the Office of the Registrar.

Waiver of Degree Requirements

Under extenuating circumstances a student may petition the department chairperson for a waiver of certain requirements for the major. The request must be based on circumstances beyond the student's

control and can only be granted if such a waiver does not seriously impair the comprehensive nature of the major. In some programs leading to certification or licensure, waivers may not be possible. In no case is the waiver to be granted merely to accelerate graduation. Requests for waivers of college-wide requirements must be made to the Committee on Academic Standards within the context of the above stipulation and final approval of the Office of Academic Affairs.

Writing Intensive Course Requirement

Writing Intensive courses are required of all students who entered the college in Fall 2001 or later. A Writing Intensive (WI) course is a subject-area course that incorporates guided formal writing assignments. These courses are listed in the Schedule of Classes; the list varies from semester to semester. Writing 301, 302 and 303 are not WI courses.

The Writing Intensive Requirement consists of three WI courses:

- *two in the lower division of the curriculum (at the 100- or 200-level), which may be General Education, Minor, Elective, or Major courses, and

- *one in the upper division (at the 300-level or above), which must be a course required by the student's Major.

Students who transfer to the College with waiver of the General Education requirements are still required to satisfy the upper-division WI requirement, except for second-degree students, who are exempt.

CUNY Proficiency Examination (CPE)

Effective Fall 2003, all students who have been admitted to a degree program are required to pass the University-wide College Proficiency Examination(CPE) to graduate from a senior college. Students are required to take the exam during the semester in which they attempt their 45th or higher credit. Transfer students who enter with 45 or more credits must take the exam during their first semester at the college.

Exemptions may be granted:

- a. to students holding a bachelor's or other advanced degree from an accredited institution;
- b. for accommodations to comply with Section 504 of the Rehabilitation Act and the Americans with Disabilities Act.

The University will administer the Proficiency Examination at the colleges several times each year. For information concerning the examination, students should consult the Testing Center, Room 1G05, or the Academic Advisement Center, Room 2C01. For information about preparing for the exam, students should visit the Writing Center, Room 1C18.

Credits

The minimum number of credits for a Bachelor's degree is 120. Some students may have to take additional credits to complete all graduation requirements. Credits may be gained by

- a. Achieving a passing grade in a credit-bearing York College course or by any of the following means, all of which are counted as transfer credits:
- b. Transferring credits from another post-high school institution
- c. Achieving a sufficient grade on a special examination (see the section on Special Examinations below)
- d. Credits for Life Experience (see the Community Service Program in the section on Special Programs)
- e. Credits for Military Service (see the section on Special Examinations below)

Students who receive credit based upon examinations, life experience, and military credit must complete a minimum of 90 credits in college courses.

To qualify for a degree from York College, students must successfully complete a minimum of 40 credits at York. At least half of the credits in the major program must be taken at York.

Requests for credit for a prerequisite course must be made before a student registers for an advanced course. No credit will be granted for a prerequisite course once the student has registered for the advanced course.

Special Examinations

Credit will be granted for work based on the following examinations:

- a. CLEP (College Level Examination Program)
- b. CPEP (College Proficiency Examination Program)
- c. USAFI (United States Armed Forces Institute) Madison
- d. In-house exemption examinations

Credit will be given for the above examinations which test knowledge in specific subjects rather than general knowledge. Upon a student's request and approval of the departments involved, a student may be granted credits or be exempt from courses by presenting evidence of C or better performance on any of the above college-level examinations. A maximum of 16 credits may be earned in this manner, except nursing majors, who may earn up to 20 credits.

Grade Point Averages

Students are required to have a "C" average for graduation. This includes:

- a. a "C" average in all York College courses and,
- b. an overall "C" average for the courses in their major disciplines, and
- c. for a transfer student, an overall "C" average in all college work.

For more explanation, refer to the section on Academic Deficits.

A student may not graduate with an unresolved grade (ABS./INC.), nor will any grade change be applied to the record once a student has graduated.

Liberal Arts Requirement

The New York State Education Department requires 60 liberal arts credits in a Bachelor of Science program and 90 liberal arts credits in a Bachelor of Arts program. In the list of course descriptions, courses which are liberal arts for all students identified with a (√) mark. Courses which are liberal arts for all but Accounting majors are identified with a (*).

The following are NOT liberal arts courses:

Academic Computing, Accounting, Business, Communications Technology, Co-op, Education, Gerontology (except Gerontology 101 & 102), 200, 317 & 324, Health Professions (except HPEH 110, 140, HPGC 101, 102 and 201), Nursing, Physical Education 100 & 200 level courses, 311, 312 & 313, Social Work, Student Development 102-105 & 301, All Field Work, Internships & Practicum Courses.

In addition to the above, Accounting majors MAY NOT use the following courses as liberal arts: Academic Development, Fine Arts courses listed in groups I, II & III of the Studio Art Major, Health Education, Music 131-148, 231-248, 331-339, and 431-439, Student Development, or Theater Arts 112-115 and 215-219.

General Education Requirement

Every student who is a candidate for the degree of Bachelor of Arts or Bachelor of Science must satisfy the General Education Requirement(GER), except as listed below. No General Education course may be used to fulfill major requirements.

Students with an A.A., A.S. or A.A.S. degree from a CUNY or SUNY community college, with the exception of students in the Nursing Program, will have fulfilled the General Education Requirements except for Writing 301, 302 or 303. Students may still have to take some courses included in the GER if they are required by their major, or they are prerequisites for other courses.

Students who do not hold a two-year degree from a CUNY or SUNY community college, but have at least 45 credits in liberal arts and sciences from a regionally accredited college may apply for a full or partial waiver from the General Education Requirements, based on the evaluation of the credits transferred.

Except for second degree students, all students admitted Fall 1996 or later must take Writing 301, 302, or 303.

GENERAL EDUCATION PROGRAM REQUIREMENTS:	CREDITS
I. General Requirements:	18.0-26.0
English 125	4.0
Writing 301 or 302 or 303*	3.0
Cultural Diversity 101	3.0
Cultural Diversity 201 or 202 or 203 or 210	3.0
Physical Education 150	2.0
Speech Communication 101	3.0
Foreign Language <i>(placement by Foreign Language Department)</i>	0-8.0

I. Humanities:	9.0
A) Literature – English 200	
B) History and Philosophy - one course from the following: History 100, 108, 113, 201, 202, 204, 257, 275, 276 Philosophy 102, 103, 121, 122 or 151	
C) Fine and Performing Arts - one course from the following: Fine Arts 104, 150, 152, 155, 264, 381 Music 101, 110, 225, 250, 253 Speech Communication 160 Theater Arts 110, 114, 211 or 215-219	

III. Behavioral Science: **6.0**

Six credits from 2 disciplines outside the major chosen from the following courses:

1. African-American Studies 101 or 172
2. Anthropology 101 or 103
3. Economics 101 or 102
4. Political Science 101 or 102 or 103
5. Psychology 102 or 110
6. Sociology 101

IV. Mathematics - one course from: **4.0**

Mathematics 111, 115, 121, 150, 184 or 190

V. Natural Science: **5.0-6.0**

A) Non-Science and Non-Mathematics Majors - six credits, in any 2 disciplines, chosen from the following:

1. Astronomy 101, 102, 140
2. Biology 110, 120
3. Chemistry 120, 121
4. Geology 110, 115, 120, 121, 140
5. HPEH 110

B) Mathematics Majors - five credits of any science courses that are acceptable by the respective science disciplines to fulfill their major requirements

C) Science Majors - five credits as stipulated by major discipline.

Total: **42-51**
Remainder of credits in Major Requirements and Free Electives**

Total Credits: **Baccalaureate Degree 120 Credits**

All courses included among the General Education Requirements are designated and taught as Writing Enhanced. Students are given an opportunity to engage in writing activities and complete assignments designed to develop their competence in reading, critical thinking, and writing.

* Junior Level Writing Courses; Computer Competency required. Required of all students entering the college in Fall 1996 and thereafter, including transfer students, except for second degree students, who are exempt.

** Except for certain stipulated majors usually certified by outside agencies.

Majors

Each student must complete the requirements for a major. The list below contains the majors which may be selected at York College. Details of the requirements for each major appear in the next section of the bulletin.

Programs of Study - Index with HEGIS* Codes

HEGIS NO. PROGRAM

0502	Accounting (B.S.)
2211	African-American Studies (B.A.)
2211	African-American Studies/Education N-6 (B.A.)
2202	Anthropology (B.A.)
2202	Anthropology/Education N-6 (B.A.)
1003	Art History (B.A.)
1002	Art-Studio (B.A.)
0401	Biology (B.A. or B.S.)
0401.01	Biology/Education 7-12 (B.S.)
0499	Biotechnology (B.S.)
0506	Business Administration/Co-op (B.S.)
1905	Chemistry (B.A. or B.S.)
1905.01	Chemistry/Education 7-12 (B.S.)
0605	Communications Technology (B.S.)
0837	Community Health Education (B.S.)
0701	Computer Science (B.S.)
2204	Economics (B.A.)
2204	Economics/Education N-6 (B.A.)
1501	English (B.A.)
1501	English/Education N-6 (B.A.)
1299	Environmental Health Science (B.S.)
1102	French (B.A.)
1102	French/Education N-6 (B.A.)
1914	Geology (B.S.)
1917.01	Geology (Earth Science)/Education 7-12 (B.S.)
2299.10	Gerontological Studies & Services (B.S.)
0837	Health Education K-12 (B.S.)

0837	Health Promotion Management (B.S.)
2205	History (B.A.)
2205	History/Education N-6 (B.A.)
0507	Information Systems Management/ Computer Studies/Co-op (B.S.)
4901	Liberal Studies (B.A.)
4901	Liberal Studies/Education N-6 (B.A.)
0509	Marketing/Co-op (B.S.)
1701	Mathematics (B.A. or B.S.)
1701	Mathematics/Education N-6 (B.A.)
1223	Medical Technology (B.S.)
0835	Movement Science (B.S.)
1005	Music (B.A.)
1005	Music/Education N-6 (B.A.)
1203	Nursing (B.S.)
1208	Occupational Therapy (B.S.)
1509	Philosophy (B.A.)
1509	Philosophy/Education N-6 (B.A.)
0835	Physical Education K-12 (B.S.)
1902	Physics (B.S.)
2207	Political Science (B.A.)
2207	Political Science/Education N-6 (B.A.)
2001	Psychology (B.A.)
2001	Psychology/Education N-6 (B.A.)
2104	Social Work (B.S.)
2208	Sociology (B.A.)
2208	Sociology/Education N-6 (B.A.)
1105	Spanish (B.A.)
1105	Spanish/Education N-6 (B.A.)
1105.01	Spanish/Bilingual Education N-6 (B.A.)
1506	Speech/Communication and Theatre Arts (B.A.)
1506	Speech/Communication and Theatre Arts / Education N-6 (B.A.)

* HEGIS: Higher Education General Information Survey



Majors and Programs

Academic Computing

Director: Che-Tsao Huang
Department Office: Academic Core, Room 4G01, Telephone 262-2750.

The Academic Computing program offers courses in computer literacy. The computer literacy courses are designed to serve the needs of all students at York College. Their objectives are to enable the students to understand the computer system and associated operating systems, to use word processing and graphics software to develop essays as well as research papers, and to develop an understanding of the basic terminology of computer technology, network, and operations, to navigate the World Wide Web, and to use multimedia presentations to enhance their academic endeavors.

The Academic Computing program is also designed to enable students to learn to use spreadsheet software for modeling, budgeting, planning, and other “what if” projections, to use both spreadsheet and database software, to use both presentation and web design software and to understand the impact of the Internet on business, education, human services, public administration and life as a citizen.

Course Offerings		Credits
Academic Computing 101	Introduction to Microcomputers I	1
Academic Computing 102	Introduction to Microcomputers II	1

Academic Computing 201	Computer Applications	3
Academic Computing 210	Microcomputer Applications in Education	1
Academic Computing 230	Teaching with Multimedia Technology	2
Academic Computing 250	Teaching With Technology	1

Academic Development

For information, contact the Counseling Office, Room 1G02, Telephone 262-2272.

Accounting (B.S.)

HEGIS CODE 0502

Chair: Boadnarine Bharosay, Department of Accounting and Business
Professor: Bharosay
Associate Professors: Bartman, Gellis, Ruiz
Assistant Professors: Kranacher, Marino, Stern
Coordinator: Richard J. Bartman, Academic Core, Room 2B06
Department Office: Academic Core, Room 2B06, Telephone 262-2500

The Accounting faculty aims to provide students with sufficient theoretical and practical tools in the areas of accounting, business and economics to prepare them for the Uniform Certified Public Accountancy Examination, careers in public, private or government accounting, or to allow them to continue with graduate studies or law school.

The accounting courses study the concepts and methods needed to create financial records and statements for external and internal use of various entities: business firms, government bodies, non-profit organizations, etc.

The B.S. degree in Accounting at York College includes all the educational requirements to sit for the Uniform Certified Public Accountancy Examination in New York State. Students who wish to sit for the examination in another state should consult the appropriate state board of accountancy.

Major Discipline Requirements (60 Credits)*		Credits
Accounting 101	Accounting I	4
Accounting 102	Accounting II	4
Accounting 201	Intermediate Accounting I	3
Accounting 202	Intermediate Accounting II	3
Accounting 301	Advanced Financial Accounting	4
Accounting 335	Auditing I	3
Accounting 345	Cost Accounting I	3
Accounting 350	Income Taxation	3
Business 201	Computer Applications in Business	3
Business 283	Business Law I	3
Business 284	Business Law II	3
Business 321	Business Finance	3
Economics 102	Elementary Economic Analysis II	3
Economics 220	Introduction to Economic Statistics	3
Economics 311	Money and Banking	3
Accounting electives		6
Plus elective credits from Accounting, Business, Economics or Marketing*		6

*Business 327 and Business 425 may not be used in satisfying these elective requirements.

Notes:

1. *Physical Education 150 is temporarily waived from the General Education Requirements for Accounting Majors.*
2. *The requirement that half of the credits in the major program must be taken at York is superseded by the requirement that 15 credits in the Accounting discipline must be taken at York.*
3. *All Accounting majors must take Economics 101 and Mathematics 115 in partial fulfillment of General Education Requirements and Liberal Arts Requirements. Transfer students majoring in accounting must present or complete these courses, even though they have an Associate degree where all General Education require-*

ments have been waived.

4. *Students who present a course in Income Taxation may substitute Accounting 351 (Advanced Income Taxation) for Income Taxation (Accounting 350).*
5. *All Accounting majors must complete a minimum of 60 Liberal Arts credits inclusive of the Core Requirements.*

African-American Studies (B.A.)

HEGIS CODE 2211

Chair: Vicki Ashton, Department of Social Sciences

Associate Professor: Anderson

Assistant Professor: Araya

Coordinator: Mesfin Araya, Academic Core, Room 3B04a

Department Office: Academic Core, Room 3A11, Telephone 262-2605

The African-American Studies Program covers the general area of the Black Experience in Africa, America and the West Indies from a historical, socio-political, cultural, and economic perspective. The Program has the following objectives:

1. To give students a clearer insight into the wealth of data surrounding the Black Experience which has, heretofore, been subjected to misinterpretation, misunderstanding and, in many instances, total neglect.
2. To prepare students for careers in education, government, multinational and private business, and international organizations.
3. To prepare students for graduate work in African-American, African, Caribbean and other related fields of study with the hope of providing those areas with a much needed cadre of new scholars.
4. To enhance the cultural life of the community in association with SEEK, the African-American Studies Club, and other student and community organizations through joint cultural activities, adult education, lectures, and tutorials.
5. To reinforce curricula in other programs of study.

Major Requirements are 30 credits**

A. Required Foundation Courses = 18 credits:

African-American Studies 172, 242, 265, 325, 401
Anthropology 241

B. Twelve Credits From This Section:

At least six (6) credits at 300 level; but not more than six (6) credits in African-American Studies courses.

African-American Studies 203, 220, 230, 243, 245, 261, 285, 322, 323, 331, 341, 342, 343, 354, 360

English 392
Fine Arts 296, 398
History 272, 274, 275, 276, 313
Music 250, 253
Political Science 256
Sociology 220, 366

Minor Design for African-American Studies**

The minor in African-American Studies consists of 12 credits from AAS required foundation courses, excluding AAS 265 and AAS 401; and an additional 3 credits at 300-level courses from Section B of AAS Major.

Total requirements = Fifteen (15) Credits.**A. The following twelve (12) credits must be completed:**

African-American Studies: 172, 242, 325
Anthropology 241

B. At least three (3) credits at 300 level courses from Section B of African-American Studies Major.

** N.B. Majors should begin work on the core and distribution requirements immediately and complete them as soon as possible. They are also advised to consult the Coordinator in order to be able to make a coherent case for the course of electives they propose. The African-American Studies Program strongly recommends that both majors and minors take Swahili 101 and 102; both courses may be used to satisfy the foreign language requirement. For those who may have fulfilled the requirement prior to coming to York College, the AAS Program recommends that Swahili 101, 102 be part of electives chosen. No core/distribution course counts toward fulfilling major/minor requirements.

Anthropology (B.A.)**HEGIS CODE 2202**

Chair: Vicki Ashton, Department of Social Sciences

Professors: Divale, Weil

Assistant Professor: Mooney

Lecturer: Ajakey, Jones, Seda

Coordinator: William Divale, Academic Core, Room 3A02-03

Anthropology is a comprehensive science of humankind concerned with a comparative and holistic approach to the study of human society and culture. The major in anthropology provides an excellent background for students planning careers as teachers and administrators, and for those whose future career will involve working and communicating in a multi-cultural setting.

The anthropology program has a focus in applied anthropology. Students learn quantitative research skills, which make them employable in a wide variety of settings, as well as preparing them for graduate studies.

Major Discipline Requirements (30 Credits)	Credits
Anthropology 101 - Introduction to Cultural Anthropology	3
Anthropology 220 – Social Research I	3
Anthropology 321 – Social Research Methods II	3
Anthropology 310 – Techniques of Cross-Cultural Research	3
Anthropology 490 – Independent Study	3

Five elective courses in Anthropology, Sociology, or African American Studies (At least two courses must be in Anthropology, and at least two of the five courses must be numbered 300 or higher) 15
Students who are also concentrating in Teacher Education should take Sociology 202- Evolution of Major ideas and Issues in Education as one of the five elective courses.

Minor Program in Anthropology

The Anthropology minor is designed to meet the needs of students who are majoring in other areas but want additional comparative and holistic knowledge about human beings and human society. It is also for students who will be working in a multicultural world and need to understand the role of culture in forming human differences in thought, behavior, and custom.

Minor Program Requirements (15 Credits) Credits

Anthropology 101 – Introduction to Cultural Anthropology 3
Four additional courses in Anthropology 12

Astronomy

Chair: Martin S. Spergel, Department of Natural Sciences

Professors: Borenstein, Jain, Levin, Spergel

Assistant Professor: Paglione

Senior College Laboratory Technician: Gomez

Astronomy is the comprehensive study of the objects of the sky. It should be noted that Astronomy is offered only as a minor at York College. Offerings include studies of the origin, physical nature and motion of the Sun, Moon, stars, galaxies, and planets and the structure, possible history and future of the Universe. Astronomy courses exist at York College at both the non-science and science major levels and are open to all students with appropriate prerequisites.

Several astronomy courses can be used to fulfill Area Requirements in Natural Science for non-science majors. Such courses include: Astronomy 101, Astronomy 102, and Astronomy 140. Science majors may also select these non-science major courses to fulfill general electives. Advanced level courses that make use of the York College Observatory, such as Astronomy 301, are also available.

Minor Design for Astronomy (Minimum: 15 Credits)

Astronomy 301: Observational Astronomy	4
Astronomy* Courses at the 200-level or above	11
<i>*Suitable courses from other disciplines may be substituted upon approval of the department.</i>	
Astronomy 201: The Solar System	4
Astronomy 202: Stars & the Milky Way	4
Astronomy 203: Introduction to Cosmology	4
Astronomy 301: Observational Astronomy	4
Astronomy 491: Astrophysics I: Planetary Astronomy	3
Astronomy 492: Astrophysics II: Stellar Astronomy..	3
Astronomy 493: Astrophysics III: Extragalactic Astronomy	3

Astronomy 495: Independent Study	3
Astronomy 496: Independent Study	.3
Geology 282: Weather and Climate	3
Geology 305: Earth History	.3
Geology 340: Remote Sensing..	2
Geology 442: Geophysics	3
Physics 282: Weather and Climate	3
Physics 491: Astrophysics I: Planetary Astronomy.	3
Physics 492: Astrophysics II: Stellar Astronomy	3
Physics 493: Astrophysics III: Extragalactic Astronomy	3

*May be substituted with permission of discipline by Geology 282 or Physics 282.

Biology (B.A. or B.S.)

HEGIS CODE 0401

Chair: Martin S. Spergel, Department of Natural Sciences

Professors: Lewis, Schlein

Associate Professors: Adams, Levinger

Assistant Professors: MacNeil, McNeil

Senior College Laboratory Technician: Ponnampalam

College Laboratory Technician: Blake

Coordinator: Cheryl Adams, Academic Core, Room 4E03D

Department Office: Academic Core, Room 3F01, Telephone 262-2650

The Biology Program is designed to provide academic experiences in the life sciences for students with varied career plans and special interests. The courses offered cover a broad range of subjects from General Biology, Biostatistics and Genetics, which all majors must take, to Whole Organismic Biology, Molecular and Cell Biology, and Environmental Biology.

The program of study serves as a base for a pre-medicine, pre-dentistry, pre-nursing or related pre-professional preparation, and equally well as preparation for the pursuit of graduate degrees (M.S. and Ph.D.) in all areas of Biology. The Independent Research Program, which is strongly emphasized, allows students to obtain a degree with honors. The program also serves as a 2 year preparation for pre-pharmacy, from which students can transfer into schools offering a Bachelor's degree.

The Biology/Secondary Education major program has in the past had great success in placing high school science teachers into the school system in Queens. Biology majors can obtain positions as Laboratory Technicians in Research labs, as well as other positions in the pharmaceutical and biotechnology industries.

The program also provides non-science majors with an understanding of biological concepts and transmits some conception of the importance of biological discoveries to the solution of social and environmental problems.

Major Discipline Requirements (56.5 - 60 Credits) Credits

I. Required foundation courses:

Biology 201	Biological Principles I	4
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Biology 202	Biological Principles II	4
Biology 307	Biostatistics	3
Biology 343	Laboratory Exercises in Genetics	2
Biology 344	Molecular and General Genetics	4
Chemistry 102*	Chemical Principles II	5
Chemistry 231	Organic Chemistry I	3
Chemistry 232	Techniques in Organic Chemistry I	2
Chemistry 233	Organic Chemistry II	3
Physics 151*	University Physics I	5
Physics 152*	University Physics II	5

II. Organismic and Environmental Biology

9 credits chosen from the following:

Biology 231	Biology of Plants	4.5
Biology 308	Invertebrate Biology	4.5
Biology 309	Biology of the Chordates	4.5
Biology 325	Histology	4.5
Biology 334	Comparative Physiology	4.5
Biology 403	Ecology	4.5

III. Cell and Molecular Biology

7.5 - 10 credits chosen from the following:

Biology 412	Biochemistry	3
Biology 415	Biochemistry and Molecular Biology	2
Biology 445	Cell and Molecular Biology	4.5
Biology 452	Developmental Biology	4.5
Biology 465	Microbiology	4.5
Biology 466	Immunology	4.5
Biology 480	Theory and Experimentation in Biotechnology	5

* *Majors in the Biology Program must take Mathematics 121 and Chemistry 101, which fulfill the General Education Requirements in Math and Natural Sciences, respectively*

* *Physics 101 may be substituted for Physics 151, and Physics 102 may be substituted for Physics 152.*

† *Students interested in graduate studies in Biology or professional Biomedical careers are strongly advised to take Chemistry 234 and Mathematics 122.*

B.S. with Honors in Biology

Eligibility: Biology 202 and one 300 level Biology course; a 3.0 average in all Biology courses.

Approval by the Honors Committee of the Biology Discipline.

Requirements for Graduation with Honors:

1. Successful completion of the Biology Major Discipline Requirements with a 3.0 average in all Biology courses.
2. Successful completion of 6 credits of Biology 490-493, which will include independent research under the guidance of faculty mem-

bers and the presentation and approval of a thesis by the Honors Committee of the Biology Discipline.

3. Certification by the Honors Committee of the Biology Discipline.

Design for Biology Majors Planning to Apply for New York State Teaching Certification in Biology 7-12 (B.S.)

Students planning to seek New York State teaching certification in a natural science should file an application form in the Teacher Education Program during their sophomore year. Once accepted, it is the student's responsibility to seek advisement from the Science Education Office.

Students intending to teach Biology at the secondary school level must successfully complete the requirements of a major in this discipline. Students selecting or considering this specialization are directed to meet with the Discipline Coordinator for advisement.

Education Course Requirements

I. Foundation Courses (10-13 credits)

Education 280	Childhood and Adolescent Development for Teachers	3
Education 281	Fieldwork in Educational Environments	1
Philosophy 202	Evolution of Major Ideas and Issues in Education	3
or		
Sociology 202	Evolution of Major Ideas and Issues in Education	3
Education 283	Educational Psychology: Effective Teaching and Learning	3
Academic Computing 101	Introduction to Microcomputers	0-1
	210 Microcomputer Applications in Education	0-1
	250 Advanced Microcomputer Applications in Education	0-1

II. Methods Courses (6 credits)

Education 340	Literacy Instruction Inside Middle and Secondary Schools	3
Education 375	Teaching Biology in Secondary Schools	3

III. Student Teaching in a Junior/Senior High School (8 credits)

Education 442/443	Supervised Student Teaching in Secondary Biology	8
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Due to changing requirements for New York State Teacher Certification and anticipated changes in program and course requirements, it is important that students maintain continuous contact with the Department of Teacher Education and their education advisor, located in Room 1D12, (718) 262-2450.

Minor Program in Biology- 13.5 to 15.5 credits

Required Courses (6 Credits)	
Biology 343 – Laboratory Exercise in Genetics	2
Biology 344 – Molecular & General Genetics	

Organismic and Environmental Biology (One course from the following)

Biology 231 – Biology of Plants	4.5
Biology 308 – Invertebrate Biology	4.5
Biology 309 – Biology of the Chordates	4.5
Biology 325 -- Histology	4.5
Biology 334 – Comparative Physiology.	4.5
Biology 403 -- Ecology	4.5

Cell and Molecular Biology

3 - 5 Credits

(One course from the following)	
Biology 412 – Biochemistry	3
Biology 415 – Biochemistry and Molecular Biology	2
Biology 445 – Cell and Molecular Biology	4.5
Biology 452 – Developmental Biology	4.5
Biology 465 – Microbiology	4.5
Biology 466 – Immunology	4.5
Biology 480 – Theory and Experimentation in Biotechnology	5

Biotechnology (B.S.)

HEGIS CODE 0499

Coordinator: Louis F. Levinger

For more information, please consult the Department of Natural Sciences, Academic Core, Room 4E03A.

The Biotechnology Program is an interdisciplinary major designed to provide academic, laboratory and research experiences to students with career interests in the biomedical sciences. The program serves as preparation for the pursuit of graduate degrees in biotechnology, molecular genetics, molecular biology, cellular biology, biochemistry and other related fields. It provides a strong academic program for students interested in further studies leading to careers in the medical professions. Graduates with the bachelors degree may also seek jobs on the technician level in areas such as pharmaceutical, hospital and academic research laboratories.

The Biotechnology major incorporates general courses in Biology, Chemistry and Physics, with upper level instruction in Biochemistry, Genetics and Biotechnology. The course of study emphasizes the structure, function and relationships of DNA, RNA and proteins in the regulation of gene expression. Methods used in teaching and research laboratories incorporate instruction and training on modern equipment employed in Biotechnology for processes such as gene cloning, DNA sequencing and RNA processing, with application to the

improved analysis, diagnosis and treatment of inherited and acquired human diseases.

Students interested in graduate studies are strongly advised to take Biology 415, Biology 445, Chemistry 234, 321, 322 and Mathematics 122 and 221. Biotechnology majors are strongly encouraged to participate in a research activity (e.g. independent study/ research or co-op).

Major Discipline Requirements (58-60 Credits)*

I. Required Foundation Courses (31 Credits)		
Biology 201	Biological Principles I	4
Biology 202	Biological Principles II	4
Chemistry 102*	Chemical Principles II	5
Chemistry 231	Organic Chemistry I	3
Chemistry 232	Techniques in Organic Chemistry I	2
Chemistry 233	Organic Chemistry II	3
Physics 151	University Physics	5
Physics 152	University Physics	5
II. Biotechnology Requirements (20 Credits)		
Biotechnology 203	Introduction to Biotechnology	2
Biotechnology 241	Instrumental Analysis in Biotechnology	3
Biology 343	Laboratory Exercises in Genetics	2
Biology 344	Molecular & General Genetics	4
Biology 412	Biochemistry or Chemistry 412	3
Biotechnology 480	Theory & Experimentation in Biotechnology	5
Biotechnology 485	Introduction to Industrial Biotechnology	1
III. Biotechnology Options (Choose from A or B)		
A. Cell and Molecular Biotechnology (8.5 to 9 Credits)		
Biology 415	Experimental Biochemistry & Molecular Biology	2
Biology 445	Cell and Molecular Biology	4.5
Biology 465	Microbiology	4.5
Biology 466	Immunology	4.5
Chemistry 234	Techniques of Organic Chemistry II	2
Chemistry 321	Physical Chemistry I	3
B. Bioinformatics and Computational Biotechnology (7 to 9 credits)		
Biology 307	Biostatistics	3
Biotechnology 350	Computational Biology & Molecular Design	3
Biotechnology 352	Bioinformatics	3
Computer Studies 172	Introduction to Computing	4

* Biotechnology majors must take Chemistry 101 and Mathematics 121 (or Mathematics 184) to fulfill their General Education Requirements. Physics 101 may be substituted for Physics 151 (by advisement).

Minor Program in Biotechnology

Required Courses (14 Credits)

Biology 343 – Laboratory Exercise in Genetics	2
Biology 344 – Molecular & General Genetics	4
Biology 412 – Biochemistry	3
Biology 480 – Theory and Experimentation in Biotechnology	5

Business

Chair: Boadnarine Bharosay, Department of Accounting and Business
Associate Professors: Edwin, Ou, Perry
Assistant Professor: Apfelroth
Lecturer: Brown
Coordinator: Sanford Apfelroth, Academic Core, Room 2B06
Department Office: Academic Core, Room 2B06, Telephone 262-2500

Combining practical experience and theoretical knowledge, the business faculty aims to prepare students for careers in business and government or for graduate study.

The courses provide the tools which students enrolled in the Business Programs will use in the world of work before and after graduation. Also, the courses offer students other majors skills they may need in pursuing their careers.

Business Administration (B.S.)

HEGIS CODE 0506

Required Courses (48-51 Credits)*

Credits

I. Co-op Requirements (4 Credits)		
Co-op 101	Orientation	1
Co-op 111	Work Experience and Seminar	3
II. Business Major Requirements (32 Credits)		
Accounting 101	Accounting I	4
Accounting 102	Accounting II	4
Business 283	Business Law I	3
Business 301	Management Theory & Practice	3
Business 311	Personnel Management	3
Business 321	Business Finance	3
Business 348	Production/Operations Management	3
Business 481	Business Policy	3
Economics 102	Elementary Economic Analysis II	3
Economics 220	Introduction to Economic Statistics	3
Marketing 341	Introduction to Marketing	3

III. Three courses (9-10 credits) chosen from within Area

1, 2, or 3, or five courses (15 credits) chosen from Area 4**1. Management and Human Resources**

Business 312 Staff Supervision and Employee Relations	3
Business 315 Health Care Management	3
Business 349 Small Business Management	3
Business 361 Wage and Salary Administration	3
Marketing 351 Sales Management	3
Economics 361 Economics of Trade Unions	3
Psychology 251 Management and Organizational Behavior	3
Psychology 253 Managerial & Personnel Psychology	3
Sociology 238 Industrial Sociology	3

2. Finance and International Business

Accounting 345 Cost Accounting I	3
Business 302 International Business	3
Business 322 Investment and Security Analysis	3
Business 324 International Financial Markets	3
Business 325 Introduction to Mortgage Banking	3
Business 402 Management Information Systems	3
Economics 311 Money and Banking	3
Economics 340 International Economics	3
Economics 420 Advanced Economics Statistics	3
Marketing 346 International Marketing	3

3. Computer Applications in Business

Accounting 210 Computer Applications in Accounting 1	3
Business 201 Computer Applications in Business	3
Business 202 Introduction to Management Information Systems	

or

Business 402 Management Information Systems	3
Business 303 Office Information Systems	3
Computer Studies 497 Advanced Topics (Internet)	3
Mathematics 190 Computers in Modern Society	4

4. Mortgage Finance Specialization**Required courses:**

Business 325 Introduction to Mortgage Banking	3
Business 326 Computer Applications in Mortgage Financing	3
Business 328 Fair Housing and Fair Lending Laws	3
Economics 311 Money and Banking	3
Elective courses Choose one course from the following:	
Business 426 Lending Programs for Affordable Housing	3
Economics 333 Urban Economics	3

All Business Majors must include Mathematics 115 and Economics 101 towards fulfillment of General Education or Degree Requirements. Those who choose the Mortgage Banking Specialization should arrange to fulfill their Co-op 111 Work Experience requirement in the mortgage banking industry. Choice of that specialization also removes the requirement for Business 311 in Section II.

Note: 60 credits in Liberal Arts are required. At least 15 credits in Major Discipline Requirements must be taken at York College.

MINOR IN COMPUTER APPLICATIONS IN BUSINESS**I. Required Courses (15-17 Credits)**

Business 201	Computer Applications in Business	3
Four (4) courses chosen from the following		
Accounting 210	Computer Applications in Accounting	3
Business 202	Introduction to Management Information Systems	3
Business 402	Management Information Systems	3
Business 303	Office Information Systems	3
Computer Studies 497	Advanced Topics (Internet)	3
Mathematics 190	Computers in Modern Society	4

MINOR IN MORTGAGE FINANCE**Required Courses (15 Credits)**

All of the following courses:

Business 325	Introduction to Mortgage Banking	3
Business 326	Computer Applications in Mortgage Finance	3
Business 328	Fair Housing and Fair Lending Laws	3
Economics 311	Money and Banking	3
One (1) course chosen from the following:		
Business 426	Lending Programs for Affordable Housing	3
Economics 333	Urban Economics	3

CERTIFICATE PROGRAM IN MORTGAGE FINANCE

The Certificate Program is designed for returning students who would like to explore careers in the mortgage finance field and for individuals currently working in the mortgage finance field who feel that they need a wider and formal educational background. Students must meet matriculation requirements of the college and must maintain a GPA of 2.0 or better to complete the program.

Students wishing to enroll in a certificate program may do so by following the College's admission procedures as described in the York College Bulletin. Currently enrolled students, York graduates, formerly enrolled students, and transfer students may also qualify for a certificate provided they meet certain requirements.

Required Courses (18 Credits):

Business 301	Management Theory and Practice	3
Business 325	Introduction to Mortgage Banking	3

Business 326	Computer Applications in Mortgage Finance	3
Business 328	Fair Housing and Fair Lending Laws	3
Economics 311	Money and Banking	3
Elective Courses - Choose one course from the following:		
Business 426	Lending Programs for Affordable Housing	3
Economics 333	Urban Economics	3

Chemistry (B.A. or B.S.)

HEGIS CODE 1905

Chair: Martin S. Spergel, Department of Natural Sciences.

Professors: Johnson, Richards, Young

Associate Professor: Tok

Assistant Professors: Desamero, Robie

Senior College Laboratory Technician: Chan

College Laboratory Technician: Hassan

Coordinator: Lynne Richards, Academic Core, Room 3F01

Department Office: Academic Core, Room 3F01, Telephone 262-2650.

The Chemistry Program has three principal objectives:

1. to prepare Chemistry majors for careers in chemistry or related areas such as medicine, dentistry or the health professions;
2. to provide students in other disciplines with the required chemistry courses for their programs; and
3. to provide non-science majors with an opportunity to acquire knowledge of our natural and technological environment as explained through chemical principles.

The Chemistry major provides the student with a sound, foundation in the theoretical and experimental principles of chemistry. The course of study includes the areas of analytical, biochemistry, inorganic, organic and physical chemistry. The major prepares students for advanced study in graduate school, professional programs in medicine and dentistry, and careers in teaching, industry, and government that require a bachelor's degree in chemistry.

Major Discipline Requirements (54-55 Credits)* Credits

I. Required Courses

Chemistry 101	Chemical Principles I	5
Chemistry 102	Chemical Principles II	5
Chemistry 231	Organic Chemistry I	3
Chemistry 232	Techniques of Organic Chemistry I	2
Chemistry 233	Organic Chemistry II	3
Chemistry 234	Techniques of Organic Chemistry II	2
Chemistry 310	Inorganic Chemistry	3
Chemistry 321	Physical Chemistry I	3
Chemistry 322	Physical Chemistry II	3
Chemistry 341	Instrumental Analysis I	3
Chemistry 342	Instrumental Analysis II	3

Chemistry 421	Physical-Inorganic Chemistry	3
Mathematics 122	Analytic Geometry and Calculus II	4
Mathematics 221	Calculus III	4
Physics 151	University Physics I	5
Physics 152	University Physics II	5

II. Three credits chosen from the following:

Chemistry 330	Structure and Mechanism in Biochemistry	3
Chemistry 339	Heterocyclic Chemistry and Drug Chemistry	3
Chemistry 412	Biochemistry	3
Chemistry 450	Advanced Topics in Chemistry	3

* All Chemistry majors must take Mathematics 121 or 184 and Physics 151 to fulfill the General Education Requirements. Physics 101 may be substituted for Physics 151. Mathematics 191 and 192 are strongly recommended.

Students intending to pursue graduate study in Chemistry are advised to take French, German and/or Russian.

A pre-medical or pre-dental chemistry major student should also complete 8 credits of Biology including Biology 201 and 202.

For additional information concerning pre-medical and pre-dental courses, see alphabetical listing.

All Chemistry majors are encouraged to take a program of study in line with the recommendations of the American Chemical Society Committee on Professional Training. This requires a minimum of 6 credits from Category II and 3 credits of Chemistry 490-493.

B.S. with Honors in Chemistry

Eligibility: A 300-level Chemistry course and a 3.0 average in all Chemistry courses. Approval by the Faculty of the Chemistry Discipline.

Requirements for Graduation with Honors:

1. Successful completion of the Chemistry Major Discipline requirements and a 3.0 average in all Chemistry courses.
2. Successful completion of 6 credits of 400-level courses in the Chemistry Discipline consisting of independent research under the supervision of a faculty member and successful presentation of a thesis to the faculty members of the Chemistry Discipline.
3. Certification by the Faculty of the Chemistry Discipline.

Design for Chemistry Majors Planning to Apply for New York State Teaching Certification in Chemistry 7-12 (B.S.)

Students planning to seek New York State teaching certification in a natural science should file an application form in the Teacher Education Department during their sophomore year. Once accepted, it is the student's responsibility to seek advisement from the Science Education Office.

Students intending to teach Chemistry at the secondary school level must successfully complete the requirements of a major in this discipline. Students selecting or considering this specialization are directed to meet with the Discipline Coordinator for advisement.

Major Discipline Requirements (38 or 39 Credits) Credits

I. Required Courses*

Chemistry 101	Chemical Principles I	5
Chemistry 102	Chemical Principles II	5
Chemistry 231	Organic Chemistry I	3
Chemistry 232	Techniques of Organic Chemistry I	2
Chemistry 233	Organic Chemistry II	3
Chemistry 234	Techniques of Organic Chemistry II	2
Chemistry 310	Inorganic Chemistry	3
Chemistry 321	Physical Chemistry I	3
Chemistry 322	Physical Chemistry II	3
Chemistry 341	Instrumental Analysis I	3
Chemistry 342	Instrumental Analysis II	3
Biology 201	Biological Principles I	4
or		
Geology 110	Man and the Earth	3

**All chemistry majors planning to apply for NYS Teaching Certification in Chemistry 7-12 must take Math 121 or 184, and Physics 151 to fulfill General Education Requirements. Physics 101 may be substituted for Physics 151 (by advisement). Math 122 and Physics 152 are also required.*

II. Foundation Courses (10-13 credits)

Education 280	Childhood and Adolescent Development for Teachers	3
Education 281	Fieldwork in Educational Environments	1
Education 283	Educ. Psychology: Effective Teaching and Learning	3
Academic Computing 101	Introduction to Microcomputers	0-1
Academic Computing 210	Microcomputer Applications in Education	0-1
Academic Advanced Microcomputer Computing 250	Applications in Education	0-1
Philosophy/ Evolution of Major Ideas	Sociology 202 and Issues in Education	3
Mathematics 271	Mathematics for Elementary School Teachers	4

III. Methods Courses (6 credits)

Education 340	Literacy Instruction Inside Middle And Secondary Schools	3
Education 377	Teaching Chemistry in Secondary Schools	3

IV. Student Teaching in a Junior/Senior High School

(8 credits)

Educaton 444/445	Supervised Student Teaching in Secondary Schools	8
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Additional Requirements

Academic Computing 101	Introduction to Microcomputers I	1
Health Educ 342	Drug Use and Abuse	3
Psychology 337	Child Abuse and Neglect	1

Minor Program in Chemistry

Chemistry is central to the study of many biological and physical systems. Students majoring in biology or physics (as well as Pre-Med/Pre-Dental students) would be more competitive if they complete a minor in chemistry. Chemistry 101 and 102, Physics 151 and 152, are prerequisites for the minor program courses. Students interested in this minor will have to take these courses to fulfill their major requirements. Biology majors must take Chemistry 231, 232 and 233; Physics majors must take Mathematics 122 to fulfill their major requirements. Required minor courses for students in these majors total 12 or 16 credits.

Required Courses (20 Credits)

Credits

Chemistry 231	Organic Chemistry I	3
Chemistry 232	Techniques of Organic Chemistry I	2
Chemistry 233	Organic Chemistry II	3
Chemistry 234	Techniques of Organic Chemistry II	2
Chemistry 321 or 322	Physical Chemistry I/II	3
Mathematics 122	Calculus II	4

One course from the following:

Chemistry 310	Inorganic Chemistry	3
Chemistry 322 or 321	Physical Chemistry II/I	3
Chemistry 330	Structure and Mechanism in Biochemistry	4 3
Chemistry 341	Instrumental Analysis I	3
Chemistry 342	Instrumental Analysis II	3
Chemistry 412	Biochemistry	3
Chemistry 450	Advanced Topics in Chemistry	3

Communications Technology (B.S.)

HEGIS CODE 0605

Program Director: Che-Tsao Huang

Advisory Committee Members: Huang, Lewis, Ruttenberg, Sunmonu, Vendryes

Office: Academic Core Room 4G01, Telephone: 262-2756

Communications Technology is an interdisciplinary program incorporating liberal arts courses from diverse disciplines into a career-oriented program. It prepares students for careers in communications that employ a heavy emphasis on information technologies such as design and development of complex web pages, production and streaming of audio and video solutions, and production and delivery of digital interactive media. It enables the majors to apply the confluence of communications and information technologies in an innovative and technically proficient manner across a wide range of organizational settings. Students may choose one of three concentrations: Digital Video, Computer Graphics, or Systems and Applications.

The Program offers non-majors an opportunity to supplement their study with communication technology courses that will provide additional career preparation within their chosen major.

Major Discipline Requirements (44-48 Credits)

A. Required Courses (24 Credits)

AC 101	Introduction to Microcomputers	1
CS 172*	Introduction to Computing	4
CT 101	Introduction to Video	2
CT 201	Foundations in Communications Technology	3
CT 205	Principles of the Moving Image	3
CT 244	Multimedia Sound Production	2
ENG 384	Writing for Electronic Media OR	
ENG 282	Introduction to Telecommunications	3
FA 284*	Computer Graphics	3
HIST 373*	History of Technology	3

Area Requirements (8-10 Credits) Students may select Digital Video Concentration, Computer Graphics Concentration or Systems and Applications Concentration:

Digital Video (8 Credits)

CT 240	Television Studio Production	2
CT 345	Advanced Digital Video	3
CT 355	Video Documentary Production	3

Computer Graphics (8 Credits)

CT 360	Principles of Web Publishing	2
CT 345	Advanced Web Design	3
CT 355	Computer Graphics II	3

Systems and Applications (10 Credits)

CT 370	Applications Programming	2
CS 261	Data Communications I	4
Math 141	Discrete Mathematics	3

Major Electives (6-8 Credits) Select two courses based on student's concentration from the following:

AC 201	Computer Applications for Business and Professions	2
SPCH 203	Ethics and Freedom of Speech	3
SPCH 350	Persuasion and Propaganda in TV	3
CT 380	Teaching the Stream	3
CT 385	Multimedia Interface Design	3
CT 390	Online Community	3
CT 391	Telecommunications in Transition	3
CS 292	Intro to Database Management	4
CS 361	Data Communications II	4

Senior Requirements (6 Credits)

CT 401	Final Project/Senior Seminar	3
CT 490-491	Student Internship OR a 300- or 400-major elective	3

*To meet prerequisites for these courses, students are required to take Mathematics 115 or 121, FA 150 and one History course. These courses fulfill the General Education requirements.

Minor Program in Communications Technology

Knowledge and skills in communications technology are central to careers in all fields in the technological and Internet-based world. Courses in communications technology provide students with specific skills and technical knowledge that, in turn, enhance their chances of finding employment. Students majoring in Arts, Business, Education, English, and Journalism would be especially more competitive with completion of a minor in Communications Technology.

Minor in Communications Technology (15-16 Credits)

1. Required Courses (10 Credits)

AC 101	Introduction to Microcomputers	1
CT 101	Introduction to Video	2
CT 201	Foundations in Comm. Tech.	3
CT 240	Television Studio Production	2
CT 244	Multimedia Sound Production	2

2. Select two courses (5-6 Credits)

CT 205	Principles of Moving Images	3
CT 345	Advanced Digital Video	3
CT 355	Video Documentary Production	3
CT 360	Principles of Web Publishing	2
FA 284	Computer Graphics I	3

Computer Science (B.S.)

HEGIS CODE 0701

Chair: T.C. Wu, Department of Mathematics and Computer Studies

For information, contact the **Department of Mathematics and Computer Studies**, Room 2C07, Telephone 262-2535.

The major in Computer Science is designed for students who want to learn about computers and their interrelation with mathematics and with engineering and the physical sciences. In particular, students majoring in Computer Science will learn basic and advanced programming; design and analysis of computer algorithms for both correctness and efficiency; design and analysis of computer hardware; what is and is not mathematically possible to compute; about the mathematical theory of languages and how these theories apply to the design of computer languages, including language comparisons and implementations; management of large software projects; and how a computer operating system works.

Students who successfully complete the program will be prepared for employment as computer professionals, including computer systems analysts, software developers, systems programmers, and scientific or engineering applications programmers, or for graduate school in computer science or a related field.

Major Discipline Requirements (55-56 Credits)**

Major Required Courses (44 Credits)		Credits
CS 172	Introduction to Computing	4
CS 291	Introduction to Data Structures	4
CS 341*	Data Structures II	4
CS 357	Principles of Programming Languages	4
CS 397	Assembly Language Programming	4
CS 451	Operating Systems	4
CS 457	Introduction to Automata and Computability	4
CS 485	Computer Architecture	4
Math 122	Analytic Geometry & Calculus II	4
Math 210	Probability & Statistics	4
Math 225	Discrete Mathematical Structures	4

Major Elective Courses (11-12 Credits) Credits

Three courses, including at least two computer courses, to be chosen from:

CS 334	Computer Graphics	3
CS 377	Artificial Intelligence	3
CS 381	Software Development	4
CS 382	Software Engineering	3
CS 391	Object-Oriented Programming	4
CS 392	Database Systems	4
CS 452	Operating Systems II	2
CS 461	Network Computing	4

CS 465	Cryptography and Network Security	3
Math 230	Number Theory	4
Math 241	Combinatorial Geometry	4
Math 332	Modern Algebra	4
Math 333	Linear Algebra	4
Math 335	Mathematical Logic	4
Math 395	Numerical Analysis	4

* *Computer Science majors must pass CS 341 with a C grade or better.*

** *Students will take Math 121 to satisfy their General Education Requirement in mathematics, and courses suitable for a science major to satisfy their natural science requirement. Physics is recommended, but not required.*

Design for a Minor in Computer Science

Computers and Computer Science have become a very important part of our society and culture. The minor in CS helps students to build an understanding of the field and provides preparation for graduate study and the job market. Due to the importance of computers in the sciences, this program may be most beneficial to students in mathematics, physics, biology, and economics.

Minor Discipline Requirements (16 Credits)

I. Required Courses

Computer Science 291*	
Introduction to Data Structures	4
Computer Science 397	
Assembly Language Programming	4

II. Electives (8 Credits)

Two Computer Science courses chosen from the following.

CS 261	Data Communications I
CS 292	Introduction to Database Management
CS 341	Data Structures II
CS 381	Software Development
CS 391	Object-Oriented Programming
CS 451	Operating Systems

*CS 172 is a prerequisite, and Math 141 is a pre/corequisite for CS 291.

Cultural Diversity

Coordinator: Charles F. Coleman

Office: Academic Core Room 3D06, Telephone:262-2630

York College's program in Cultural Diversity consists of a two-course sequence which is part of the General Education Requirement. The courses are interdisciplinary and their goals are to enable students to:

1. understand how their own cultures shape and influence their values, attitudes and behaviors,
2. gain an appreciation of the contributions of their own and other cultural groups to our global civilization, and
3. develop analytical skills and attitudes that will enable them to

understand and to deal constructively with problems that arise from cultural diversity in the community and workplace.

Understanding Cultural Diversity (Cultural Diversity 101) is required of all students. In addition, students must take one of the following Cultures and Societies of the World courses: Cultural Diversity 201, 202, 203, or 210.

Economics (B.A.)

HEGIS CODE 2204

Chair: Boadnarine Bharosay, Department of Accounting and Business

Associate Professors: Althaus, Schachter

Assistant Professor: Johnson

Coordinator: David Johnson, Academic Core, Room 3B06

Department Office: Academic Core, Room 2B06, Telephone 262-2500

The Economics faculty aims to provide students with sufficient theoretical and practical tools in the areas of economics, business, and accounting to prepare them for careers immediately upon graduation, or to allow them to continue with graduate studies. The vocational opportunities for economics majors are varied and the curriculum is designed to accommodate both general interests and employment prospects.

The Economics courses focus on the performance of individuals, private firms, and public institutions — both individually and as part of a total Economic system. The Business courses examine the managerial aspects of business and government units, emphasizing the ways in which they organize their resources, including personnel.

Major Discipline Requirements (30 Credits)		Credits
Economics 101	Elementary Economic Analysis I	3
Economics 102	Elementary Economic Analysis II	3
Economics 200	Microeconomic Analysis	3
Economics 210	Macroeconomic Analysis	3
Economics 220	Introduction to Economic Statistics	3
Economics 311	Money and Banking	3
Electives in Economics, Business, Accounting* or Marketing*		9

* Students planning to do graduate work in economics should select Mathematics 121 or 184 to fulfill the General Education Mathematics Requirement. They should also take at least the following elective courses: Economics 310, 311, 340, 360, and 420.

Minor in Economics

Required Courses (15 Credits)

Economics 101	Elementary Economic Analysis I	3
Economics 102	Elementary Economic Analysis II	3
Economics 200	Microeconomics Analysis	3
Economics 210	Macroeconomics Analysis	3
Economics 220	Introduction to Economics Statistics	3

English (B.A.)

HEGIS CODE 1501

Chair: Carolyn Kirkpatrick

Professors: Hux, Kirkpatrick

Associate Professors: Andretta, Coleman, Grasso, Haller, Lewis, Papa, Rooney

Assistant Professors: Anderson, Cripps, Krishnamurthy, McGee, Namphy

Lecturer: Cline

Department Office: Academic Core, Room 2A16, Telephone 262-2470.

The Department of English aims to serve the needs of all students in the college by developing their ability to write for college and for professional work, and for their lives as citizens; by preparing them to understand and produce the writing on academic topics needed in their major disciplines; by offering them the opportunity to supplement their specialties and enrich their lives with courses in literature, writing, and language.

The Department aims to help English majors understand and appreciate a wide variety of literature; read closely and write confidently on literary topics; become acquainted with the history of the English and American literary tradition; have an opportunity to study such special areas within English studies as language history and linguistics, creative writing, and journalism; study intensively one topic in literature, writing, or language so that they may experience the pleasure of such concentration.

All Major Courses must be planned and scheduled in consultation with your Major Advisor.*

Major Discipline Requirements (36 Credits)

I. Required Foundation Courses

(Normally taken during Sophomore year) (6 credits)

English 209	Understanding Poetry	3
English 211	Foundations of Western Literature	3

II. Additional Required Courses

(Normally taken during Sophomore & Junior years) (12 credits)

English 318	Shakespeare: The Major Works	3
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One course from the following in British Literature:

English 328**	Medieval & Renaissance Literature	3
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English 333**	Restoration & 18th Century Literature	3
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English 343**	The Romantic Movement in England	3
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English 344**	Victorian Literature	3
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English 345**	20th Century British Literature	3
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One course from the following in American Literature:

English 350**	American Voices and Visions I	3
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English 352**	American Voices and Visions II	3
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English 353**	19th Century American Literature	3
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English 355**	20th Century American Literature	3
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English 356**	Studies in an American Literary Genre or Movement	3
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III. Emphasis Courses

(Normally taken during the Junior & Senior years)

*Your choice of one of three emphases: (9 credits)***1. Literature Emphasis**

English 311 Literary Studies 3

Two other courses in literature at the 300 level or higher** 6

2. Language Emphasis

English 370 Advanced English Grammar and Style 3

English 371 History of the English Language 3

English 375 English Sociolinguistics 3

3. Writing/Journalism Emphasis*One course from:*

English 280 Introduction to Journalism 3

English 286 Introduction to Creative Writing 3

Two additional courses in writing chosen in consultation with the major advisor 6

IV. Electives (9 credits)*Three additional courses in English at the 200 level or higher.***V. Seminar (Normally taken during the Senior Year)*** (3 credits)***One course from:*English 410 Seminar in English:
Special Topics 3

English 430 Seminar in British Literature 3

English 450 Seminar in American Literature 3

English 470 Seminar in the English Language 3

English 480 Seminar in Writing/Journalism 3

** All English majors should include Cultural Diversity 210 toward fulfillment of General Education requirements.**** No course may be counted toward both the Literature foundation and the Literature emphasis.***** All seminar courses are Writing Intensive.***B.A. with Honors in English (Additional 6 credits)**

(Normally taken during the Senior year)

Honors Seminars

English 492 Honors Research in English 3

English 493 Honors Research in English 3

Minors in English**English Minor (15 credits)**

The English minor is designed to encourage students who have an interest in literature and language studies, but are majoring in other areas, to pursue their interest while at York. All students proposing to minor in English should apply in the Departmental Office, where they will be assigned an advisor.

Requirements: English 209, four additional courses in English at the 200 level and above.

Journalism Minor (15 credits)

The Journalism Minor is designed to encourage students who have an interest in media and journalism, but are majoring in other areas, to pursue these fields while at York. The Journalism minor offers course work in three concentrations: Newswriting & Reporting, Broadcast Journalism, and Book & Magazine Publishing. Work on a York College publication is required. All students proposing to minor in Journalism should apply in the English Department Office, where they will be assigned an advisor

English 280 Introduction to Journalism 3

One course from:

English 281 Introduction to Feature Writing 3

English 282 Introduction to Telecommunications 3

Two courses from:

English 380 Multimedia Journalism 3

English 381 Advanced Techniques of Journalism 3

English 382 Non-Fiction Book Writing 3

One course from : 3

English 481 Broadcast Journalism Fieldwork* 3

English 483 Newswriting and Reporting Fieldwork* 3

English 486 Publishing Fieldwork* 3

Senior status required*Creative Writing Minor (15 credits)**

The Creative Writing minor is designed to meet the needs of students who have an interest in creative writing but are majoring in other areas. All students proposing to minor in Creative Writing should apply in the English Department Office, where they will be assigned an advisor.

Requirements

English 286 Introduction to Creative Writing 3

One literature elective 3

Three courses in Creative Writing at the 300-level 9

English as a Second Language (ESL)*Chair:* Edvige Coleman, Department of Foreign Languages*Professor:* Wenden*Lecturer:* Berg*Director of ESL Services:* Hamid Kherief, Academic Core, Room 3C08

The English as a Second Language (ESL) program is designed to meet the needs of students at York College whose native language is not English. To participate in our sequence of courses, the student must be tested by us after he or she has completed the College-wide testing procedures. Students accepted by the Department of English into a course in that department are exempt from taking ESL. All other

students are required to attend ESL classes. Individual academic advisement and assistance with registration is provided by the ESL faculty.

We offer a two-course sequence. Placement into each of the two levels is based upon the evaluation of a standardized test, a written composition, and an oral interview whenever necessary. Students whose English proficiency falls below our entrance level for ESL 145 (intermediate) are directed to the Language Immersion Institute of the Department of Foreign Languages or to York College's Division of Adult and Continuing Education. The two ESL levels are: 145 — high intermediate, and 150 — low advanced.

Environmental Health Science (B.S.)

HEGIS CODE 1299

Chair: Paul C. Lu, Department of Health Sciences

Coordinator: Paul C. Lu, Academic Core, Room 1E12

Professor: Loring

Associate Professor: Lu

Assistant Professors: Schleifer, Wolosin

Department Office: Academic Core, Room 1E12, Telephone 262-2720

The Environmental Health Science Program is designed for students with a special interest in improving the quality of man's physical environment.

Students will be prepared for careers in industrial, governmental, health care, urban affairs, and educational agencies concerned with environmental health, occupational health, public health, and community interaction.

As professional technologists students will be prepared to assist in the conduct of comprehensive environmental control programs. They will have acquired skills in laboratory and field procedures from the analysis of water, food and air pollutants. Those satisfactorily completing the program may seek certification by continuing their studies at the graduate level.

The program includes general and specialized components with a field study requirement only in the latter cases. Consequently, students may elect the General Program (no field study) or specialize by electing a concentration in either public health, industrial, or hospital environmental studies (with field study).

Screening Criteria and Procedures for Field Study (Internship) — Environmental Health Science

1. Matriculation at York College.
2. Completion of 64 college credits, with an overall GPA of 2.0.
3. Approval by the Health Professions Evaluation and Selection committee based upon application, interview and grade point average with procedures listed below:
 - a. Interview with the Coordinator of Environmental Health Science or Faculty of the Health Professions Program.
 - b. Three letters of recommendation from the Science Faculty at York or at another college.

Major Discipline Requirements* (60.5 Credits) Credits

I. Required Basic Science Courses

Biology 201	Biological Principles I	4
Biology 202	Biological Principles II	4
Biology 465	Microbiology	4.5
Chemistry 241	Instrumental Methods of Analysis	3
Physics 103	Physics Laboratory I	1
Physics 105	General Physics I	4

II. Required Health Professions Core Courses

HPGC 101	Basic Concepts of Health Professions	2
HPGC 211	Principles of Environmental Health Sciences	2
HPGC 212	Principles of Environmental Health Sciences (Lab)	2

III. Required Environmental Health Science Courses

Chemistry 237	Toxicology	3
HPEH 340	Pollution Control Technology	3
HPEH 343	Environmental Physiology	3
HPEH 351	Fundamentals of Air Pollution	3
HPEH 420	Water Quality Analysis and Management	4
HPEH 426	Solid Waste Management	3
HPEH 427	Industrial Hygiene	3
HPEH 428	Water Pollution Biology	3
HPEH 429	Environmental Management	3

IV. Internship OR Independent Study/Advanced Practicum

HPEH 430	Field Study in Environmental Health	6
or		
HPEH 498	Advanced Practicum	3
HPEH 499	Independent Study	3

* Environmental Health Science majors must take Chemistry 101, 102 and Math 121. They are also strongly recommended to have at least 30 credits in one science of any discipline other than those courses listed in Required Environmental Health Science Courses (III). Since Physics 104 and 106 are prerequisites for some advanced level science courses, students are highly encouraged to elect these courses as early as possible.

FIELD STUDY CENTERS — Environmental Health Science

Affiliation

Booth Memorial Hospital Infectious Disease Control

Dept. of Water Resources Bureau of Water Pollution Control

New York City Department of Environmental Protection

New York City Transit Authority

Pfizer Pharmaceutical Company

Dept. of Industrial Safety

Nassau County Department of Health
Nassau County Medical Center
Professional Services
New York City Department of Health Academy
New York City Department of Air Resources — Environmental Impact Analysis and Review
Queens Hospital Center Clinical Campus
United States Department of Labor Div. of Occupational Safety and Health

Fine Arts

Chair: James Como, Department of Fine and Performing Arts

Professor: Simkin

Associate Professor: Vendryes

Assistant Professor: Buxenbaum

Coordinator: Margaret Vendryes, Academic Core, Room 1A12b

Department Office: Academic Core, Room 1A12, Telephone 262-2400

The Fine Arts discipline offers two majors to students: *Art History* and *Studio Art*, and a minor in *Studio Art*.

Art History (B.A.)

HEGIS CODE 1003

The Art History major is designed for the student seeking to explore the art of past civilizations as well as contemporary art forms. Through a diversified program of professional quality, the student becomes familiar with problems concerning the evolution of style, the function of art in a society, and the way in which art is influenced by contemporary events.

After completing the prerequisite for all advanced art history courses, Fine Arts 104, Introduction to Fine Arts, the student may select from a variety of course offerings. The Art History major is flexible and aims to satisfy whatever plans the student has for graduate or professional work.

Major Discipline Requirements (45 Credits)		Credits
I.	Fine Arts 104 Introduction to Fine Arts	3
II. Eighteen credits chosen from the following:		
	Fine Arts 290 Ancient Art	3
	Fine Arts 291 Art of Medieval Europe	3
	Fine Arts 292 Early Renaissance Art	3
	Fine Arts 293 Visual Studies of the Urban Environment	3
	Fine Arts 294 Northern Renaissance Art	3
	Fine Arts 296 African Art	3
	Fine Arts 297 History of Still Photography	3
	Fine Arts 298 Twentieth-Century Trends in Photography	3

Fine Arts 303	Film History: Style & Imagination I	3
Fine Arts 304	Film History: Style & Imagination II	3
Fine Arts 325	Women Artists	3
Fine Arts 390	High Renaissance and Late Sixteenth-Century Art	3
Fine Arts 391	Baroque and Rococo Art	3
Fine Arts 392	Nineteenth-Century Art	3
Fine Arts 393	American Art to 1913	3
Fine Arts 394	Twentieth-Century Art in the United States	3
Fine Arts 395	Latin-American Art	3
Fine Arts 398	Afro-American Art	3
Fine Arts 402	Media, Culture and the Visual Arts	3
Fine Arts 475-479	Special Studies Seminar	3 ea.
Fine Arts 490	Twentieth-Century Art	3
Fine Arts 492	Twentieth-Century Painting	3
Fine Arts 493	Twentieth-Century Sculpture	3
III.	Fine Arts 499 Research in Art History	3
IV.	Nine credits chosen from Art Studio Major Requirements, Sections I, II, and III	9
V.	Foreign Language*	6
VI.	Electives**	6

* Twelve credits in a foreign language are usually required for admission into graduate programs in Art History.

** Elective credits should be taken in one or more of the following fields: Classics, Fine Arts, Foreign Language, History, Literature, Music, Philosophy, and Speech.

Note: At least 90 Liberal Arts credits are required.

Studio Art (B.A.)

HEGIS CODE 1002

The Studio Art major is designed to develop the student's competence and productivity in at least one area of concentration, such as painting, sculpture, photography or computer graphics. This major anticipates the growth of each student's potential through a broad variety of work and study experiences. Outlining professional as well as practical avenues of involvement, the major seeks to intensify personal motivation in art through the development of perceptual and imaginative capabilities. All courses offer a group oriented curriculum that requires an intense work habit and an open spirit of investigation. Advanced projects, guided within courses at the junior and senior levels, emphasize a clarification of personal vision through concentrated studies.

After completing basic courses in free-hand drawing, painting, sculpture and design, Fine Arts 155, 264, 150 and 152 respectively, which develop perception and formal competence, students may choose from a variety of courses to complete other requirements for the major.

All art studio classes require a minimum of 4 hours outside work per week.

Major Discipline Requirements (45 Credits) Credits

I. Six credits chosen from the following:

Fine Arts 150	Visual Design: Two-Dimensional	3
Fine Arts 151	Color	3
Fine Arts 152	Visual Design: Three-Dimensional	3

II. Six credits chosen from the following:

Fine Arts 283	Visual Communication Media I	3
Fine Arts 284	Computer Graphics I	3
Fine Arts 381	Photography I	3
Fine Arts 382	Photography II	3
Fine Arts 383	Visual Communication Media II	3
Fine Arts 384	Computer Graphics II	3
Fine Arts 385	Film Making I	3
Fine Arts 386	Film Making II	3
Fine Arts 481	Photography III	3
Fine Arts 482	Photography IV	3
Fine Arts 488	Video I	3
Fine Arts 489	Video II	3

III. Twelve credits chosen from the following:

Fine Arts 155	Drawing I	3
Fine Arts 253	Graphic Design I	3
Fine Arts 254	Graphic Design II	3
Fine Arts 258	Graphics I, Printmaking	3
Fine Arts 264	Painting I	3
Fine Arts 265	Painting II	3
Fine Arts 273	Sculpture I	3
Fine Arts 274	Sculpture II	3
Fine Arts 284	Computer Graphics I	3
Fine Arts 355	Drawing II	3
Fine Arts 358	Graphics II	3
Fine Arts 364	Painting III	3
Fine Arts 365	Painting IV	3
Fine Arts 373	Sculpture III	3
Fine Arts 374	Sculpture IV	3
Fine Arts 384	Computer Graphics II	3
Fine Arts 444-445	Advanced Studio I-II	3 ea.
Fine Arts 455	Advanced Drawing I	3

Fine Arts 456	Advanced Drawing II	3
Fine Arts 463	Painting V	3
Fine Arts 464	Painting VI	3
Fine Arts 465-469*	Special Studies: Selected Studio Area	3 ea.
Fine Arts 473	Sculpture V	3
Fine Arts 474	Sculpture VI	3

IV. Fine Arts 104 Introduction to Fine Arts 3

V. Nine credits chosen from Art History Major Requirements, Sections II and III 9

VI. Nine credits in Fine Arts electives 9

* May apply to either Area II or III depending upon title.

NOTES: At least 90 Liberal Arts credits are required. Majors in Fine Arts must fulfill their General Education Requirements in a discipline other than in their major.

MINOR IN STUDIO ART

Required Courses (15 Credits)

I. Three credits chosen from the following:

Fine Arts 264 - Painting 1	3
Fine Arts 273 - Sculpture 1	3
Fine Arts 155 - Drawing 1	3
Fine Arts 150 - Two Dimensional Design	3
Fine Arts 152 - Three Dimensional Design	3

II. Three credits chosen from the following:

Fine Arts 381 - Photography 1 (Prereq. Waived)	3
Fine Arts 284 - Computer Graphics 1(Prereq. Waived)	3
Fine Arts 488 - Video 1 (Prereq. Waived)	3
Fine Arts 253 - Graphic Design 1	3

III. Three credits chosen from the following:

Fine Arts 290 - Ancient Art	3
Fine Arts 291 - Art of Medieval Europe	3
Fine Arts 292 - Early Renaissance Art	3
Fine Arts 296 - African Art	3
Fine Arts 297 - History of Still Photography	3
Fine Arts 325 - Women Artists	3
Fine Arts 394 - Twentieth Century Art in the US	3
Fine Arts 390 - High Renaissance & Late Sixteenth Century	3
Fine Arts 395 - Latin American Art	3
Fine Arts 398 - Afro-American Art	3

Fine Arts 296 - African Art	3
Fine Arts 402 - Media, Culture and the Visual Arts	3
Fine Arts 490 - Twentieth Century Art	3

D. Six credits in Fine Arts ELECTIVES

Choose any art studio classes not already taken in any sequence offered in the semester's course listings; a concentration in a specific media area OR additional variety in different media is permitted.

1st Studio Art Elective	3
2nd Studio Art Elective	3

French (B.A.)**HEGIS CODE 1102**

Chair: Edvige Coleman, Department of Foreign Languages

Professor: Serrano

Department Office: Academic Core, Room 3C08,

Telephone 262-2430

1. Major Discipline Requirements (36 Credits)

French 212	Phonetics	3
French 217	Advanced Composition & Style	3
II. Choose IIa or IIb		
IIa. Traditional French Credits		
French 220 - Masterpieces of French Literature from Middle Ages to 20th Century		3
French Electives 200 level or above		27
IIb. French/Haitian		
For students interested in Haitian Culture & Civilization or in Bilingual Teacher Education		
Creole 205 - Advanced Creole Writing & Composition		3
Creole 208 - Masterpieces in Creole Literature		3
French 206 - Introduction to Haitian Literature (in French)		3
French 220 - Masterpieces of French Literature from Middle Ages to 20th Century		3
French 334 - Literature of the French West Indies		3
or		
French 335 - Literature of French Speaking Africa		3
French 382 - Haitian Culture & Civilization		3
Additional credits in French or Creole (at the 200 level or above)		
		12
Six additional credits for Honors Program		

The discipline is strongly recommending Humanities 253, (The Haitian Experience in the USA), African-American Studies 341 (The Black Experience in the French Caribbean) and Sociology 235 (Ethnicity).

Design for a Minor in French and Francophone Studies

The French/Francophone minor is designed to provide students with a better understanding of French & Creole languages and Francophone culture. This minor is directed at those students who wish to further develop their language proficiency and can be structured to complement the individual's personal and professional goals.

Minor in French & Francophone Studies (15 Credits)**Select Two Courses (6 Credits)**

		Credits
Creole 106	Intermediate Creole II	3
French 106	Intermediate French II	3
French 212	Phonetics	3
French 220	Masterpieces of French Literature	3

Select Three Courses from the Following List (9 Credits)*Language*

Creole 205 Advanced Creole Writing & Composition	3
French 217 Advanced Grammar & Composition	3
French 225 Commercial French	3
French 240 Translation	3
Creole 241 Translation	3

Literature

French 206 Introduction to Haitian Literature	3
Creole 208 Masterpieces in Creole Literature	3
French 323 The Novel in the 19th Century	3
French 325 The Age of Enlightenment	3
French 328 The 20th Century Novel and Theatre II	3
French 330 The Age of Classicism	3
French 334 Literature of the French West Indies	3
French 335 Literature of French Speaking Africa	3

NOTE: In French 101 and 102, there will be some audio-visual sections for students who prefer a greater emphasis on the spoken language, integrating the use of films, video tapes and laboratory materials.

Foreign Languages

Chair: Edvige Coleman

Department Office: Academic Core, Room 3C08, Telephone 262-2430

Through the study of the language, literature and civilization of various cultures, the Department of Foreign Languages aims to enrich the education of all students and prepare them for various careers. The principal objectives are to:

1. prepare students to understand, read, speak and write a second language;
2. to give them an understanding and appreciation of the literature and civilization particular to that language; and
3. to provide them with a comparative element that will enable them to improve communication skills in their own language.

The department offers courses in a variety of languages, interdisciplinary courses in the Humanities, courses in English as a Second Language and in Puerto Rican Studies, with majors in French and Spanish and minors in French, Italian Studies, Latin American Studies, Puerto Rican Studies, Spanish, Women's Studies and World Literature.

The instructional program is enhanced by the Language Laboratory and web supported materials. Annual events sponsored by the department which help to reinforce the instructional program are a poetry contest, student journals, international film festivals and conference and colloquia, designed not only to enhance the academic program but also to involve high school of the Queens area and the Jamaica community.

If it is determined that a student is too advanced for a specific language course after observation in the classroom by the instructor, the student may be requested to change to a higher level course.

For Major Programs in French, Spanish, Spanish with Secondary Education and Spanish with Bilingual Education —SEE ALPHABETICAL LISTINGS

For Minor Programs in French, Italian Studies, Latin American Studies, Puerto Rican Studies, Spanish, Women's Studies and World Literature—SEE ALPHABETICAL LISTINGS

For Language Proficiency Citation of Achievement in French, Italian, Spanish or consult the chair of the Foreign Languages Department.

Surveys indicate that graduates who can demonstrate proficiency in a foreign language expand their career opportunities. To help students prove achievement in their foreign language studies, the Department grants a Citation of Achievement in French, Italian or Spanish, which can be presented to prospective employers. An intermediate proficiency citation will be offered to students completing 10-14 credits in foreign language with a B average in those courses.

Intermediate Proficiency (Credits 10-14)

Required Courses to be chosen from the following:

French — French 101*, 102, 105, 106 or 213.

Italian — Italian 101*, 102, 105, 106 or 230.

Spanish — Spanish 101*, 102, 105, 106

**This course may be waived if the student is qualified to pass an exemption examination.*

Foreign Language Literature Courses Offered in English

These courses also are open to all students. *For descriptions, see specific departments.*

French 221 (French Literature from the Middle Ages to the Revolution in Translation),

World Literature 201: The Literature of the Western World through The Renaissance

World Literature 210 (Modern French Literature in Translation),

Humanities 204 (Ibsen and Strindberg),

World Literature 211 (Italian Theatre in Translation),

Italian 353 (Italian Culture and Civilization), Italian 356 (A Major Italian Author in Translation),

World Literature 212 (Masterpieces of Spanish Literature in Translation),

World Literature 206 (Introduction to the Literature of the Caribbean),

World Literature 205 (Introduction to Francophone Literature),

World Literature 207 (Introduction to the Literature of Latin America)

Geography

*For information, please consult the **Department of Natural Sciences**, Academic Core, Room 3F01.*

Geology (B.S.)

HEGIS CODE 1914

Chair: Martin Spergel, Department of Natural Sciences

Professors: Lakatos, Loring

Assistant Professor: Schleifer

Coordinator: Arthur P. Loring

Department Office: Academic Core, Room 3F01, Telephone 262-2650

Geology is a dynamic discipline, intimately related to the proper management of earth resources and the human environment. The program prepares the student to function upon graduation as a professional geologist, or to continue his studies on the graduate level. In addition, geology majors may prepare for careers as high-school science teachers.

Knowledge of the earth has assumed critical importance because of the imminent depletion of many natural resources and the rapid deterioration of the physical environment. Shortages in fossil fuels, metals and industrial minerals have opened excellent job opportunities for graduates with a Geology degree. In addition, Federal and State environment regulations are requiring more geological information than ever before. Oil and mining companies, consulting firms, federal, state and city agencies are employing our graduates at present.

The objectives of the geology curriculum are to provide the student with a scientific understanding of earth materials, their properties, arrangement and distribution, as well as the dynamic processes that affect them; the historical dimension of the earth and its inhabitants and the evolutionary processes that shaped them; the geologist's role in the proper planning for use of earth resources and the maintenance of the quality of the environment.

Major Discipline Requirements (55-58 Credits)		Credits
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I. Required Foundation Courses		
Geology 110	Man and the Earth	3
Geology 140	Our Earth	3

Geology 207	Geologic Techniques	1
Chemistry 102	Chemical Principles II	5
Geology 211	Structural Geology	4
Geology 213	Paleontology	3.5
Geology 225	Mineralogy	5
Geology 326	Petrology with Optical Mineralogy	5
Geology 305	Earth History	3
Geology 323	Field Methods	1.5
Geology 425	Field Mapping	4

II. Plus eight credits chosen from the following electives:

Geology 282	Weather and Climate	3
Geology 308	Geomorphology	3
Geology 340	Remote Sensing and Air Photo Interpretation	2
Geology 341	Ground Water Hydrology	2
Geology 342	Rock and Soil Mechanics	2
Geology 343	Ore Deposits and Ore Evaluation	2
Geology 344	Industrial Minerals and Fossil Fuels	2
Geology 346	Laboratory Techniques in Geology	2
Geology 349	Assessment of Environment Impact	1
Geology 403	Paleoecology	3
Geology 411	Sedimentation	3
Geology 412	Stratigraphy	3
Geology 441	Geochemistry	3
Geology 442	Geophysics	3
HPEH 140	Environmental Management (Basic)	3
HPEH 340	Pollution Control Technology	3
HPEH 420	Water Quality Analysis & Management	3
HPEH 426	Solid Waste Management	3
HPEH 429	Environmental Management (Advanced)	3

III. Plus eight to ten credits consisting of two of the following lecture sets:

Biology 201	Biological Principles I	4
Biology 202	Biological Principles II	4
or		
Physics 151	University Physics I*	4
Physics 152	University Physics II*	4

IV. Plus at least four credits from the following courses:

Mathematics 111**	Introduction to Statistics and Probability	4
Mathematics 122	Analytic Geometry and Calculus II	4

Mathematics 172	Introduction to Computing	4
Mathematics 121	Analytic Geometry and Calculus I+	4

All Geology majors must take Chemistry 101 to fulfill the General Education Requirement.

* Geology majors may elect to take Physics 101 and Physics 102 in place of Physics 151 and Physics 152.

** The Mathematics course (Mathematics 111 or 121 or 184) taken to fulfill the General Education Requirement cannot fulfill the Section IV requirement for this major.

+ Math 184 may be substituted for Math 121.

B.S. with Honors in Geology

Eligibility: A 300-level Geology course and a 3.0 average in all Geology courses. Approval by the Faculty of the Geology Discipline.

Requirements for Graduation with Honors:

1. Successful completion of the Geology Major Discipline requirements and a 3.0 average in all Geology courses.
2. Successful completion of 6 credits of 400-level courses in the Geology Discipline consisting of independent research under the supervision of a faculty member and successful presentation of a thesis to the faculty members of the Geology Discipline.
3. Certification by the Faculty of the Geology Discipline.

Students planning to seek New York State teaching certification in a natural science should file an application form in the Teacher Education Program during their sophomore year. Once accepted, it is the student's responsibility to seek advisement from the Science Education Office.

Students intending to teach Geology (Earth Science) at the secondary school level must successfully complete the requirements of a major in this discipline. **Students selecting or considering this specialization are directed to report in person to the Discipline Coordinator for advisement.**

Gerontological Studies & Services (B.S.)**HEGIS CODE 2299.01**

Chair: Linda R. Barley, Department of Health & Physical Education and Gerontological Studies & Services

Coordinator & Advisor: David Ajuluchukwu

Department Office: Health & Physical Education Building, Room P201, Telephone 262-5100

This interdisciplinary program of study provides an opportunity for students to develop a compassionate and constructive view of older adults and the process and problems of aging. Graduates of this program will be prepared to continue their education at the graduate level, or to enter employment in their chosen fields. The Field Work component permits students the opportunity to experience first-hand, the realities of working with well and frail elderly in the field of gerontological studies and services.

Major Discipline Requirements (53 Credits)**I. General Education Program Requirements (21 Credits)**

Gerontology 101	Introduction to Gerontology I (Interdisciplinary)	3
Gerontology 201	Intermediate Gerontology	3
Gerontology 301	Wellness and the Elderly	3
Psychology 280	Psychology of Geriatrics	3
Psychology 283	Psychology of Death and Dying	3
Social Work 203	Social Welfare Programs	3
Health Education 341	HIV/AIDS: Public Health Implications	3

II. Skills Requirements (20 Credits)

Health Education 320	Program Planning	3
Health Education 321	Health Counseling	3
Health Education 323	Health Behavior	2
Health Education 324	Health Behavior Lab	1
Physical Education 322	Recreation: Organization and Leadership	3
Physical Education 353	Physical Activity for Special Populations	2
Psychology 381	Psychological Consequences of Chronic Disabilities	3
Social Work 300	Generalist Social Work Practice I and Skills Lab	3

III. Elective Requirements — Select two courses (6 Credits)

Anthropology 302	Human Aging Cross-Culturally	3
Biology 283	Biology of Aging	3
Political Science 273	Politics of Aging	3
Sociology 236	Sociology of Aging	3

IV. Field Work 6**1. Field Work Option —**

Select any courses from the following: 6

Health Education 471-474, or

Physical Education 471-474,

MINOR IN GERONTOLOGY

A minor in Gerontology will afford non-majors the opportunity to broaden their knowledge and skills to work with and support the aging.

Required Courses: (15 Credits)**I. Required Major Discipline Courses**

Gerontology 101	Introduction to Gerontology	3
Gerontology 201	Intermediate Gerontology	3
Gerontology 301	Wellness and the Elderly	3

2. Elective Requirements

(Select two courses from the following):

Anthropology 302	Anthropology of Aging	3
Biology 283	Biology of Aging	3
Political Science 273	Politics of Aging	3
Sociology 236	Sociology of Aging	3
Psychology 280	Psychology of Geriatrics	3
Psychology 283	Psychology of Death and Dying	3

Health Education

Chair: Linda R. Barley, Department of Health & Physical Education and Gerontological Studies and Services

Professors: Bailin, Barley, Molina

Associate Professors: Ajuluchukwu, Brodsky

Assistant Professors: Agin, Butcher, Marshall, Murray, Werber-Zion
College Laboratory Technician: Holloman

Department Office: Health and Physical Education Building, Room P201, Telephone 262-5100

There are three (3) majors in Health Education: **Community Health Education, School Health Education (K-12), and Health Promotion Management**. Each Health Education program in requires the following courses: HE 320, HE 321, HE 323, HE 324, and HE 481.

Community Health Education (B.S.)**HEGIS CODE 0837**

The Community Health Education major is designed to prepare specialists skilled in designing, planning, and implementing health education programs for individuals, groups, and communities to engage in voluntary change in behavior conducive to health. Settings in which Community Health Educators are employed are :

1. Hospitals and other health-care institutions in patient education programs.
2. Community-based health education programs initiated by health departments, Boys & Girls Clubs, community clinics and outreach services.
3. National health-related agency programs including such organizations as the American Cancer Society, The American Lung Association, The National Foundation-March of Dimes, The American Red Cross, The National Safety Council and the American Medical Association.

In addition, students are prepared to enter graduate programs in health education and related fields.

Major Discipline Requirements (45 Credits)**I. Required Courses:** (23 Credits)

Health Education 319	Health Services	3
Health Education 320	Program Planning	3
Health Education 321	Health Counseling	3
Health Education 323	Health Behavior	2
Health Education 324	Health Behavior Lab	1
Health Education 471-474	Field Work	4
Health Education 481	Organization and Administration	3
*Biology 281	Human Structure and Function	4

II. Electives: (16 Credits)

Health Education 200	Basic Cardiac Life Support	1
Health Education 211	Stress and Health	2
Health Education 241	Sex and Sexuality	3
Health Education 312	Health and Disease	3
Health Education 313	Alcohol and Alcoholism	3
Health Education 314	Nutrition and Health	2
Health Education 315	Consumer Health	2
Health Education 316	Family Health	3
Health Education 317	First Aid	2
Gerontology 301	Wellness and the Elderly	3
Health Education 341	HIV/AIDS Policy Issues	3
Health Education 342	Drug Use and Abuse	3
Physical Education 358	Physiology of Exercise	3
Health Education 420	Alcoholism Counseling	3
Health Education 450	Practicum in Health Education	2
Physical Education 452	Cardiovascular Fitness	3
Health Education 471-474	Field Work	2

* *Biology 120 is the prerequisite to Biology 281 and must be fulfilled.*

III. Psychology Electives: (6 Credits)

(Select two from the following)

Psychology 215	Human Development I: Infancy/Childhood	3
Psychology 216	Human Development II: Adolescence/Maturity	3
Psychology 283	Psychology of Death and Dying	3
Psychology 332	Social Psychology	3
Psychology 338	Abnormal Psychology	3

* *Biology 110 and 120 recommended to partially fulfill Natural Science and Mathematics General Education Requirements.*

** *May substitute PRST 241-3*

Registered Nurses are exempt from Biology 281 under Group I; they are required to complete at least 8 credits under Group II.

Health Education Majors Planning to Apply for New York State Teaching Certification in Health Education K-12 (B.S.) HEGIS CODE 0837

Coordinator and Advisor: Linda Barley

Students planning to seek New York State teaching certification in Health Education K-12 are required to file an application for admission form in the Teacher Education Department office during their sophomore year. Students who do not apply during their sophomore year or fail to seek advisement through the Teacher Education Program will not be eligible for certification.

Students who wish to pursue the School Health Education major and who wish New York State Provisional Certification, should consult their major advisor for proper programming.

The School Health Education major is designed to prepare students to teach health education grades K-12. School health educators are skilled in health instruction as well as in curriculum development. In cooperation with the Teacher Education Program, this program leads to teaching certification by New York State.

In addition, students majoring in School Health Education are prepared to enter graduate programs in health education and related fields.

Major Discipline Requirements (40 Credits)

Required Courses:		Credits
Health Education 241	Sex and Sexuality	3
Health Education 312	Health and Disease	3
Health Education 314	Nutrition and Health	2
Health Education 315	Consumer Health	2
Health Education 316	Family Health	3
Health Education 317	First Aid and Safety	2
Health Education 319	Health Services	3
Health Education 320	Program Planning	3
Health Education 321	Health Counseling	3
Health Education 323	Health Behavior	2
Health Education 324	Health Behavior Lab	1
Health Education 342	Drug Use and Abuse	3
Health Education 363	Measurement and Evaluation in Health and Physical Education	3
Health Education 481	Organization and Administration of Health Education	3
Biology 281 *	Human Structure and Function	4

* *Biology 120 is the prerequisite to Biology 281 and must be fulfilled.*

Course Requirements (31-34 Credits) Credits

I. Foundation Courses

Academic Computing 101	Introduction to Microcomputers I	1
Academic Computing 210	Microcomputer Applications in Education	1
Academic Computing 250	Advance Microcomputer Applications in Education	1
Education 280	Child and Adolescent Development for Teachers	3
Education 281	Field Work in Education Environments	1
Education 283	Effective Teaching and Learning	3
Mathematics 271	Mathematics for Elementary School Teachers	4
Sociology/Philosophy 202	Evolution of Major Ideas and Issues in Education	3
Education 329	Curriculum & Methods in Teaching Education at the Elementary Level	3
Education 330	Curriculum & Methods in Teaching Health Education at the Secondary Level	3
Education 340	Literacy Instruction Inside Middle & Secondary Schools	3

III. Student Teaching:

Education 418	Supervised Student Teaching, Health Education (grades K-6)	4
Education 419	Supervised Student Teaching, Health Education (grades 7-12)	4

MINOR IN HEALTH EDUCATION

REQUIRED COURSES (15 Credits)

Required Major Discipline Courses (9 Credits)

Health Education 319	Health Services	3
Health Education 321	Health Counseling	3
Health Education 323	Health Behavior	2
Health Education 324	Health Behavior Lab	1

Elective Requirements (6 Credits)

Select two courses from the following:

Health Education 200	Basic Cardiac Life Support	1
Health Education 211	Stress and Health	2
Health Education 312	Health and Disease	3
Health Education 241	Sex and Sexuality	3
Health Education 314	Nutrition and Health	2
Health Education 316	Family Health	3
Health Education 317	First Aid and Safety	2

Health Education 341	HIV/AIDS	3
Health Education 342	Drug use and Abuse	3

Health Promotion Management (B.S.)

HEGIS CODE 0837

Coordinator and Advisor: Ouida Murray

The Health Promotion Management specialist develops health promotion programs designed to maintain and/or improve behavior that will enhance the well-being of program participants. Objectives are accomplished through a series of educational, organizational, and environmental activities.

Health Promotion programs address personal lifestyle and health issues, such as stress management, exercise and physical fitness, smoking cessation, drug and alcohol abuse, weight control, nutrition education, hypertension and cholesterol control. Initially, program participants are evaluated for present levels of disease, lifestyle behaviors, and risk factors. Interventions are then initiated which focus on the modification of health risks and maintenance of healthy lifestyles.

Settings in which Health Promotion Management specialists are employed include: hospitals, private and resort based health and fitness centers, colleges and universities, government agencies, private wellness and health promotion counseling firms, and in worksite health promotion centers.

Major Discipline Requirements (50 Credits) Credits

I. Required Courses:

Health Education 211	Stress and Health	2
Health Education 314	Nutrition and Health	2
Health Education 320	Program Planning	3
Health Education 321	Health Counseling	3
Health Education 323	Health Behavior	2
Health Education 324	Health Behavior Lab	1
Health Education 342	Drug Use and Abuse	3
Physical Education 358	Physiology of Exercise	3
Physical Education 362	Kinesiology	3
Physical Education 363	Measurement and Evaluation HPE	3
Physical Education 452	Cardiovascular Fitness	3
Health Education 471-4	or	
Physical Education 471-4	Field Work (Coreq: HE 488*)	1
Health Education 481	Organization and Administration of HE or	
Physical Education 482	Organization, Administration and Supervision of PE	3
*Health Education 488	Health Promotion in the Workplace	3

II. Business and Accounting required courses (10 Credits)

Accounting 101	Accounting I	4
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** Business 301	Management Theory and Practice	
or		
Business 312	Staff Supervision and Employee Relations	3
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Marketing 341	Introduction to Marketing	3
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III. Field Work		(5 Credits)
<hr/>		
Field Work Option		(5 Credits)
Select any courses from the following:		
Health Education 472-474, or		
Physical Education 471-474		

* HE/PE Field Work is a co-requisite for Health Education 488.

** Prospective Health Promotion Management Majors must take Economics 101, which may be used towards fulfillment of the Behavior Science Area Requirements. The following courses are strongly recommended: Psychology 350, 352, 355, and 383.

Health Sciences

Chair: Paul C. Lu, Department of Health Sciences
Department Office: Academic Core, Room 1E12, Telephone 262-2720

The Health Science Programs aim to prepare students for health careers that are important for the socio-economic development of the community. Students may elect careers in **environmental health science, medical technology, nursing, occupational therapy, or physician assistant***. The curriculum for each of these majors is designed to blend liberal arts and professional education. In addition, the design of the professional curriculum is based on prerequisite education in the basic sciences, and a conceptual core of knowledge in the health sciences. The Health Science Programs are part of the Allied Health Sciences Consortium of Greater Queens.

Admission to Health Sciences Program

Admission to each program takes place at the upper sophomore or lower junior level. Acceptance is based on matriculation at York College, completion of at least 48 credits with a specified grade point average according to the discipline (see each discipline for details), and approval by the Health Sciences Evaluation and Selection Committee. Applicants are not considered "accepted" until they receive a letter from the Health Science Program stating acceptance in a particular program.

Clinical Internships:

Each of the programs of study at York includes a prescribed sequence of courses at the college and may include a prescribed period of clinical education in a center.

While the college assists in placement for clinical education, the cooperating agencies may make student selections. The college cannot, therefore, guarantee every student an internship. In some instances the cooperating agency may require the payment of fees. Such fees are the responsibility of the student, although the college will provide the assistance of its Financial Aid Office if it is desired. Refer to specific discipline for information criteria.

*pending

History (B.A.)

HEGIS CODE 2205

Chair: Howard Ruttenberg, Department of History and Philosophy
Professor: Parmet

Associate Professor: Fishman

Assistant Professor: Atangana

Department Office: Academic Core, Room 3D08, Telephone 262-2635

The History faculty seeks to impart knowledge of the societies and cultures of the past both to enlarge students' their fund of information and to help them attain greater perspective for evaluating present day events. The courses and programs of study are designed to develop an appreciation of the study of history as one of the major modes of humanity's search for knowledge of itself as well as a familiarity with the methods historians employ. The historian's investigative techniques sharpen students' capacity for logical and critical thought. Class discussion and writing assignments help them to attain clarity and facility in oral and literary expression.

The History major prepares a student for a career in a number of diverse fields: as an archivist, business executive, diplomat, foreign service officer, professional historian, intelligence analyst, journalist, lawyer, management trainee, museum specialist, personnel worker, public relations officer, reference librarian, research assistant, teacher, travel guide, and writer. While some of these professional activities require further study in graduate school, others can be entered directly upon receipt of a bachelor's degree in history.

Major Discipline Requirements	(36 Credits)*
24 credits to be distributed among the following three fields with a minimum of six credits in each: United States History, Asian/African/Latin American History, European History	24
An additional 12 credits in History or related disciplines	12

*100-level courses do not meet History major requirements.

The History faculty strongly advises all History majors to take a broad range of courses in History and to attain competency in a foreign language at the 106 level, especially if graduate school is anticipated. History majors who plan to pursue graduate studies should be aware that the following are probable admission requirements they would encounter: at least 24 undergraduate credits in history, a reading knowledge of at least one foreign language, satisfactory Graduate Record Examination scores, and a bachelor's degree.

Specific language requirements for the doctorate should be carefully checked prior to application to graduate schools.

For further information on graduate studies in History, students are advised to consult the Faculty Advisor, Dr. Robert Parmet.

B.A. with Honors in History

Juniors and Seniors who meet the following requirements, a 3.6 average, a minimum of 24 credits in elective History courses, and either a 400-level History seminar or History 490, Senior Research in History, should apply for graduation with a B.A. with Honors in History.

Design for a Minor in History

History is an essential part of all liberal education, providing students with awareness of the story of humanity which their own lives and communities continue. A History minor gives students an opportunity to enrich their curriculum by studying this vital story in greater depth while pursuing major concentrations in other disciplines.

Minor Discipline Requirements (15 Credits)

United States History	3
European History	3
Asian/African/Latin American History	3
Other History	6

All courses must be at the 200 level or above.

Humanities

For information about these courses, please consult the **Department of Foreign Languages**, Academic Core, Room 3C08. Chair: Edvige Coleman

The Department of Foreign Languages, ESL and Humanities offers a number of reading and writing intensive courses designed to acquaint students with various areas of interest from the world's humanist tradition. Courses are taught in English.

Information Systems Management (B.S.)

HEGIS CODE 0507

For information concerning this program, consult the **Department of Mathematics and Computer Studies**, Room 2C07, Telephone 262-2535

The Mathematics and Computer Studies Department, jointly with the Department of Accounting and Business, sponsors a Bachelor of Science Degree in Information Systems Management (Computer Studies).

This program combines courses in computer studies, accounting, business, economics and management. It is designed to train students for careers as software developers, systems analysts, network engineers and administrators, and information scientists.

Students will complete courses in three categories. The first consists of courses required of all majors. The second consists of 2 eight-credit tracks, one of which must be completed. The first track is Data Communication and is intended for students interested in networks, data transfer and communication. The second track, Business Technology, is intended for students interested in programming and maintaining software applications. To fulfill the third category, a major will choose three electives.

Major Discipline Requirements (56 - 59 Credits)*

I. Major Required Courses 39 credits	Credits
Accounting 101 - Accounting I	4
Accounting 102 - Accounting II	4

Business 301 - Management Theory and Practice	3
Business 402 - Management Information Systems	3
Economics 102 - Elementary Economic Analysis II	3
Economics 220 - Introduction to Economics Statistics	3
Mathematics 141 - Discrete Mathematics	3
Computer Studies 172 - Introduction to Computing	4
Computer Studies 291 - Introduction to Data Structures	4
Computer Studies 292 - Introduction to Data Base Manag.	4
Computer Studies 397 - Machine Organization	4

II. Plus one of the following tracks (8 Credits)

A. Data Communications	
Computer Studies 261 - Data Communication I	4
Computer Studies 361 - Data Communication II	4
B. Business Technology	
Computer Studies 371 - Business Programming	4
Computer Studies 391 - Object Oriented Programming	4

III. Plus at least three courses from the following (9 - 12) Credits

A. Co-op 111**	3
B. Computer Studies: any Computer Studies Course numbered 200 or above	
C. Mathematics***	
Mathematics 121 or 184 - Analytic Geometry and Calculus I	4
Mathematics 122 - Analytic Geometry and Calculus II	4
Mathematics 210 - Probability and Statistics I	4
Mathematics 241 - Combinatorial Geometry	4
Mathematics 333 - Linear Algebra	4
D. Business****	
Business 283 - Business Law	3
Business 321 - Business Finance	3
Business 348 - Production and Operations Management	3
Business 481 - Business Policy	3

* Majors in this program must take Economics 101 and either Math 115 or Math 121 or Math 184. These courses satisfy General Education Requirements.

** This course is required for students without substantial work experience. All exemptions must be approved by the ISM Coordinator

*** Students interested in graduate study in Computer Science are strongly advised to take Mathematics 121 or 184, Mathematics 122 and Mathematics 210 or minor in Mathematics. **** Students interested in graduate study in Business are strongly advised to take Mathematics 121 or 184, Business 283, Business 321, and Business 481.

Italian

Chair: Edvige Coleman, Department of Foreign Languages
Professor: Coleman
Coordinator: Edvige Coleman, Academic Core, Room 3C08,
 Telephone 262-2430

MINOR IN ITALIAN STUDIES

The Italian Studies minor is designed to provide students with a better understanding of Italian language and culture. The minor is directed at those students who wish to combine Italian cultural studies with their professional goals.

Minor Discipline Requirements (15 credits)		Credits
Language		(6 credits)
Italian 106	Intermediate Italian II	3
Italian 230	Intermediate Conversation	3
Literature (courses taught in English)		(6 credits)
<i>Choose 2 courses from the following list:</i>		
World Literature 211	The Italian Theater in Translation	3
Italian 353	Italian Culture and Civilization	3
Italian 356	A Major Italian Author in Translation	3
Italian 405	Seminar in Italian Literature	3
Cultural Studies		(3 credits)
<i>Choose one course from the following list:</i>		
Cultural Diversity 210	Western Civilization	3
Fine Arts 292	Early Renaissance Art	3
Fine Arts 390	High Renaissance/Late 16th Century Art	3
World Literature 201	Classical Civilization through Literature	3
Humanities 250	The Italian Experience in the U.S.	3
Political Science 268	Political Theory II: Machiavelli to Marx	3
Humanities 230	An Introduction to The History of Opera Across Cultures	3

Latin American Studies

For information, please consult the Department of Foreign Languages, Academic Core, Room 3C08.

Chair: Edvige Coleman

Latin American Studies intends to provide students with a better understanding of Latin American cultures and people and is also directed to those students interested in serving the Hispanic community locally and nationally.

In conjunction with their major disciplines, students will find that a Latin American studies concentration offers more flexibility in seeking careers in journalism, U.S. Foreign Service, teaching, social work, finance, urban interest fields such as geriatrics, occupational therapy and bilingual programs, as well as further area specialization in graduate school programs in history and the social sciences.

The Area of Concentration in Latin American Studies consists of 21 credits: 9 required credits and 12 elective credits. Upon successful completion of the requirements of the baccalaureate degree and

the area concentration, the student will be awarded a Citation of Achievement in Latin American Studies.

Required Credits:	Credits
One Spanish language or literature course	3
Two courses chosen from the following	6
Anthropology 243, 244	
History 367, 368	
Political Science 214, 250, 252	
Sociology 235	
Elective Credits:	
Four courses to be chosen from the following:	12
Anthropology 243, 244, 249, 442;	
Economics 331; Fine Arts 395;	
History 367, 368;	
Humanities 272;	
Political Science 214, 250, 251, 252;	
Sociology 235; Spanish 201, 202, 203, 304, 306, 332, 413.	

Minor in Latin American Studies

The Latin American Studies minor intends to provide students with a better understanding of the Latin American cultures and people and also is directed to those students interested in serving the Hispanic community locally and nationally.

Minor Discipline Requirements (15 credits)		Credits
I. Required Courses		(9 credits)
History 368	Latin America since 1825	3
Political Science 250	Latin American Politics	3
Spanish language or literature:		
One course above the 105 level		
II. Choose two courses from the following list		(6 credits)
Anthropology 249	Anthropology of Puerto Rico	3
Fine Arts 395	Latin-American Art	3
Humanities 272	The Latino Experience in the U.S.	3
Cultural Diversity 201*	Culture/Societies of the World: Africa Latin America and the Caribbean	3
Spanish 201	Hispanic-American Literature from its Origins through Modernismo	3
Spanish 202	Hispanic-American Literature after Modernismo	3
Spanish 203	Hispanic-American Short Story	3
Spanish 304	Puerto Rican Literature	3
Spanish 306	Indigenismo in 20th Century	
	Hispanic-American Fiction	3
Spanish 332	The Contemporary Hispanic-American Novel	3
Spanish 413	Hispanic Orientation	3

* Cannot be used to fulfill General Education and Minor Requirements.

Courses chosen to fulfill these minor requirements cannot be used to fulfill General Education and Major Requirements.

Liberal Studies (B.A.)

HEGIS CODE 4901

Coordinator: Howard Ruttenberg, Department of History and Philosophy

Department Office: Academic Core, Room 3D08, Telephone 262-2635

This major combines a wide scope of studies with concentration on the skills of textual analysis. Liberal Studies majors learn to discover the structure of meaning in accounts of facts in history and social science texts, in literary plots of imaginative possibilities, in theories of natural and social science, and in the abstract arguments of philosophy. Requirements in history, social science, literature, and philosophy also ensure a global perspective on what it means to become a liberally educated person.

Major Requirements (36-38 Credits)

Courses taken to fulfill General Education requirements do not count toward meeting Liberal Studies major requirements.

Courses can count, however, to meet both Liberal Studies and Teacher Education requirements.

I. Social Science, History & Philosophy (18 credits)

4 courses, 2 in the Social Sciences and 2 in History, 200-level or above (at least 2 at 300-level or above), including American/European Social Science & History (2 courses)* and African/Asian/Caribbean/Latin American Social Science & History (2 courses)

**[Teacher Education (TE) Students choose 1 course in United States Social Science & 1 in United States History and 1 course in Caribbean/Latin American Social Science & 1 in Caribbean/Latin American History]

B. 2 courses, 200-level or above; 1 in Social Science Theory and 1 in Philosophy*

*[TE Students choose 1 on the United States and 1 on the Caribbean/Latin America]

II. Literature, Art, Music, Theater (9 credits)

3 courses 200-level or above (at least one at 300-level or above): 1 in English/United States Literature; 1 in African/Caribbean/European/Latin American Literature;* and 1 in Art/Music/Theatre *[TE Students choose 1 course in United States and 1 in Caribbean/Latin American Literature]

III. Natural Science & Mathematics (6-8 credits)

2 courses 1 in Natural Science (Astronomy, Biology, Chemistry, Geology, Physics) and 1 in Mathematics*

*[Mathematics 271 does not meet this requirement.]

IV. Interdisciplinary* Senior Seminar (3 credits)

Liberal Studies 400

*[Taught by a different College discipline each year]

The following is a list of courses that meet Liberal Studies major requirements.

I. SOCIAL SCIENCE, HISTORY, & PHILOSOPHY

Social Science & History:

United States

African-American Studies 242, 245, 331

Anthropology 246

Economics 333, 350, 360, 361

English 375

History 201, 202, 204, 205, 272, 311, 312, 313, 314

Humanities 230, 235, 250, 251, 252, 253, 272

Political Science 202, 214, 226, 241, 285, 327, 346

Sociology 235, 239

Caribbean & Latin America

African-American Studies 341

Anthropology 243, 244

French 382

History 277, 367, 368

Political Science 250, 251, 252

Puerto Rican Studies 242, 243

Europe

Anthropology 245

French 381

History 331, 332, 333, 334, 340

Humanities 257

Spanish 413

Africa

African-American Studies 230

Anthropology 241

History 275, 276, 375, 376

Political Science 256

Asia

Anthropology 242

History 257, 262, 353, 354

Political Science 257, 258

Social Science Theory & Philosophy:

United States

African-American Studies 285, 331

Anthropology 331

Philosophy 219

Political Science 269, 340

Psychology 332, 333, 336, 390

Sociology 235

Speech 203

Caribbean and Latin America

Anthropology 332

Philosophy 218

Europe

Philosophy 211, 213

Political Science 267, 268

Africa

African-American Studies 342, 343

General

Anthropology 363, 380, 442

African-American Studies 360

Philosophy 351, 352, 353, 354, 355

Political Science 367

Sociology 312

II. LITERATURE, ART, MUSIC, THEATRE

United States Literature

African American Studies 261
 English 350, 352, 353, 355, 356, 392, 395
 World Literature 225, 226

Caribbean and Latin America Literature

African-American Studies 322
 French 206, 334
 Spanish 201, 202, 203, 300, 301, 302, 303, 304, 306
 World Literature 205, 206, 207

African Literature

African-American Studies 220, 221
 French 335

English Literature

English 211, 318, 328, 333, 343, 344, 345, 364, 365

European Literature

English 364, 365
 French 210, 220, 221, 323, 324, 325, 327, 328, 329, 330, 333, 338
 Humanities 204
 World Literature 201, 210, 211, 212
 (Students may choose an Art, Music or Theatre courses regardless of content.)

III. NATURAL SCIENCE AND MATHEMATICS

Students may choose Natural Science or Mathematics (except Mathematics 271) courses regardless of content.

Marketing (B.S.)

HEGIS CODE 0509

Chair: Boadnarine Bharosay, Department of Accounting and Business

Associate Professors: Edwin, Ou, Perry

Assistant Professor: Apfelroth

Lecturer: Brown

Coordinator: Sanford Apfelroth

Department Office: Academic Core, Room 2B06, Telephone 262-2500

The Marketing faculty emphasizes practical experience and an entrepreneurial outlook. The program is designed to provide students with a strong background in business management with special emphasis on marketing practice and strategy. Students are encouraged to work closely with the Marketing faculty and the Office of Career Services to develop career opportunities, internships and information regarding graduate studies.

Major Discipline Requirements (48 Credits) Credits

I. Co-op Requirements (4 Credits)		
Co-op 101	Orientation	1
Co-op 111	Work Experience & Seminar I	3
II. Marketing Major Requirements (35 Credits)		
Accounting 101	Accounting	4
Accounting 102	Accounting II	4

Business 283	Business Law I	3
Business 301	Management Theory and Practice	3
Business 321	Business Finance	3
Economics 102	Elementary Economic Analysis II	3
Economics 220	Introduction to Economic Statistics	3
Marketing 341	Introduction to Marketing	3
Marketing 343	Advertising and Public Relations	3
Marketing 347	Consumer Behavior	3
Marketing 483	Marketing Management	3

III. Nine (9) credits chosen from the following:

Business 349	Small Business Management	3
Marketing 342	Marketing Research	3
Marketing 344	Retail Management	3
Marketing 345	Principles of Selling	3
Marketing 346	International Marketing	3
Marketing 350	Industrial Marketing	3
Marketing 351	Sales Management	3
Marketing 352	Direct Marketing	3
Psychology 356	Psychological Aspects of Marketing	3
Psychology 358	Psychology of Advertising and Marketing Communications	3

All Marketing Majors must take Mathematics 115 and Economics 101 towards fulfillment of General Education or Degree Requirements. At least 15 credits in major discipline requirements must be taken at York College

Mathematics and Computer Studies

Chair: T.C. Wu, Department of Mathematics and Computer Studies

Professors: Coen, Dai, Malkevitch, Mawyer, Strassberg, Wu

Associate Professors: Cooley, D'Alotto, Pritchard, Sunmonu

Assistant Professors: Niedzwecki, Salcedo

Substitute Assistant Professor: Lasser

Lecturers: Bell, Hill

Department Office: Academic Core, Room 2C07, Telephone 262-2535

The Department of Mathematics and Computer Studies offers degree programs in Mathematics (B.A. and B.S.), Computer Science (B.S.), and Information Systems Management (B.S.). The degree programs in Computer Science and Information Systems Management are described under those headings.

The objectives of the Department of Mathematics and Computer Studies are threefold:

To prepare students for professional careers in mathematics, and computer studies;

To satisfy the mathematical needs of students majoring in other disciplines; and

To help all students develop or review basic mathematical skills and understanding.

The Department seeks to achieve these objectives through its course

offerings, and a variety of supplemental learning resources.
Mathematics (B.A. or B.S.)

HEGIS CODE 1701

Students majoring in mathematics may develop breadth and depth in theoretical and applied areas of mathematics, including computer mathematics. They may prepare for careers in teaching, industry, or government. After graduation from York College, the mathematics major may pursue graduate studies toward an advanced degree as a full-time student, or as a part-time student while working in his or her chosen career.

Major Discipline Requirements (36 Credits) Credits

I. Required courses (24 Credits):

*Mathematics 121 or 184	Analytic Geometry and Calculus I	4
Mathematics 122	Analytic Geometry and Calculus II	4
Mathematics 221	Calculus III	4
Mathematics 222	Differential Equations	4
Mathematics 333	Linear Algebra	4
Mathematics 423	Advanced Calculus I	4

**Mathematics 119 is a pre/corequisite for Mathematics 121
 The first four courses listed above should be completed in an uninterrupted sequence. A student who wishes to take other mathematics courses while completing this sequence, should obtain approval of a mathematics advisor.*

II. Mathematics Electives (12 Credits)

All mathematics majors must complete at least three additional advanced mathematics or CS courses, to make a total of at least 36 credits. These courses should be selected in consultation with the mathematics advisor.

The following courses cannot be credited toward fulfillment of the mathematics major requirements: Mathematics 101,102,111,115,119,120,141,150, 190, 271, 272, 302, 303, CS 193,194.

Students interested in pursuing graduate study in Mathematics are advised to take Modern Algebra (Math 332), the second semester of Advanced Calculus (Math 424), Complex Analysis (Math 425), and Topology (Math 426).

Students interested in applied mathematics are advised to take Probability and Statistics I (Math 210), Operations Research (Math 310) or Mathematical Methods for Physical Science (Math 311), and Introduction to Computing (CS172).

III. Mathematics majors interested in computing should take Introduction to Computing (CS 172) as soon as possible. Further information may be obtained by e-mail from infocs@york.cuny.edu

IV. Students interested in Actuarial Mathematics should complete the 24 required credits, plus the following:

Mathematics 210	Probability and Statistics I	4
Mathematics 211	Probability and Statistics II	4
Mathematics 310	Operations Research	4

Also recommended are: CS 172 and Mathematics 241, 321 and 410. The Mathematics Department suggests that Actuarial Mathematics students complete at least two examinations provided by the Society of Actuaries before graduation.

V. Students intending to teach Mathematics at the secondary level must successfully complete the requirements of a major in this discipline. Such students should seek advisement from an advisor in the Mathematics and Computer Studies Department. Mathematics majors in the Teacher Education program are encouraged to choose their mathematics electives from the following: Mathematics 210, 211,225,230, 241, 242, 332, and CS 172.

Design for Mathematics majors planning to apply for New York State Teaching Certification in Mathematics 7-12 (B.S.)

Students interested in a teaching career and New York State certification should file an application form in the Department of Teacher Education. Acceptance to the program is contingent upon: a) Enrollment in the Mathematics major; b) a minimum GPA of 2.75; c) the passing of all CUNY assessment examinations; d) completion of 42-46 credits including the following: Cultural Diversity 210, History 201 or 202 or 204 (American History), Political Science 103 or Economics 101 or 102, and at least one laboratory science.

Education Course Requirements

I. Foundation Courses (10-13 credits) Credits

Education 280	Childhood Adolescent Development for Teachers	3
Education 281	Fieldwork in Educational Environments	1
Education 283	Educational Psychology: Effective Teaching and Learning	3
Philosophy 202	Evolution of Major Ideas and Issues in Education	3
or		
Sociology 202	Evolution of Major Ideas and Issues in Education	3
Academic Computing		
101	Introduction to Microcomputers	0-1
210	Microcomputer Applications in Education	0-1
250	Advanced Microcomputer Applications in Education	0-1

II. Methods Courses (6 credits)

Education 340	Literacy Instruction Inside Middle and Secondary Schools	3
Education 373	Teaching Mathematics in Secondary Schools	3

III. Student Teaching (8 credits)

Education 440	Supervised Student Teaching in a Junior High School	4
Education 441	Supervised Student Teaching in a Senior High School	4

Due to changing requirements for New York certification and anticipated changes in program and course requirements, it is important that you maintain continuous contact with the Department of Teacher Education and your education advisor, located in Room 1D12 (Tel. 718 262-2450).

NOTES: Mathematics 121 and 184 satisfy the General Education Requirement. All mathematics majors must complete 5 credits of any Science General Education Requirements that are acceptable by the respective science disciplines to fulfill their major requirements.

Mathematics majors are strongly urged to develop a secondary strength in another discipline in the physical or social sciences where mathematical methods are used (e.g., physics, psychology, etc.). The range and depth of the secondary

strength should be determined in consultation with the mathematics advisor and an advisor from the other disciplines. Students interested in pursuing a double major in mathematics and physics should see the requirements listed for this double major in the Physics section of the Bulletin.

NOTE: Mathematics courses which do not indicate a specific semester offering are taught regularly. For an exact schedule of proposed offerings for the next two year period, consult the Mathematics and Computer Studies Department.

No student should take more than two mathematics courses in a single semester unless they have completed all of the General Education Requirements.

MINOR IN MATHEMATICS

The minor in Mathematics is intended to encourage non-math majors to take the courses they need in order to prepare for graduate programs in fields such as computer science, finance, and business administration.

Minor Discipline Requirements (16 Credits)

I. Required Courses

Mathematics 122*	
Analytic Geometry and Calculus II	4
Mathematics 333*	
Introduction to Linear Algebra	4

Plus two other 4 credit mathematics courses at the 200-level or higher which are acceptable for the mathematics major 8

Notes: Mathematics 122 has a prerequisite of Math 121 or Math 184 which may be used to satisfy the General Education Requirement. Students whose majors require Math 122 and/or Math 333 must substitute 4 credit mathematics courses at the 200-level or higher which are acceptable for the mathematics major. No course can be used to satisfy more than one requirement.

Medical Technology (B.S.)

HEGIS CODE 1223

Chair: Paul C. Lu, Department of Health Sciences

Professor: Chenouda

Assistant Professor: Zelinsky

Coordinator: Michael Chenouda, Academic Core, Room 1E12

Department Office: Academic Core, Room 1E12, Telephone 262-2720

Medical Technology is the branch of medicine concerned with the performance of laboratory test procedures and analyses used in the diagnosis, treatment, and prognosis of disease, and the maintenance of health. Through the use of modern equipment and techniques, laboratory-trained personnel are able to provide medical data that the physician can use in assessing the clinical condition of the patient, allowing diagnosis to be more easily made and prognoses more readily obtained. Today, with the advent of and the accent on preventive medicine and extended health care delivery systems such as Health Maintenance Organizations (HMO) and Health Service Areas (HSA), the clinical laboratory is playing a greater role in maintaining the health of communities than ever before. The program can also serve as a motivating factor to some students who may seek graduate studies or work in hospital research laboratories.

Eligibility for Admission to the Upper Division and Clinical Portion of the Medical Technology Program:

Students must apply for admission to the upper division and clinical portion of the Medical Technology program. To be eligible for admission, students require:

1. Junior Standing
2. Overall GPA of at least 2.3
3. Successful completion of the following courses:
 - Biology 201, 202
 - Chemistry 101, 102, 230 (or 231), 235 (or 232) and 241
 - Mathematics 121 or 184
 - Physics 103, 105
4. Matriculation at York

Retention in the Medical Technology Program

To be retained in the program, students must:

1. Earn a minimum grade of "C" in each Medical Technology course. *No Medical Technology course may be taken more than twice.*
2. Maintain a GPA of at least 2.0 in Medical Technology courses and overall.
3. Complete all degree requirements within four years of the date of admission to the upper division and clinical portion of the Medical Technology program.

Eligibility for Field Study

To be eligible for field work, students must:

1. Have completed all graduation requirements with the exception of HPMT 457 and HPMT 458.
2. Maintain a GPA of at least 2.0 in Medical Technology courses and overall.
3. Have the written permission of the Medical Technology Coordinator.

Eligible students must apply for field work placement to the Medical Technology Coordinator at least 60 days prior to the start of field work. *Students who fail to register for the internship courses will be denied the credits for the courses.*

Major Discipline Requirements (75-77 Credits) Credits

I. Required Basic Science Courses		(33 Credits)
Biology 201	Principles I	4
Biology 202	Principles II	4
Biology 465	Microbiology	4.5
Biology 466	Immunology	4.5
Chemistry 102	Principles II	5
Chemistry 230 or 231	Organic	3
Chemistry 232 or 235	Organic Lab	2
Chemistry 237	Toxicology	3
Chemistry 241	Instrumental Methods of Analysis	3

II. Required Medical Technology Courses (24 Credits)

HPGC 101	Basic Concepts of Health	2
HPMT 322 HPMT 330	Clinical Chemistry Techniques <i>Human Anatomy and Physiology for</i> Medical Technologists	3 3
HPMT 332	Tissue Techniques	2
HPMT 341	Clinical Immuno-Serology Techniques	1
HPMT 343	Immuno-Hematology and Blood Banking	3
HPMT 351	Clinical Chemistry	3
HPMT 352	Hematology and Coagulation	4
HPMT 353	Medical Parasitology	3

III. Field Study Internship Requirement (18 Credits)

HPMT 457	Clinical Internship	9
HPMT 458	Clinical Internship	9

Non-Field Study (20 Credits)

Ten Credits Required from Group A.
Select at least ten credits from Group B.

A. Chemistry		
Chemistry 233	Organic II	3
Chemistry 234	Organic Lab II	2
Physics 104	Lab II	1
Physics 106	General Physics II	4
B. Biology		
Biology 307	Biostatistics	3
Biology 334	Comparative Physiology	4.5
Biology 344	Molecular & General Genetics	4
Biology 412	Biochemistry	3
HPGC 201	Principles of Epidemiology	3

Suggested courses for free electives to be selected by the student in consultation with the advisor to suit the student's career objective: Mathematics 190, 191; Chemistry 233, 234; HPGC 102, 201; Biology 325, 344, 412, 452; Physics 105, 106.

Students considering graduate studies are advised to take these elective courses: Chemistry 233, 234; Biology 325, 344, 452; Physics 104, 106.

Medical Technology Departments of Laboratories

Affiliation	Clinical Associate
Brookdale Medical Center	Joan Agosta, Lab Manager
Brooklyn Hospital	Lab Manager, Pathology Dept.
Catholic Medical Center	Usha Ruder, M.D., Medical Director/Advisor
Coney Island Hospital	Ann Zero, M.S., (CASCP) Program Director
Elmhurst General Hospital	Veronica Hnery, Lab Manager
Jamaica Hospital	Mr. Edward Graham, Lab Manager

Manhattan Veterans Admin. Hospital	Dr. Tuldik K. Sandhu
Queens Hospital Center	Ms. Senora Edmond
St. Barnabus Hospital	Lab Manager
St. Vincent's Hospital (ASCP)	Educational Coordinator
Wyckoff Heights Hospital	Ms. Deborah Sirica3

Music (B.A.)

HEGIS CODE 1005

Chair: James Como, Department of Fine and Performing Arts

Professor: Ernst

Assistant Professors: Adams, Faulk

Sr. College Laboratory Technician: Dixon

Coordinator: David Ernst, Academic Core, Room 1A12c

Department Office: Academic Core, Room 1A12, Telephone 262-2400

The curriculum in music is designed to meet the needs of students preparing for careers in jazz, commercial music, theory, and music education. Students electing to concentrate in jazz, commercial music, or theory should consult the Coordinator of the Music Discipline for full particulars.

All music majors must register for a performance ensemble each semester for 1 or 2 credits. Not more than a maximum of 8 credits of performance courses may be counted toward graduation.

All entering music students must take Music 141. All music majors will be required to pass a piano proficiency test by the end of their sophomore year.

Concentrations of Study in Music

Concentrations are based on appropriate course selection in consultation with a Faculty advisor.

Concentration in theory: It is recommended that students who concentrate in theory composition choose their music electives from the following courses: Music 225, 291, 326, 420, 425-426, and 429. In addition, students are urged to select their non-music electives from those courses that will have special relevance to music theory and composition. Some suggested courses are: Mathematics 111 and 190, and Philosophy 352.

Concentration in commercial music: It is recommended that students who concentrate in commercial music choose their music electives from the following courses: Music 146, 225, 246, 253, 326, 425-426, and 461. In addition, students are urged to select their non-music electives from those courses that will have special relevance to commercial music.

Concentration in jazz studies: Students who elect to concentrate in jazz studies are advised to select among the following music electives: Music 146, 246, 250, 252, 253, 420, and 461. Students are also encouraged to take such non-music courses as: Afro-American Studies 101, 245, and 354; Fine Arts 398; History 110, 201, and 272; Political Science 101; and Sociology 101.

The Computer Music studio is a state-of-the-art facility equipped with microcomputers, digital synthesizers, MIDI interfaces, sound-sampling systems, and multi-track tape recorders. The studio is made available to students enrolled in the following music courses: 225, 326, 420, 425-426, and to those undertaking independent research in this area of theory-composition.

Major Discipline Requirements (39 Credits)		Credits
Music 210*	Intermediate Musicianship I	2
Music 211	Intermediate Musicianship II	2
Music 220	Harmony and Counterpoint I	3
Music 221	Harmony and Counterpoint II	3
Music 291	Keyboard Harmony	1
Music 310	Advanced Musicianship I	2
Music 311	Advanced Musicianship II	2
Music 320	Harmony and Counterpoint III	3
Music 321	Harmony and Counterpoint IV	3
Music 324	Twentieth-Century Techniques	3
Music 350	History of Music I	3
Music 351	History of Music II	3
Music 420	Instrumentation	3
Music 422	Conducting	3
Music 450	History of Music III	3

* Placement is through examination. If exempt, student takes music elective. Remedial work is offered.

The Music Department expects all music majors to participate in a performance group every semester as an elective or for no credit. Students have the opportunity to choose among Chorus, Jazz Workshop and Jazz Improvisation.

NOTE: Majors in Music must fulfill their General Education Requirement in a discipline other than their major.

Minor in Music (15 Credits)

Required Courses (9 Credits)	Credits
Music 110 - Basic Theory I	3
Music 111 - Basic Theory II	3
Music 210 - Intermediate Musicianship I and Music 141 - Class Instruction in Piano I	2 1
or	
Music 144 - Class Instruction in Woodwind Instruments	1
Choose 2 courses from the following: (6 Credits)	
Music 324 - Twentieth-Century Techniques	3
Music 350 - History of Music I	3
Music 351 - History of Music II	3

Music 420 - Instrumentation	3
Music 425 - Composition I	3
Music 450 - History of Music II	3
Music 461 - Jazz Style and Techniques	3

Natural Science

Chair: Martin S. Spergel

Astronomy Coordinator: Timothy Paglione

Biology Coordinator: Cheryl Adams

Biotechnology Coordinator: Louis F. Levinger

Chemistry Coordinator: T.B.A.

Geology Coordinator: T.B.A.

Physics Coordinator: Duli Jain

Pre-Engineering Coordinator: Samuel R. Borenstein

Science Education Coordinator: Jack M. Schlein

Department Office: Academic Core 3F01,

Telephone 718 262 2650

The Natural Sciences is a multi-disciplinary and multi-program Department of the College containing the disciplines of **Biology, Chemistry, Geology, and Physics**. The Department offers degree programs in these disciplines as well in **Biotechnology**. The Department also supports a minor and study programs in **Astronomy, Pre-Engineering, Natural Sciences and Science Education**. The individual alphabetical listings of these disciplines should be consulted for details about their degree and minor programs.

The **mission** of the Department of Natural Sciences is to provide for its students the specialized education which will allow them to contribute to the well being of society as either informed citizens or as specialists. The Department of Natural Sciences accomplishes its mission by providing for both the general academic community and its specialized community of science, health professions and pre-engineering majors. Interrelated and complementary opportunities are offered for: (i) liberal education in science; (ii) professional career science education; (iii) research and independent inquiry; (iv) internships in professional environments; and (v) public and community service.

The Department, through its community of scholars working in an atmosphere of institutional support and concern, provides educational opportunities by the actions of: excellence in teaching, professional advertisement and counseling, development and supporting innovative curricula, and conducting independent research and study.

The goals of the actions of the Department are the fulfillment of the mission of the Department and College by:

1. the encouragement and support of the intellectual inquiries and the completion of professional requirements of the undergraduates;
2. the advancement of the state of the sciences, bringing to the College the recognition and grant support such research endeavors will provide for the student and College;
3. the continuous review and upgrading of the science curricula to provide for the disadvantaged, the gifted, and the traditional student in a changing world;

4. the development of new career opportunities in the sciences;
5. the upgrading of the science curricula in the high schools, for the disadvantaged, the gifted, and the traditional student, thereby producing a general improvement of science education in the educational community; and
6. the improvement of the quality of life through the monitoring and investigation of our physical environment.

For information, consult the **Department of Natural Sciences, Academic Core, Room 3F01.**

Nursing (B.S.)

HEGIS CODE 1203

Chair: Paul C. Lu, Department of Health Sciences

Director: Reuphenia James

Associate Professor: Ekpo

Assistant Professors: Murray

Department Office: Academic Core Room 1E12, Telephone 262-2054

The Baccalaureate Nursing Program is designed exclusively for Students who are Registered Nurses (RN) (graduates of diploma and associate degree nursing programs). The Program will prepare a generalist professional nurse to deliver professional nursing care in a variety of settings, with a focus on the primary level of intervention (prevention of illness/disease and maintenance of health).

The purpose of the Program is to:

1. prepare a beginning *professional* practitioner of nursing;
2. provide a foundation for graduate study in nursing

Admission Criteria

Students must meet the requirements for admission to York College, and the standards of proficiency in the basic skills areas of reading, writing and mathematics established by the College. (*See catalog, Freshman Skills Assessment Program*). To be eligible for admission to the RN/Baccalaureate Nursing Program at the junior year level, students must meet the following criteria:

1. 65 required credits from lower division nursing curriculum;
2. a minimum grade point average (GPA) of 2.5. (*While a college GPA of 2.0 is the minimum requirement for consideration of an application, it does not guarantee admission into the nursing program*);
3. a grade of "C" or better in every required lower division course from the nursing curriculum;
4. current RN licensure in New York State (students who have not yet received their RN license may take general education courses);
5. Professional Liability (Malpractice) Insurance;
6. CPR Certification (American Heart Association).

The admission requirements apply to diploma and associate degree nursing graduates. Transfer course credits must have been earned at accredited institutions of higher learning. General education course credit may also be earned by satisfactory achievement on special examinations (i.e., CPEP, CLEP, and in-house examinations) by official evaluation of the Registrar's Office in consultation with the academic departments (see Index, "SPECIAL EXAMINATIONS").

The curriculum is designed to accommodate students who have

been accepted to the program with differing academic and professional backgrounds. Candidates for admission to the Baccalaureate Nursing Program must meet all prerequisite criteria before acceptance into the program. Students who are completing academic course requirements **may** be admitted to the Nursing Program on a provisional basis. Proof of successful completion of the courses must be submitted by the end of the Fall semester before final admission to the nursing major, or they will not be permitted to continue in the Program.

The nursing curriculum incorporates the requirements of York College, as well as those identified as essential to the achievement of the purposes and objectives of the Nursing Program. The requirements for the Bachelor of Science in Nursing is 120 credits. Graduates of CUNY A.A.S. programs in Nursing will be required to complete only 60 credits at York College for the Bachelor of Science in Nursing degree. We admit all qualified students regardless of age, ethnicity, race, or sex.

Accreditation

1. The Nursing Program is accredited by the National League for Nursing Accrediting Commission, 350 Hudson Street, New York, NY 10014, (212) 989-9393.
2. The Bachelor of Science in Nursing is conferred when the Nursing Major requirements and the York College General Education Requirements are fulfilled.

Lower Division Prerequisites:

The following courses must be successfully completed for students to be eligible for screening into the Nursing major.

1. Completion of all prerequisite lower division requirement courses:
Biology 234, 235, 265 and 382
Chemistry 105*
English Composition 125
English 200
Mathematics 111
Nursing 200++
Nursing 201, 203
Philosophy 102, or 103 or 121
Psychology 102, 215 and 216
Anthropology 101 or Sociology 101
Speech 101
2. Students must apply for screening by March 1st pending successful completion of required courses during that Spring semester for Fall admission.
3. York College transcript or York College evaluation of transfer credits for students transferring into York College prior to Spring Screening.
4. Applicants must be matriculated at York College.
5. Cultural Diversity 101 and Cultural Diversity 102 or 202 or 203 or 210, and the validation examinations for Maternal/Child Nursing (Nursing 201***), Adult Nursing (Nursing 311***), and Psychiatric/Mental Health Nursing (Nursing 312***), must be completed prior to screening for progression to the Nursing major.
6. All remedial courses must be completed prior to admission to the Nursing program.

Chemistry 105 fulfills the distribution requirement for Natural Sciences.

**** Credit by examination only for RNs. These examinations are not required of CUNY and SUNY/A.A.S. Nursing programs.*

Screening Procedures for Nursing Program

1. Candidates must apply by April 1st for the subsequent Fall admission to the junior year.
2. Prospective candidates should contact the Nursing Office for advisement as soon as they are admitted to York College.
3. Applications may be obtained from the Nursing Office for screening by the Program's Committee on Admissions, Retention and Graduation.
4. Applicants are not considered accepted into the Nursing Program until they receive a letter of acceptance from the Director of the Nursing Program.
5. Acceptance is based on the following criteria:
 - a. Successful completion of required courses (a grade of "C" or better).
 - b. A grade point average of 2.5 or better.
 - c. Current RN licensure.
 - d. Current Professional Liability Insurance.
 - e. Evidence of CPR certification.
 - f. Current physical examination and immunization record.
 - g. Successful completion of the pharmacology examination (grade of 80 or higher).

Retention Policy

1. Students in the Nursing Program are expected to adhere to York College standards for Academic Standing and Student Discipline, as outlined in the college bulletin.
2. Students are expected to adhere to health standards set forth by the College and affiliating clinical agencies.
3. Students must achieve a grade of "C" or better in all required courses (Nursing and General Education).
4. Students may repeat a nursing course no more than once; however, a student who fails more than two different nursing courses will not be able to continue in the Nursing Program.
5. Students who fail any component of a nursing course (e.g. theory, college laboratory, clinical laboratory), will be required to repeat the entire course.

Re-Entry Policy

1. Following two consecutive semesters of non-attendance, students may apply for re-entry into the Nursing Program, and will be considered by the program's Admissions, Retention, and Graduation Committee, and the Director of the Nursing Department. The program does not guarantee re-entry into the program. Students are required to submit a written request to the Director of the Nursing Program.

Students are required to:

- a. meet current York College requirements;
- b. meet current curriculum requirements;
- c. have a current cumulative GPA of 2.0 or better.

Graduation

Candidates from the Nursing Program are required to meet the following criteria:

1. Successful completion of all required courses (see current bulletin for B.S.N. degree requirements).
2. Attainment of an overall GPA of "C" (2.0) in addition to an overall "C" or better in the major discipline.

Suggested Plan of Full-time Study

Fall — Lower Junior		Credits
Nursing 301	Values in Transition: Perspectives of Professional Nursing	5
Nursing 311***	Professional Nurse-Client Intersystem (Adult Nursing)	5
Biology 336	Pathophysiology	3
Writing 303	Research & Writing for Professional Programs	3
Subtotal		16

Spring — Upper Junior		Credits
Nursing 312***	Professional Nurse-Client Intersystem III (Psychiatric/Mental Health Nursing)	5
Nursing 314	Management and Leadership in Professional Nurse-Client Intersystem I	3
Nursing 315	Professional Nurse-Family/Community Intersystem I	6
Subtotal		14

Fall — Lower Senior		Credits
Nursing 405	Professional Nurse-Family & Community Intersystem II: Disruption in Health Patterns	6
Nursing 406	Professional Nurse-Societal Client Intersystem Emergent Evolution	3
Foreign Language**		4
Physical Education 150	Fitness for Living	2
Subtotal		16

Spring — Upper Senior		Credits
Nursing 407	Professional Nurse-Client Intersystem: Practicum	3
Humanities Electives (Recommend Fine & Performing Arts – Fine Arts 104 or 150 or 152 or 155 or 264 or 381 or Music 101 or 110 or 225 or 250 or 253)		3
Foreign Language		4
Subtotal		10
Subtotal – Upper Division		55
Grand Total		120

*** Credit by validation examination only for RNs. These examinations are not required of graduates of CUNY A.A.S. Nursing programs.

** Placement by Foreign Language Department.

Lower Division Prerequisites†

The following courses must be successfully completed to be eligible for screening for Nursing Major:

Courses		Credits
Biology	Anatomy & Physiology I & II – Biology 234 & 235	8
	Microbiology – Biology 265	3
	Human Nutrition – Biology 382	2
Chemistry	General College Chemistry – Chemistry 105	5
English	English Composition – English 125	4
	Literature – English 200	3
Mathematics	Probability & Statistics (College Level) – Mathematics 111	4
Nursing	++Nursing 200 Prof. Nursing Process	2
	***Nursing 201 Prof. Nurse-Client Intersystem	5
Nursing 203	Health Assessment	5
Philosophy	Logic – Philosophy 102 or 103 or 121	3
Psychology	Intro. to Psychology – Psychology 102	3
	Dev. Psychology I & II – Psychology 215 & 216	6
Social Sciences	Intro to Culture Anthropology – Anthropology 101	3
	or Intro. to Sociology – Sociology 101	3
Speech	Oral Communication – Speech 101	3
Note:	Cultural Diversity 101 and Cultural Diversity 201 or 202 or 203 or 210 must be completed prior to screening for progression to the nursing major	6
TOTAL		65

† Graduates of CUNY A.A.S. Nursing programs will be required to complete only 60 credits at York College toward the Bachelor of Science in Nursing.

** Credit by validation examination only for RNs. These examinations are not required of graduates of CUNY A.A.S. Nursing programs.*

Credit by validation examination may be earned by the Regents College Examination: Baccalaureate Level Credits

*** a. Maternal and Child Nursing (Nursing 201)	5
*** b. Adult Nursing (Nursing 311)	5
*** c. Psychiatric/Mental Health Nursing (Nursing 312)	5

For information pertaining to the Regents College Examination, contact:

Regents College
7 Columbia Circle
Albany, NY12203
(518) 464-8500

Credit by validation examinations in nursing may also be earned by NLN examinations scheduled in the Fall semester at York College. These examinations are not required of CUNY and SUNY graduates of the A.A.S. programs in Nursing.

Major Discipline Requirements (39 Credits)	Credits
Nursing 301 Values in Transition: Perspectives of	

	Professional Nursing	5
Nursing 311***	Professional Nurse-Client Intersystem II (Adult Nursing)	5
Nursing 312***	Professional Nurse-Client Intersystem III (Psychiatric/Mental Health Nursing)	5
Nursing 314	Management and Leadership in Professional Nurse-Client Intersystems	3
Nursing 315	Professional Nurse-Family/Community Intersystem I	6
Nursing 405	Professional Nurse-Family & Community Intersystem II: Disruption in Health Patterns	6
Nursing 406	Professional Nurse-Societal Client Intersystems: Emergent Evolution	3
Nursing 407	Professional Nurse-Client Intersystem: Practicum	3
Biology 336	Pathophysiology	3

Other Requirements (31 Credits)

Biology 234	Anatomy and Physiology I	4
Biology 235	Anatomy and Physiology II	4
Biology 265	Clinical Microbiology	3
Biology 382	Human Nutrition	2
Psychology 215	Human Development I: Infancy/Development	3
Psychology 216	Human Development II: Adolescence/Maturity	3
Nursing 200++	Professional Nursing Process/Pharmacology	2
Nursing 201***	Professional Nurse-Client Intersystem I	6
Nursing 203	Health Assessment and Wellness Promotion	5

****Credit by validation examination only for RNs. These examinations are not required of graduates of CUNY A.A.S. Nursing programs.*

++ Challenge Examination

Nursing Program Clinical Associates

Affiliation	Clinical Associate
Beth Israel Medical Center	Lucinda Pierre, RN, MS
Brookdale Hospital	Rosmond A. Riviere, RN, MS
Elmhurst Hospital	Julita R. Salva, RN, MS Surrinder Suri, RN, MS
Flushing Hospital & Medical Center	Hillia L. Lokenauth, RN, BS
Jamaica Hospital	Stephanie K. Brogdon, RN, MSN Cathleen Ketterick, RN Sheila Van, RN, MS Patricia Walegir, RN, MS, MBA
Long Island Jewish Medical Center	Carol A. Klimchak, RN, MS

St. John's Catholic Medical Center Tom Keogh, RN, MS

Visiting Nurse Service of New York Sheila Ann Boylan, RN, BS

Occupational Therapy (B.S.)

HEGIS CODE 1208

Chair: Paul Lu, Department of Health Sciences

Associate Professors: Faust, Kaplan, Krauss, Tewfik

Assistant Professor: Auriemma

Coordinator: Andrea Krauss, Academic Core, Room 1E12

Department Office: Academic Core, Room 1E12, Telephone 262-2720

Career Description

Occupational Therapy is the art and science of directing people's participation in selected tasks which: restore, reinforce, and enhance performance; facilitate learning those skills and functions essential for adaptation and productivity; diminish or correct pathology, and promote and maintain health. In the term occupational therapy, reference to occupation is in the context of people's goal-directed use of time, energy, interest and attention. The therapist's fundamental concern is the development and maintenance, throughout the life span, of the capacity to perform with satisfaction to self and others of those tasks and roles essential to productive living and to the mastery of self and environment.

The registered occupational therapist assesses or evaluates, treats and makes referrals for clients with various types of dysfunction, also prevents dysfunction and promotes health.

The registered occupational therapist provides professional services in general to special hospitals, clinics, rehabilitation centers, special schools, public health and other community agencies such as nursing homes, shelters, half-way homes, neighborhood health centers, colleges and universities and in private practice.

Advanced standing admission to the college for the Spring semester is restricted to students with less than 40 accumulated credits.

Curriculum

System theory is utilized as the basis for curriculum design and involves the following principles applied to human behavior:

1. Patterns of human behavior emerge in a self-organizing, non-linear fashion.

2. It is the cooperation and interaction among (maturational and environmental) components that generate new behavioral patterns.

3. The theoretical base underlying the Occupational Therapy curriculum identifies principles of change and examines the effect of intervention on the human system and other complex systems. This involves identifying how cooperation among the components of a system creates new patterns of behavior in a self-organizing manner.

A person is self-directed, developing through the interaction and integration of biological, psychological and sociological human systems. When an individual is not able to accomplish behaviors and objectives, the occupational therapist, working with an individual, uses the O.T. process to promote change toward improved function. The occupational therapist collaborates with a person to identify the individual's goals and life roles in the context of future performance.

The occupational therapist uses purposeful activity to promote the development of skills which enhance performance of roles in a variety of contexts. Purposeful activity integrates the multiple facets of the human system, acting as a catalyst to form new behaviors.

Thus, the curriculum incorporates systems theory with the following organizing principles:

1. Problems in the structure, function and integration of systems causes illness.

2. The occupational therapy process, acting as a catalyst, facilitates wellness.

3. The wellness to illness to wellness continuum is based on the structure, function and integration of systems.

The curriculum starts with the foundations of Occupational Therapy and continues with the Occupational Therapy processes involved in evaluation, collaboration and intervention. The student has opportunities to practice the learned content in four stages of fieldwork experience. Applicants are encouraged to volunteer or make visits to an Occupational Therapy Service prior to screening.

The Occupational Therapy Program Faculty are committed to the education of professional occupational therapists who can provide effective Occupational Therapy Services in a variety of urban settings.

Accreditation and Credentials

1. The Occupational Therapy Program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA), located at 4720 Montgomery Lane, P. O. Box 31220, Bethesda, MD 20824-1220. AOTA's phone number is (301) 652-AOTA.

2. The Bachelor of Science in Occupational Therapy is conferred when the Occupational Therapy Program requirements are fulfilled, including successful completion of all Occupational Therapy Major Discipline requirements, in addition to York College's General Education Requirements for the Bachelor of Science Degree.

3. Certification: Upon completion of all requirements, the graduate is permitted to sit for the Certification Examination of the National Board for Certification in Occupational Therapy, Inc.

4. Licensure: Upon completion of all requirements, the graduate is permitted to apply to New York State for licensure as a Registered Occupational Therapist.

Eligibility for Screening into Upper Level Occupational Therapy Program

1. Completion of 50 college credits and be a matriculated student at York college.

2. Pass all Skills Tests

3. Overall grade point average of 2.5.

4. Completion of all college and pre-major course requirements.

Biology 201 and 202

Chemistry 101

HPGC 101 and 102

One College-level Statistics Course

Psychology 215

Psychology 216

Psychology 338

Sociology 101

Writing 303

5. Admission to York College during the Fall semester for screening the following spring.
6. Students may apply for screening, pending successful completion of required courses during that Spring semester.
7. York College transcript **or** York College evaluation of transfer credits for students transferring into York College by the end of the Fall semester, prior to Spring Screening.

Note: All General Education Requirements must be registered for or completed by the end of the Spring semester in which the student applies for screening. In addition, all applicants must pass all skills assessment tests.

Screening Procedures for Occupational Therapy Program

1. Students who are deemed eligible (*see Eligibility for Screening into Upper Level Occupational Therapy Program above*) will be mailed applications for screening by the Occupational Therapy Program.
2. Prospective applicants should contact the Occupational Therapy Program for advisement as early as possible.
3. Screening takes place during the Spring semester for Fall acceptance into the program.
4. York College transcript, **or** York College evaluation of transfer credits for students transferring into York College.

Acceptance into the Occupational Therapy Program

1. Approval by the Health Sciences Evaluation and Selection Committee. This committee bases its recommendation on the following screening criteria:
 - a. Health Sciences Application and three specific letters of reference.
 - b. Interview during screening process.
 - c. Practical examination.
 - d. Grade point average of 2.5 and appropriate courses.

Applicants are not considered accepted into the program until they receive a letter of acceptance from the Coordinator of the Occupational Therapy Program.

Additional Expenses specific to the Occupational Therapy Program*
Books, supplies, equipment, travel, professional liability and memberships, field trips and other fees.

	1st Year	2nd Year	Fieldwork
Approximate Totals	\$800.00	\$900.00	\$900.00

* See cost of education section.

Financial Aid

In addition to the sources of financial aid available to all college students, there are some sources available specifically for students enrolled in Baccalaureate Occupational Therapy Programs. Information is available at the Occupational Therapy Office.

Plans of Study

1. Full-time sequence

The Occupational Therapy Program takes 4.5 to 5 years to complete. The program consists of 60 specialized occupational therapy credits, spread over six semesters. This includes eight months of fieldwork experience, five days a week, nine to five daily. Students will NOT be able to work during fieldwork experience.

Fall — Lower Junior		Credits
HPOT 312	Functions of the Human Extremities	2
HPOT 313	Fundamentals of O.T.	3
HPOT 315	Gross Anatomy for Human Function	3
HPOT 321	Use of Media in O.T. I	3
HPOT 322	Activities For Maturation and Growth	3
		14

Spring — Upper Junior		Credits
HPOT 314	Integrations of System Theory	2
HPOT 316	Physiological Basis of Human Health	3
HPOT 323	Collaboration in O.T.	3
HPOT 324	O.T. Foundational Techniques I	3
HPOT 325	Use of Media in O.T. II	3
		14

NOTE: Students must successfully complete all junior level HPOT courses prior to admittance to senior level courses.

Fall — Lower Senior Credits		
HPOT 426	O.T. Assessment Techniques	3
HPOT 430*	Problems of the Psycho-social System	4
HPOT 432	Problems of the Neurological System	3
HPOT 437*	Problems of the Biological System	4

Spring — Upper Senior		Credits
HPOT 4270.T.	Skills and Technniques for Current Practice	3
HPOT 436	O.T. Process:Peidatric Intervention	3
HPOT 438*	O.T. Process: Intervention for Psychological Dysfunction	4
HPOT 439*	O.T. Process: Intervention for Psychological Dysfunction	4
		14

*Occupational Therapy Fieldwork Experience I, co-requisite for these courses.

Students must fulfill all requirements for graduation prior to Fieldwork Experience II.

Fieldwork Experience II		Credits
HPOT 441	Fieldwork Experience Biological	

	Perspectives	1
HPOT 442	Fieldwork Experience Psychosocial Perspectives	1
HPOT 443	Collaboration in the Community	1

2. Part-time Sequence

1st Fall: First Year: HPOT 313, 321, 322

1st Spring: HPOT 323, 324

2nd Fall: Second Year: HPOT 312, 315

2nd Spring: HPOT 314, 325, 316

3rd Fall: Third Year: HPOT 432

3rd Spring: HPOT 436

4th Fall: Fourth Year: HPOT 426, 430, 437

4th Spring: HPOT 427, 438, 439

3. Special Plans of Study by faculty approval only.

Promotion and Retention

A. Promotion occurs with completion of the course of study approved by the student's occupational therapy faculty advisor. Completion of courses in specified sequence, good academic standing in the College and in the Occupational Therapy Program is required for graduation.

B. Course of study for students who fail an occupational Therapy course will follow the predetermined failure sequence and requires approval of Occupational Therapy faculty. Retention is based on good academic standing, matriculation at York College and continuing review by the Health Sciences Evaluation and Selection Committee.

(1) Maintenance of good academic standing.

The lowest acceptable grade in occupational therapy courses is "C" (2.0). See Bulletin listing on Academic Standing. Students who receive a grade below "C" in an occupational therapy course must repeat the course in order to maintain progress toward a degree and to be eligible to take the certification examination of the American Occupational Therapy Certification Board. It is necessary to pass this examination to be licensed as a Registered Occupational Therapist in the State of New York.

(2) Course Failure: Students who twice fail to achieve an acceptable earned grade in the same occupational therapy course will not be retained in the program. Students who fail to maintain a 2.0 GPA in discipline courses will not be retained in the program.

(3) Continuing Review by the Health Sciences Evaluation and Selection Committee.

A student may be disqualified from the program by the committee if he or she gives cause for reevaluation due to any infraction(s) of the Rules of Student Conduct on Campus. This includes plagiarism, the use of drugs, a breach of Occupational Therapy Ethics or other activities mentioned under Student Discipline.

(4) Length of Time in the Program

As the profession is in transition to entry level Master's Degree requirements, students entering the Baccalaureate program must successfully complete the didactic portion of this program by Spring 2005 to enable them to complete Fieldwork II and to sit for the certification exam by September 2006.

The senior year must be completed within two (2) academic years. Students exceeding this time frame will be dismissed from the program.

IMPORTANT NOTE: All OT students must complete Level II Fieldwork within 24 months following completion of academic preparation.

NOTE: In the event of non-retention because of either, (2),(3) or (4) the student has the right of appeal to the Health Professions Evaluation and Selection Committee. The student must come before the Committee for continuation in the Program.

Major Discipline Requirements (60 Credits)

HPOT 312	Function of the Human Extremities	2
HPOT 313	Fundamentals of Occupational Therapy	3
HPOT 314	Integrations of System Theory	2
HPOT 315	Gross Anatomy for Human Function	3
HPOT 316	Physiological Basis of Human Health	3
HPOT 321	Use of Media in O.T. I	3
HPOT 322	Activities for Maturation and Growth	3
HPOT 323	Collaboration in Occupational Therapy	3
HPOT 324	O. T. Foundational Techniques	3
HPOT 325	Use of Media in O.T. II	3
HPOT 426	O.T. Assessment Techniques	3
HPOT 427	O.T. Skills and Techniques for Current Practice	3
HPOT 430	Problems of the Psychosocial System	4
HPOT 432	Problems of the Neurological System	3
HPOT 436	O.T. Process: Pediatric Intervention	3
HPOT 437	Problems of the Biological System	4
HPOT 438	O.T. Process: Intervention for Physical Dysfunction	4
HPOT 439	O.T. Process: Intervention for Physical Dysfunction	4
HPOT 441	Field Work Experience in Occupational THERAPY: BIOLOGICAL PERSPECTIVES	1
HPOT 442	Field Work Experience in Occupational Therapy: Psychological Perspectives	1
HPOT 443	Collaboration in the Community	1

* Students who enroll in a semester for HPOT 441 or 442 or 443 with either 441 or 442 will be considered as registered for a full-time program. They may, therefore, apply for financial aid. For further information, please consult our Financial Aid Office.

Departments of Occupational Therapy

Affiliation

Beth Israel Medical Center
 Beth Israel Medical Center/Psych
 Brooklyn Hospital Center
 Brooklyn VA Medical Center/Psych
 Brunswick Hospital
 Center for Rehabilitation
 Coler/Goldwater Memorial Hospital
 Columbia Presbyterian Hospital
 Coney Island Hospital
 Creedmoor Psychiatric Center
 Englewood Hospital & Medical Center
 Harlem Hospital/Rehab.
 Holliswood Hospital
 Jack Weiler Hospital
 Jacobi Medical Center
 Jamaica Hospital
 Jewish Health & Hospital
 Kingsbrook Medical Center
 Long Island Jewish/Hillside Medical Center
 Lutheran Medical Center
 Manhattan Psychiatric Center
 Mercy Medical Center
 Metropolitan Hospital Center
 Montefiore Hospital
 Mount Sinai Hospital/Psych
 Northshore University Hospital (Manhasset) (Glen Cove)
 New York State Psychiatric Institute
 North Central Bronx Hospital
 Peninsula Hospital
 Queens Hospital Center
 Roosevelt Hospital Center/St. Lukes Hospital
 Roosevelt Hospital Center/St. Lukes Hospital/Psych
 South Oaks Hospital/Psych
 St. Barnabas
 St. Charles Rehab Hospital
 St. Vincent's Medical Center
 St. Vincent's Medical Center/Psych

Clinical Associate

Vanessa Kahn, O.T.R.
 Mary Petti, O.T.R.
 Phyllis Weitzman, O.T.R.
 Emily Weinstein, O.T.R.
 Marge Wagner, O.T.R.
 Debbie Dilello, O.T.R.
 Laurel Jeffery, O.T.R.
 Roberta Schroeder, O.T.R.
 Lisa Bosse, O.T.R.
 Curtisse Waddy, O.T.R.
 Eleanor Sparrow, O.T.R.
 Marie Labbe, O.T.R.
 Debbie Zaslowsky, O.T.R.
 Manisha Joshi, O.T.R.
 Stephen Leonard, O.T.R.
 Jane Ryan, O.T.R.
 Linda Pflug, O.T.R.
 James Guobadia, O.T.R.
 Sharon Faust, O.T.R.
 Helen Burke, O.T.R.
 Colette Noel, O.T.R.
 Lisa Murano, O.T.R.
 Francis Gary Blount, O.T.R.
 Rhonda Fisher, O.T.R.
 Marian Gross, O.T.R.
 Joan Matthews, O.T.R.
 Kristen Witowski, O.T.R.
 Elaine Mullen, O.T.R.
 Linda Delerme, O.T.R.
 Karen Perreault, O.T.R.
 Bernadita Supagay, O.T.R.
 Audrey Ehrman, O.T.R.
 Pat Precin, O.T.R.
 Fran Babiss, O.T.R.
 Joann Marquez, O.T.R.
 Lorraine Gorman, O.T.R.
 Stephanie Uva, O.T.R.
 Linda Silber, O.T.R.

Transitions of Long Island Debbie Levine, O.T.R.
 Veterans Administration Hospital (Brooklyn) Josephine Stein, O.T.R.
 Village Nursing Home Linda Gutterman, O.T.R.

Philosophy (B.A.)

HEGIS CODE 1509

Chair: Howard Ruttenberg, Department of History and Philosophy
Professors: Hoffman, Ruttenberg
Department Office: Academic Core, Room 3D08, Telephone 262-2635

The philosophy program seeks first and foremost to show all students, as an essential element of the liberating objective of general education, the unexamined assumptions in all their studies, and to introduce them to the tradition of exploring and criticizing those assumptions. Philosophy courses explore basic ideas in natural sciences, behavioral and social sciences, the arts, and religion. In learning the methods of the philosophical tradition, students will develop their powers of logical thought and coherent expression, which will assist them in other studies, in the pursuit of careers, and in the exercise of the human rights of citizenship and of full participation in the arts and sciences of contemporary cultural life. Majors will learn to engage in sustained analyzes of a variety of issues, preparing them for graduate studies in philosophy, professional schools, etc.

Major Discipline Requirements (30 Credits)		Credits
Philosophy 211	Ancient Philosophy	3
Philosophy 213	Modern Philosophy	3
Philosophy Electives	(8 courses 200-level or above, including other disciplines' courses with predominantly philosophical materials, such as English 364 and Political Science 267-269)	24

Majors planning to attend graduate school are advised to study French or German. Majors planning to attend graduate school in Philosophy are advised to include courses in logic and philosophy of science in their programs. They should also undertake Independent Study projects during the fall semester of the senior year, resulting in papers suitable for inclusion in their graduate school applications.

Design for a Minor in Philosophy

The minor in Philosophy enables students to deepen their understanding of one field of study and the assumptions underlying all fields of study, thereby enriching their general education and contributing to the goal of integration of studies in an awareness of a coherent whole.

Minor Discipline Requirements (12 Credits)		Credits
Three Philosophy courses at the 200-level or higher, including at least one of the following:		
Philosophy 211	Ancient Philosophy	3
Philosophy 213	Modern Philosophy	3

One related course at the 200-level or higher in any discipline, including Philosophy, to be approved by a Philosophy advisor 3

Physical Education

Chair: Linda R. Barley, Department of Health & Physical Education and Gerontological Studies and Services

Professors: Bailin, Barley, Molina

Associate Professors: Ajuluchukwu, Brodsky

Assistant Professors: Agin, Butcher, Marshall, Murray, Werber-Zion
College Laboratory Technician: Holloman

Coordinator: Werber-Zion

Department Office: Health and Physical Education Building, Room P201, Telephone 262-5100

Students interested in majoring in Physical Education can choose two (2) distinctly different concentrations: Physical Education for those planning to teach (K-12) and Movement Science (non-teaching).

The Instructional Program

The instructional program of Physical Education skills courses is designed to encourage the participation of the individual in regular physical activity throughout his or her life. Physical activity is viewed as an essential part of the life of the liberally educated person. Physiological and psycho-social benefits accrue to the participant. Courses emphasize individualized skill development in a broad range of lifetime sport activities that are fun and educational.

All Physical Education courses are coeducational.

Movement Science (B.S.)

HEGIS CODE 0835

The Movement Science major provides an opportunity to specialize in areas of recreation, athletic coaching, athletic training, cardiovascular fitness, athletic administration, and physical education for people with special needs.

A specialization in cardiovascular fitness prepares the student for fitness leadership jobs in business and industrial fields and in private agencies such as the YMCA, YMHA, and cardiac exercise programs. It also gives the student a broad knowledge base to pursue graduate study.

A specialization in recreation offers the student opportunities for careers in community recreation; in Federal, State, and City agencies; and in private organizations, such as nursing homes. Activity specialists coach community and school teams and work in Park Departments. Recreation directors organize and administer recreation programs for groups of people, and for communities.

A major in Movement Science can prepare the student for work as a perceptual-motor therapist and/or a physical educator for the physically or emotionally challenged, or with the elderly.

Movement Science majors choose which discipline they will study to complete the Interdisciplinary Requirement. Newest among the options is the Athletic Training option (Physical Education Athletic Training - PEAT). The department is currently engaged in the Self Study phase which leads to national certification by the National Athletic Trainer Association (NATA). Students are encouraged to

seek academic advisement in the Department as early as possible.

Major Discipline Requirements (45-48 Credits)

I. Skills courses selected from any 100-200 level course and/or from Physical Education 311, 312, 313		6
II. Physical Education foundations <i>(selected from courses listed)</i>		21
Physical Education 310	Perceptual-Motor Activities for Children	2
Physical Education 315	Basic Movement	2
Physical Education 322	Recreation, Organization and Leadership	3
Physical Education 350	Principles and Foundations of Physical Education	2
Physical Education 353	Physical Activity for Special Populations	2
Physical Education 354	Sport and Society	2
Physical Education 355	Psychology of Sport and Motor Performance	2
Physical Education 356	The Acquisition of Sport and Movement-Skills	2
Physical Education 358	Physiology of Exercise	3
Physical Education 360	Theory and Techniques of Coaching	2
Physical Education 362	Kinesiology	3
Physical Education 363	Measurement and Evaluation in Health and Physical Education	3
Physical Education 452	Cardiovascular Fitness	3
Physical Education	Field Work 471-474	2
Health Education 488	Health Promotion in the Workplace	3
Physical Education 495	Independent Study in the Scientific Foundations of Physical Education	2

III. Interdisciplinary Requirements 18-21 Credits

(18 credits in one of the following categories 200 level or above)

1. Natural Science (Biology, Chemistry, Physics)
2. Psychology
3. Social Science (Sociology, Anthropology, Social Work)
4. Business and Economics
5. Health Education
6. Athletic Training (PEAT)

For Physical Education Majors Planning to Apply for New York State Teaching Certification in Physical Education K-12 (B.S.) HEGIS CODE 0835

Students planning to seek New York State teaching certification in Physical Education K-12 are required to file an application for admission form in the Teacher Education Program during their sophomore year.

1. Major Discipline Requirements (41 credits)

PE 315	Basic Movement	2
PE 350	Principles and Foundations of Physical Education	2
PE 353	Physical Activity for Special Populations	2
PE 354	Sport and Society	2
PE 355	Psychology of Sport and Motor Performance	2
PE 356	Acquisition of Sport and Movement Skills	2
PE 358	Physiology of Exercise	3
PE 362	Kinesiology	3
PE 363	Measurement and Evaluation in Health and Physical Education	3
PE 461	Professional Problems in Physical Education	2
<i>and/or</i>		
PE 360	Theory and Techniques of Coaching	2
PE 482	Organization, Administration and Supervision of Physical Education	3

2. Physical Education Skills courses (100-200 Level) 15

Team Sports (PE 151, 158, 162, 163, 164, 165)	4
Gymnastics (PE 156 or 157)	1
Independent Study (PE 291-294)	1
Dance (PE 173, 176, 183, 278)	1
Combatives (PE 153, 155, 159)	1
Individual (PE 141, 167, 171, 174, 181, 271)	2
Outdoor (PE 170, 177, 178, 279, 280)	2
Aquatics (PE 182, 282, 284, 285, 287)	2

3. Education Certification Requirements: (31-34 credits)

I. Foundation Courses:

Academic Computing 101 - Introduction to Microcomputers I	0-1
Academic Computing 210 - Microcomputer Applications in Education	0-1
Academic Computing 250 - Advance Microcomputer Applications in Education	0-1
Education 280 - Child and Adolescent Development For Teachers	3
Education 281- Field Work in Education Environments	1
Education 283 - Effective Teaching and Learning	3
Mathematics 271 - Mathematics for Elementary Teachers	4
Sociology/Philosophy 202 - Evolution of Major Ideas and Issues in Education	3

II. Methods Courses:

Education 327 - Curriculum & Methods in Elementary School Physical Education	3
Education 328 - Curriculum & Methods in Secondary School Physical Education	3
Education 340 - Literacy Instruction Inside Middle & Secondary Schools	3

III. Student Teaching:

Education 448 - Supervised Student Teaching, Physical Education (grades K-6)	4
Education 449 - Supervised Student Teaching, Physical Education (grades 7-12)	4

IV. Other Requirements :

At least three months prior to the expected graduation date, the major must present to the department evidence of certification that will be current at the time of graduation for the following

1. First Aid and Safety
2. Basic Cardiac Life Support

Physics (B.S.)

HEGIS CODE 1902

Chair: Martin S. Spergel, Department of Natural Sciences
Professors: Borenstein, Jain, Levin, Spergel
Assistant Professor: Paglione
Senior College Laboratory Technician: Gomez
Coordinator: Duli C. Jain, Academic Core, Room 2F09, Telephone 262-2580
Department Office: Academic Core, Room 3F01, Telephone 262-2650

The physics discipline, in its desire to serve both the general academic community and the community of science and engineering majors, has the following interrelated and complementary objectives:

1. Liberal Education of the Students;
2. Professional Career Education;
3. Research and Independent Inquiry; and
4. Public and Community Service.

Through a choice of courses and major, physics students can prepare for graduate study in astronomy, physics, professional schools of medicine, dentistry, and engineering, or for career placement upon attainment of the baccalaureate degree. The physics program prepares students in allied fields of science with the background to grasp the underlying physical principles of their disciplines and to fulfill professional requirements. The physics discipline prepares pre-engineering students for transfer into the professional levels of baccalaureate engineering schools.

In public and community service, some of the discipline's specific aims are:

1. To upgrade the physics curriculum in the high schools.

2. To improve the high school physics instruction of disadvantaged students.
3. To make quality education in the sciences accessible to high-ability female, minority and disadvantaged students, and
4. To improve the quality of life through the monitoring and investigation of our physical environment.

Students who desire to major in one of the following programs offered by the physics faculty should register with the Physics Coordinator as soon as possible, preferably before the end of the freshman year. Each registered student will be assigned a faculty advisor.

Students with surnames:	Advisors:	Offices:
A-D	Dr. Jain	2F09a
E-K	Dr. Borenstein	2E14
L-R	Dr. Levin	2F10
S-Z	Dr. Paglione	3F01

Students intending to transfer into the Computer Science programs at City College or The College of Staten Island should follow the pre-engineering program outlined below.

Major Discipline Requirements* (60 Credits)

Chemistry 102	Chemical Principles II	5
Mathematics 122	Analytic Geometry and Calculus II	4
Mathematics 221	Calculus III	4
Mathematics 222	Differential Equations	4
Mathematics 311	Mathematical Methods for Physical Science	4
Physics 151	University Physics I	5
Physics 152	University Physics II	5
Physics 211	Mechanics I	4
Physics 241	Modern Physics	3
Physics 301	Electronics Laboratory	2
Physics 321	Electricity and Magnetism I	4
Physics 351	Statistical Physics	3
Physics 431	Waves and Optics	4
Physics	Electives	9

* All Physics Majors must take Mathematics 121 or 184 and Chemistry 101 to fulfill General Education Requirements.

Major in Physics and Mathematics

Physics Majors who wish to follow the *Double Major in Physics and Mathematics* will take the following courses, with advisement (65 credits): Chemistry 102, Mathematics 122, 221, 222, 311, 333, 423, plus a four credit Mathematics elective; Physics 152, 211, 241, 321, 351, 383, 431, 441 plus a three credit Physics elective.

Medical Physics Option

Physics majors desiring the *Medical Physics Option* will follow the physics major course sequence and elect six credits of medical physics in the senior year. The medical physics electives are offered in conjunction with an affiliated medical center.

Pre-Medical/Pre-Dental Physics Major

Physics Majors who wish to follow the *Pre-Medical* or *Pre-Dental Physics* Sequence should complete Biology 201 and 202 (or the equivalent) and Organic Chemistry and follow the Physics Major sequence with the exception of the following courses: Mathematics 311, Physics 301, 441, and Physics Elective.

B.S. with Honors in Physics

Eligibility: A 300-level Physics course and a 3.0 average in all Physics courses. Approval by the Faculty of the Physics Discipline.

Requirements for Graduation with Honors:

1. Successful completion of the Physics Major Discipline requirements and a 3.0 average in all Physics courses.
2. Successful completion of 6 credits of 400-level courses in the Physics Discipline consisting of independent research under the supervision of a faculty member and successful presentation of a thesis to the faculty members of the Physics Discipline.
3. Certification by the Faculty of the Physics Discipline.

Pre-Engineering

Coordinator: Samuel R. Borenstein, Academic Core, Room 2E14

Programs of pre-engineering study have been developed in cooperation with the School of Engineering at City College and with the Engineering Science Faculty at The College of Staten Island. These programs will meet the requirements of the first two years of study at either of these units of the City University. Appropriate courses are also available at York to enable a student to transfer to branches of the State University or to private engineering schools.

It is the responsibility of each student to meet with his/her department advisor, once per semester and prior to transfer.

There are four avenues of engineering education at the Baccalaureate level:

E.E. — Electrical Engineering, including electronics, power transmission, etc.

M.E. — Mechanical Engineering, including the design of structures, machinery, etc.

C.E. — Civil Engineering, including design of roads, highway structures, etc.

Ch.E. — Chemical Engineering, which is largely devoted to commercial production of materials.

The entering student may not be sure which area of engineering is most appealing. This is not a problem, since there are few differences in the courses taken during the first two years.

The sample two-year program provides, for each engineering specialty, a proper sequence of courses. Our experience has been that students who apply themselves diligently to these courses will succeed in later engineering courses.

Suggested Program Sequence **Credits**

I. Fall	
Mathematics 121	4
Physics 151	5
English 125*	4
Physical Ed.**	1
Liberal Arts Elective***	3
II. Spring	
Mathematics 122	4
Physics 152	5
Chemistry 101	5
Liberal Arts Elective***	3
Summer	
Graphics ¹	1
III. Fall	
Mathematics 221	4
Physics 241	3
Chemistry 102	5
Computer Studies 172	4
Speech 101	3
IV. Spring	
Mathematics 222	4
Mathematics 333	4
Physics 211	4
Physical Ed.**	1
Geology 110, 207	4
Liberal Arts Electives***	3
Physics 341	3
Mathematics 333	4

* See section headed *Requirements of the Baccalaureate Degree*.

** For transfer to CUNY, only activities courses (tennis, swimming, etc.) are acceptable.

***For students transferring to CCNY, Liberal Arts electives must be chosen as follows: Two courses in American History (History 201-202), Philosophy 102, 104, Humanities 201, Economics, Political Science, Sociology, etc.

In the planning of the Pre-Engineering program sequences, the following guidelines must be observed:

- a. Skill courses (such as, accounting, statistics, photography, drawing, musical instruments technique, non-literature language courses) will not be transferable.
- b. Students may not enroll on a pass/fail basis.
- c. CCNY does not "accept" elementary foreign language courses.

¹ Not required for chemical and electrical engineering.

² Not required for mechanical and electrical engineering.

³ Required only for electrical engineering.

⁴ Required for chemical engineering; optional for others.

⁵ Required only for civil engineering.

⁶ Electrical engineers require a linear algebra course containing Boolean algebra.

Political Science (B.A.)

HEGIS CODE 2207

Chair: Deborah Majerowitz, Department of Political Science and Psychology

Professor: Ostholm-Hinnau

Associate Professors: Boris, Dyer

Coordinator: Shirley Ostholm-Hinnau, Academic Core, Room 4D06

Department Office: Academic Core, Room 4D06, Telephone 262-2680

Acknowledging the diversity within our college community and the various directions in which the study of Political Science can lead, the discipline seeks to assure a correspondingly flexible program of instruction. The faculty's overriding concern is to help students develop the capacity to evaluate critically their own and other political systems and to relate classroom experience effectively to urgent civic and social issues. In this context, the overall curriculum is designed to promote both a theoretical and practical understanding of the interplay among social classes, values, political power and conflict; the processes of decision making and the state; and factors that affect social justice and political adjustments to changing conditions globally as well as nationally. In addition to these concepts the faculty is committed to the reinforcement of skills such as critical thinking, writing and computer literacy.

CAREER OPPORTUNITIES

The political science program prepares students for graduate study or law school, and for careers in local, state or national government, education, journalism, law, international affairs, campaign management and for staff work with political parties, interest groups, labor organizations, non-profit and research organizations. Political Science is also a liberal art and an appropriate major for students who are uncertain of their career interests.

POLITICAL SCIENCE CURRICULUM

In addition to courses in American government and politics, the program offers a broad array of courses in political theory, public administration, prelaw, comparative government, international relations and area studies. To major in political science, students must take a minimum of 30 credits in political science, of which 18 are required. For the remainder of the credits students are encouraged to consult with a faculty adviser to assist them in selecting a relevant concentration of elective courses which will advance their interests and career goals. Besides traditional classes, the department offers advanced work for juniors and seniors in a variety of formats including seminars and internships at the local, state and national levels.

THE MAJOR IN POLITICAL SCIENCE

Major Discipline requirements (30 Credits)

I. Required Courses:

Political Science 103- Politics and Government in

the United States	3
Political Science 202 - Comparative Politics	3
Political Science 241 - Basic Factors in International Politics	3
Political Science 285 - Urban Government in United States	3

II. One course chosen from the following:

Political Science 267 - Classical Political Theory I: Plato to Machiavelli	3
Political Science 268 - Political Theory II: Machiavelli to Marx	3
Political Science 269 - American Political Thought	3

III. One course chosen from the following:

Political Science 340 - American Capitalism: Political and Social Aspects	3
Political Science 367 - Contemporary Political Theory	3

IV. Elective Political Science courses* 12

*may include a maximum of 4 credits from internship or independent study courses. Must include a 300 or 400 level course.

MINORS IN POLITICAL SCIENCE

For students in other majors who desire a background in government and politics the program offers four minors in political science. Interested students are urged to consult with political science faculty regarding the appropriate minor for them.

MINOR IN POLITICAL SCIENCE (15 credits)

Required Courses (6 credits)

Political Science 103* Politics and Government in the United States	3
Political Science 202 Comparative Politics	3

Choose one (3 credits)

Political Science 241 Basic Factors in International Politics	3
Political Science 285 Urban Government in the United States	3

Choose one (3 credits)

Political Science 267 Classical Political Theory I: Plato to Machiavelli	3
Political Science 268 Political Theory II: Machiavelli to Marx	3
Political Science 269 American Political Thought	3

Choose one (3 credits)

Political Science 269 American Capitalism: Political and Social Aspects	3
Political Science 367 Contemporary Political Theory	3

* This course may be used to fill the General Education Requirement **or** the minor requirement.

**MINOR IN PUBLIC ADMINISTRATION
REQUIRED COURSES (15 Credits)**

Political Science 103* - Politics and Government in the United States	3
Political Science 228 - Public Administration in the Political Setting	3
Political Science 285 - Urban Government in United States	3
Political Science 329- Public Administration: Management Processes	3
Political Science 330 - Public Policy Making	3
Political Science 453 - Seminar in Global Change	3

Note - Students will be required to take five (5) of the six (6) courses listed for a minor in Public Administration

*This course may be used to fill the general education requirement, or the minor requirement.

**MINOR IN LABOR STUDIES WITHIN POLITICAL SCIENCE
REQUIRED COURSES (15 Credits)**

I. Demography and Social Strata (3crs)

Political Science 214 - Racial and Ethnic Politics	3
Sociology 235 - Ethnicity	3
History 274 - The Immigrant in America	3
African American Studies 285 - The Urbanization of the American Black	3

II. Socio-Political Context of the Work Place: Office and Factory (3crs)

Political Science 214 - Racial and Ethnic Politics	3
Political Science 285 - Urban Government in the United States	3
Sociology 238 - Industrial Sociology	3
Sociology 239 - Sociology of Work	3
African American Studies 331 - Institutional Racism	3
History 273 - The American Worker	3

III. Theories of the Working Class and Trade Unionism (3crs)

Political Science 340 - American Capitalism: Political and Social Aspects	3
Political Science 367 - Contemporary Political Theory	3
Economics 361 - Economics of Trade Unions and Collective Bargaining in the US	3
History 333 - Nineteenth Century Europe	3

IV. American Labor and American Business (6crs)

Political Science 311-312 - Adv. Topics in Poli Sci: American Labor and Capital	3
Political Science 340 - American Capitalism: Political and Social Aspects	3
Political Science 367 - Contemporary Political Theory	3
Economics 360 - Labor Economics	3

African American Studies 354 - The Role of Blacks in the American Economy	3
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MINOR IN PRE-LAW STUDIES WITHIN POLITICAL SCIENCE REQUIRED COURSES (15-16 Credits)

I. Required Courses

Political Science 226 - U.S. Supreme Court	3
Political Science 275 - Introduction to Law	4
Political Science 305 or 306 - Selected Legal Topics	3
Philosophy 103* - Introduction to Philosophy	3

II. Additional Required Course (choose one)

Philosophy 121 - Beginning Deductive Logic	3
Philosophy 356 - Philosophy of Law	3
Political Science 310 - Legal Research	2
Political Science 322 - The Courts and Public Policy	3

Pre-Medical or Pre-Dental Programs

The York College Pre-Med Advisory Committee provides advisement, counseling and aid with the application process.

Chair of the Advisory Committee: Jack Schlein, Room 4E03e, Telephone: 262-2716.

Students planning to attend a medical or dental school upon completion of undergraduate studies must choose a major while at York College. The major may be in any subject area, provided the following courses, which constitute the most frequently listed minimum requirements, are completed.

Biology – 1 year (Biology 201 and 202)
English – 1 year College Level (English 125 plus one other course)
Chemistry – 1 year (Chemistry 101, 102)
Mathematics – 1 year (preferably including Calculus)
Organic Chemistry – 1 year (Chemistry 231-232, 233-234)
Physics – 1 year (Physics 151 and 152)

Psychology (B.A.)

HEGIS CODE 2001

Chair: Deborah Majerovitz, Department of Political Science and Psychology

Associate Professors: Chirico, Majerovitz, Seitz, Stevenson, Villegas

Assistant Professors: Flynn, Morgan

Coordinator: Donna Chirico, Academic Core, Room 4D06

Department Office: Academic Core, Room 4D06, Telephone 262-2680

Course Offerings

In creating course offerings, interdisciplinary minors, and programs of study in psychology, our mission is to provide comprehensive academic training that will prepare students for graduate training and/or careers in psychology while maintaining curricula flexibility to meet the needs of students with disparate interests and goals. The curriculum is designed to meet the needs of a diverse student body and it aims to foster personal and professional growth, competence in the psychological bases of scientific research, and community service. Emphasis is given to students' understanding of issues of gender, ethnicity, culture, and socioeconomic class in psychological theory, research, and practice. Students planning to major in psychology must register with the department by the beginning of the junior year. It is recommended that new majors see a faculty advisor in the department as early as possible in their college career to expedite program planning and course selection. Students are encouraged to select elective courses in the major that reflect their interests and/or preparation for graduate and professional training.

REQUIRED COURSES (36-37 Credits)

1. Required Psychology Courses (15 credits)

Psychology 215	Human Development I – Birth through Middle Childhood	3
Psychology 326	Statistical Methods in Psychology	3
Psychology 330	Introduction to Research Methods in Psychology	3
Psychology 334	Personality	3
Psychology 401	History of Psychology	3

2. Students must choose 1 course each from A, B, and C (9 credits)

A.	Psychology 319: Human Cognition Laboratory or Psychology 321: Psychology of Learning Laboratory	3 3
B.	Psychology 332: Social Psychology or Psychology 338: Abnormal Psychology	3 3
C.	Psychology 313: Sensation and Perception or Psychology 362: Physiological Psychology	3 3

3. Three additional Psychology Courses 9 – 10

MINOR DESIGN IN GENERAL PSYCHOLOGY

The Psychology Minor is designed to meet the needs of students who are majoring in other disciplines and who want to enhance their education with additional knowledge about human thought and behavior. Students will work with a faculty advisor in Psychology to design a program of study that fits their career goals and complements their major field of study.

REQUIRED COURSES (15 Credits)

Psychology 102 Introductory Psychology	3
Four additional courses in Psychology	12

(Note: At least 2 of these courses must be at the 300-level or higher.)

Minor Design in Political Science/Cross-Cultural Studies for Psychology

Required Courses		(15 credits)
Anthropology 442	Culture and Personality	3
Political Science 214	Racial and Ethnic Politics	3
Psychology 332	Social Psychology	3
Psychology 333	Black Psychology	3
Psychology 336	Psychology of Women	3

Minor Design in Cognitive Neuroscience

Required Courses		(15 credits)
Biology 334	Comparative Physiology	3
Philosophy 241	Philosophical Psychology	3
Psychology 370	Psychology of Consciousness	3
or		
Psychology 319	Cognitive Psychology	3
Psychology 362	Physiological Psychology	3
Psychology 490	Independent Study and Experimental Research	3

Puerto Rican Studies

For information, consult the **Department of Foreign Languages, Academic Core, Room 3C08.**

Chair: Edvige Coleman

Puerto Rican Studies intends to provide students with a better understanding of the Puerto Rican and Caribbean cultures, and is directed to those students interested in serving the Puerto Rican Community in New York City.

In conjunction with their major disciplines, students will find that a Puerto Rican Studies concentration offers more flexibility in seeking careers in teaching, social work, journalism, and the health sciences, as well as working with minority groups, community development and bilingual programs. Others may be able to pursue further area specialization in graduate school programs in Latin American Studies, business administration and the social sciences.

The Area of Concentration in Puerto Rican Studies consists of 21 credits: 9 required credits and 12 elective credits. Upon successful completion of the requirements of the baccalaureate degree and the area concentration, the student will be awarded a Citation of Achievement in Puerto Rican Studies.

Required Courses	Credits
One Spanish language or literature course (excluding Spanish 304)	3
Two courses chosen from the following:	6
Puerto Rican Studies 241, 242, 243, Spanish 304, Anthropology 249, Political Science 251	
Elective Course:	
Four courses to be chosen from the following:	12

Anthropology 243, 244, 249, 442
Economics 331
Fine Arts 395
History 367, 368
Humanities 272
Political Science 214, 250, 251, 252
Sociology 235
Spanish 201, 202, 203, 304, 413
Any course not taken in the required courses listed above.

Design for a Minor in Puerto Rican Studies

The Puerto Rican Studies minor intends to provide students with a better understanding of the Puerto Rican and Caribbean cultures, and is directed to those students interested in serving the Puerto Rican community locally and nationally.

Minor Discipline Requirements (15 credits)**I. Required Courses** (9 credits):

Puerto Rican Studies 241	Puerto Ricans in New York	3
Puerto Rican Studies 242	Puerto Rican Society/Culture I	3
Spanish language or literature: one course above the 105 level		3

II. Choose two courses from the following list: (6 credits)

Anthropology 243	Anthropology of the Caribbean	3
Anthropology 244	Anthropology of Latin America	3
Anthropology 249	Anthropology of Puerto Rico	3
Fine Arts 395	Latin American Art	3
History 367	Colonial Latin America	3
History 368	Latin America since 1825	3
Humanities 272	The Latino Experience in the U.S.	3
Political Science 250	Latin American Politics	3
Political Science 251	Puerto Rican Politics	3
Political Science 252	Cuban Politics	3
Cultural Diversity 201*	Culture/Societies of the World: Africa, Latin America and the Caribbean	3
Spanish 201	Hispanic-American Literature from its Origins through Modernismo	3
Spanish 202	Hispanic-American Literature after Modernismo	3
Spanish 203	Hispanic-American Short Story	3
Spanish 304	Puerto Rican Literature	3
Spanish 332	The Contemporary Hispanic-American Novel	3

* Cannot be used to fulfill General Education and Minor Requirements. Courses chosen to fulfill these minor requirements cannot be used to fulfill General Education or Major requirements.

Social Work (B.S.)

HEGIS CODE 2104

Chair: Vicki Ashton, Department of Social Sciences
Professor: Rosenthal
Associate Professors: Ashton, Peterson
Assistant Professors: Acker, Letteney
Director: Gila Acker
Department Office: Academic Core, Room 3A11, Telephone 262-2605

The Social Work Program, accredited by the Council on Social Work Education, prepares students for the beginning level of professional social work practice and for graduate school. The curriculum provides students with a solid liberal arts foundation and a generalist social work education, including professionally supervised training in agencies.

Two admission procedures are required in order to advance to the upper division (SCWK 360 and above) and to the fieldwork portion of the Social Work Program: admission to the Social Work Program; and admission to Social Work Field Education. Students also must satisfy retention criteria.

Admission to the Social Work Program

Students must apply for admission to the Social Work Program. The Program admits applicants each semester. The deadline for applications (available in 3A11) is posted in the Social Sciences wing. The criteria for admission are as follows:

1. Matriculation at York College with a major in Social Work
2. Completion of 61 or more credits
3. Successful performance in CUNY Skills Tests
4. A cumulative GPA of 2.50 or better
5. A grade of "C" or better for all social work courses
6. A completed application form
7. Participation in a Group Admission Interview and possibly an individual interview
8. Adherence to the National Association of Social Workers (NASW) Code of Ethics and to the York College Code of Conduct
9. Successful completion of the following courses:

Academic Computing 101	Anthropology 101
Biology 110	English 125
Health Education 312	Political Science 103
Psychology 102, 215, 216	Sociology 101
Social Work 101, 203, 293,300	

10. A letter of acceptance into the Social Work Program from the Director of the Social Work Program.

Retention in the Social Work Program

The criteria for retention in the Social Work Program are:

1. A grade of "C" or better in each Social Work course. Students who earn an unacceptable grade in a Social Work course have one chance to repeat the course and earn an acceptable grade. Faculty permission is required to repeat Social Work 410 or 492.
2. Maintenance of a cumulative GPA of 2.50 or better. (In order to graduate, Social Work majors must have a GPA of 2.50 or better).
3. Adherence to the National Association of Social Workers (NASW) Code of Ethics and to the York College Code of Conduct.

Failure to meet any one of the criterion listed above may be grounds for the student's dismissal by faculty.

Admission to Social Work Field Education

Field Education comprises SCWK 410 and SCWK 492. Students must apply for admission to Social Work Field Education. Admission to Social Work Field Education is a prerequisite for SCWK 410 and successful completion of SCWK 410 is a prerequisite for SCWK 492.

The Program admits applicants each semester. The deadline for applications (available in 3A11) is posted in the Social Sciences wing. Criteria for admission to Field Education are:

1. Admission to the Social Work Program
2. A cumulative York College GPA of 2.50 or better
3. A grade of "C" or better for all social work courses
4. Successful completion of 94 or more credits by the end of the semester in which the student applies
5. A completed application form
6. Successful completion of all courses required for admission to the Social Work Program and successful completion of the following courses:

Social Work 350, 360, 370 Writing 303

Two courses from the following:

Afro-American Studies 341 Anthropology 243
 Psychology 333 Sociology 235, 333

** Nineteen credits of support courses can be used to fulfill General Education Requirements.*

Twenty-four credits in Required Social Work Courses (Group III) must be taken at York College.

60 credits in Liberal Arts are required.

Sociology (B.A.)

HEGIS CODE 2208

Chair: Vicki Ashton, Department of Social Sciences
Professor: Odenyo
Assistant Professor: Moss
Coordinator: Amos Odenyo
Department Office: Academic Core, Room 3A11, Telephone 262-2605

Sociology is concerned with understanding human societies. As a discipline, sociology goes beyond common sense and popular wisdom to expose our biases and to develop a less simplistic view of the world we usually take for granted. As a major, sociology provides a foundation for careers in a variety of public and private areas, especially in the fields of community and service organization.

The sociology program provides a balance between theoretical and applied interests of students and provides a number of opportunities for individualized independent work and advanced research courses.

The curriculum is designed to meet not only the needs of students electing to major in the discipline, but also those of students in career-oriented programs such as education, social work, business administration, and the health professions. Students interested in the sociology curriculum as a source of elective credits in support of specific career interests are encouraged to seek out members of the sociology faculty for advisement.

Major Discipline Requirements (30 Credits)

Sociology 101	Introductory Sociology	3
Sociology 201*	Sociological Analysis	3
Sociology 220*	Social Research I	3
Sociology 312**	Sociological Theory	3

Sociology 321	Social Research II	3
Five electives in Sociology numbered 200 or above, including at least three at the 300 / 400 level, exclusive of the research practicum		15

* *Sociology 201 and 220 should be taken early in the major sequence.*

** *Sociology 312 should be taken late in the major sequence after completion of other major requirements.*

CERTIFICATE PROGRAM IN SURVEY RESEARCH

The Survey Research certificate program is a subset of the major in Sociology leading to the award of the B.A. degree. Students may use these courses in satisfying their major requirements, where relevant, as well as applying them for the Certificate.

This certificate program is intended for individuals who would like to explore careers in the survey and marketing research industry. Students may be non-degree, community and senior college undergraduates or graduates, or individuals currently working in survey research who seek a more formal educational credential. It will provide career and promotion opportunities. Students should see an advisor before beginning this program and registering for classes.

REQUIRED COURSES (17 CREDITS) CREDITS

Sociology 220* – Social Research I	3
Sociology 321* – Social Research II	3
Sociology 226 – Survey Research (<i>Direct Interview & Mail Surveys</i>)	4
Sociology 227 – Survey Research II (<i>Telephone & Internet Surveys</i>)	4
Sociology 290 – Field Work and Research in Surveys	3

* Equivalent courses taken in other disciplines or at other institutions may be eligible for credit.

It is recommended that students take one or two of the following courses that may be of interest, however, these courses are not required for the certificate: Political Science 332 – Public Opinion and Political Behavior; Psychology 358 – Psychology of Advertising & Marketing Communications

Spanish (B.A.)

HEGIS CODE 1105

Chair: Edvige Coleman, Department of Foreign Languages

Professors: Ballantyne, De Filippis, Waldman

Associate Professors: Gutierrez, Rivera-Valdes

Instructor: Drago

Coordinator: Franklin Gutierrez

Department Office: Academic Core, Room 3C08, Telephone 262-2430.

The Spanish Discipline offers a two-track sequence of three courses at the intermediate level, one for native speakers of Spanish and one for non-native speakers of Spanish. The goal of this sequence (Spanish 103, 104 and 105) is to provide students with the instruction and practice they require in order to be successful in Spanish 106 and the advanced courses, where native speakers and non-native speakers will study together. Placement in the appropriate course level and track will

be determined by the Discipline through its placement procedures.

The Spanish major has been designed to reflect recent literary scholarship. Our program prepares students for graduate school as well and for various careers. Students may prepare for careers in Childhood Education 1-6; Childhood education 1-6, with Bilingual Extension; and Adolescence Education 7-12. Spanish majors can also design a program that will allow them to pursue careers in public service and business.

Major Discipline Requirements (36 Credits)

I. Foundation Courses		(24 credits)
Spanish 200	Introduction to Literary Theory and Analysis	3
Spanish 201	Hispanic-American Literature from its Origins through Modernismo	3
or		
Spanish 202	Hispanic-American Literature after Modernismo	3
Spanish 208	Advanced Grammar	3
Spanish 209	Composition and Style	3
Spanish 210	Spanish Linguistics	3
Spanish 221	Spanish Literature to 1700	3
or		
Spanish 222	Spanish Literature 1700-Present	3
Spanish 351	Cervantes	3
Spanish 413	Hispanic Civilization	3
II. Elective Courses		(12 credits)
Electives on the 200 Level or above		6
Electives on the 300/400 Level		6

Departmental Honors

Students with a 3.0 average in Spanish courses in the major may qualify for departmental honors by completing 6 additional credits on the 400 level and completing a substantial individual research project in a designated seminar.

Spanish/PreK-6 Elementary Certification/ Bilingual Education Extension (B.A.)

HEGIS CODE 0802

Course Requirements (39-42 Credits)

I. Foundation Courses		(11 credits)
Education 280	Child & Adolescent Development	3
Education 281	Fieldwork in Education	1
Sociology 202	Major Ideas & Issues in Education	3
Education 206	Effective Teaching and Learning	3
Mathematics 271	Math for Elementary School Teachers	4
Academic Computing 101	Introduction to	

Microcomputers I	0-1
Academic Computing 210 Microcomputer Applications	0-1
Academic Advanced Microcomputer Computing 250 Applications	0-1

II. Methods Courses

Education 269 Bilingual Teaching Principles/Practices	3
Education 312 Teaching Languages Arts/Reading I	3
Education 317 Teaching Science	2
Education 318 Teaching Health and Physical Ed.	2
Education 323 Teaching Mathematics	2
Education 333 Teaching Social Studies	2
Education 345 Teaching ESL	2
Education 351 Teaching Language Arts	2

III. Student Teaching (6 credits)

Education 431 Supervised Student Teaching (PreK-3)	3
Education 432 Supervised Student Teaching (4-6)	3

Teaching Certification in Spanish 7-12

HEGIS CODE 1105.01

Education Requirements (23½ credits)

I. Foundation Courses (10-13 credits)

Education 280 Child & Adolescent Development	3
Education 281 Fieldwork in Education	1
Philosophy/ Sociology 202 Major Ideas & Issues in Education	3
Education 206 Effective Teaching & Learning	3
Academic Computing 101 Introduction to Microcomputers I	0-1
Academic Computing 210 Microcomputer Applications	0-1
Academic Computing 250 Advanced Microcomputer Applications	0-1

II. Methods Courses (6 credits)

Education 340 Literacy Instruction Inside Middle & Secondary Classroom	3
Education 371 Teaching Spanish in Secondary Schools	3

III. Student Teaching (8 credits)

Education 440 Supervised Teaching of Spanish in Junior High Schools	4
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Education 441 Supervised Teaching of Spanish in High Schools	4
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Design for a Minor in Spanish

The Spanish Minor is designed to provide students with a better understanding of Spanish language and culture. The minor is directed at those students who wish to further develop their language proficiency and can be structured to complement the individual's professional and personal goals.

Course Requirements (15 credits)

Required Courses (6 credits)

Spanish 200	Introduction to Literary Theory and Analysis	3
Spanish 209	Composition and Style	3

Choose three from the following list of recommended courses: (9 credits)

Spanish 201	Hispanic-American Literature from its Origin through Modernismo	3
Spanish 202	Hispanic-American Literature after Modernismo	3
Spanish 203	Hispanic-American Short Story	3
Spanish 208	Advanced Grammar	3
Spanish 210	Spanish Linguistics	3
Spanish 221	Masterpieces of Spanish Literature to 1700	3
Spanish 222	Masterpieces of Spanish Literature 1700-Present	3
Spanish 240	Translation I	3
Spanish 241	Translation II	3
Spanish 242	Commercial Spanish	3
World Literature 212*	Masterpieces of Spanish Literature in Translation	3
or		
Humanities 272*	The Latino Experience in the U.S.	3

* Only one of these courses may be taken.

Science Education

Chair: Martin S. Spergel, Natural Sciences

Professors: Schlein, Spergel

Assistant Professor: Paglione

Coordinator: Jack M. Schlein

Department Office: Academic Core, Room 3F01, Telephone 718 262-2650

The Science Education program, in the Natural Science Department, is a multi dimensional program. Its undergraduate and graduate courses function to complement the Education Certification Programs. It houses the Secondary Education Certification programs in Biology, Chemistry and Geology listed alphabetically and detailed elsewhere in this Catalogue. The Science Education program provides and coordinates teacher training programs in the Sciences for primary, intermediate and high schools teachers and para-professionals. The Science Education program houses State and Federal fund grant programs designed to improve the science content and science teaching in primary, intermediate and high schools through Summer and After School-hour Institutes and programs.

Speech Communication and Theatre Arts (B.A.)

HEGIS CODE 1506

Chair: James Como, Department of Fine and Performing Arts

Professors: Como, Nickolich

Associate Professor: Schilling

Assistant Professor: Amrhein

Speech Communication Coordinator: James Como

Theatre Arts Coordinator: Barbara Nickolich

Department Office: Academic Core, Room 1A12, Telephone 262-2400

Speech Communication and Theatre Arts majors who take Speech Communication 101 as part of the College General Education requirement may not apply those credits to the major.

Major Discipline Requirements (36 Credits)

I. Required Speech Communication and Theatre Arts Courses

Speech Communication 101 - Oral Communication in Contemporary Society	3
Speech Communication 160 - Fundamentals of Oral Interpretation: Prose and Poetry or Theatre Arts 211 - Basic Acting	3
Speech Communication 182 - Voice and Diction	3
Speech Communication 203 - Ethics & the Freedom of Speech	3
Speech Communication 490 - Independent Research or Theatre Arts 490 - Independent Research	3

II. Speech Communication and Theatre Arts Electives 15

III. Six credits from related disciplines chosen in consultation with major advisor.

NOTE: A student may, but need not, concentrate in Rhetoric and Communication or in Theatre. Majors in Speech Communication/Theatre Arts must fulfill their General Education Requirement in a discipline other than their major.

NOTE: Speech Communication and Theatre Arts majors who take Speech Communication 101 as part of the College General Education requirement may not apply those credits to the major.

MINOR IN THEATRE ARTS

The Theatre Arts minor is designed to encourage students who have an interest in acting and/or theatre production to pursue their interest while majoring in other areas. A Theatre Arts Minor offers more flexibility in career searches and is considered an asset by graduate schools. All students proposing to minor in Theatre Arts should apply in the Departmental Office, where they will be assigned an advisor. Courses chosen for the minor may not be used for general education requirement.

Minor Design for Theatre Arts (15 credits)

I. Required Courses (6 credits)

Theatre Arts 110 - Introduction to the Theatre	3
Theatre Arts 215 - Studies in Theatre Practices I	3

II. Choose 3 courses from the following:

Theatre Arts 112 - Voice and Stage Movement for Actors I	3
Theatre Arts 114 - Stagecraft I	3
Theatre Arts 115 - Stagecraft II	3
Speech Communications 160 - Fundamentals of Oral Interpretation: Prose and Poetry	3
Speech Communications 182 - Voice and Diction	3
Theatre Arts 211 - Basic Acting	3
Theatre Arts 212 - Scene Study	3
Theatre Arts 261 - Intermediate Oral Interpretation (Drama)	3
Theatre Arts 311 - Fundamentals of Directing	3
Theatre Arts 314 - Computer Design for the Stage	3
Theatre Arts 316 - Performance for Television	3
Theatre Arts 317 - Theatrical Criticism	3
Theatre Arts 390 - Special Studies Seminar I	3
Theatre Arts 411 - History of Avant-Garde Performance	3
Theatre Arts 490 - Independent Research	3

Of the courses satisfying part II, one may be chosen from the following:

English 318 - Shakespeare: The Major Works	3
English 364 - The Tragic Vision	3
English 365 - The Comic Vision	3
Speech Communication 390	3

Note: Courses chosen for the minor may not be used to satisfy the general education requirement.

Student Development

Professor: Schreiner

Associate Professor: Carrese-Araoz

Lecturer: Colucci

Director: Schreiner

Department Office: Academic Core, Room 1G02, Telephone 262-2272

*For information, consult the **Counseling Center**, Academic Core, Room 1G02.*

Teacher Education

Chair: Wynne A. Shilling

Associate Professor: Shilling

Assistant Professors: Clay, Colley, Fusco, Roy, Shipp

Coordinator of Teacher Education Services: TBA

Department Office: Academic Core, Room 1D12, Telephone 718 262-2450

Departmental Mission: Excellence through Diversity of Knowledge, Culture and Communication.

We envision developing a cadre of professional educators who, having been taught by models of good teaching, are prepared with an array of theories, tools, and skills necessary to create rich learning environments in which urban children and youth can strive for and reach success. Toward this end, we seek to provide prospective teachers with a variety of educational experiences, in and outside the classroom, that will enable them to achieve broad and deep knowledge of academic content and pedagogy; be caring and ethical persons able to build teaching and learning environments with the strength of students' diverse cultures and learning styles; and demonstrate strong communication and technological literacy skills. The teachers we produce will be reflective practitioners with a strong conviction that learning is a lifelong process achievable by all and that teaching requires ongoing, critical self-reflection.

We are dedicated to preparing new teachers to serve the Queens community, and the city and state of New York. Many students enrolled at York have an understanding of the needs of urban children and youth. The Department of Teacher Education seeks to build from this strength and expand upon it by preparing teacher candidates to be resourceful collaborators with parents, local community leaders and agencies, and the professional educational community in order to best serve the educational needs of their students.

In collaboration with public schools, departments in the liberal arts and sciences, and physical and health education, teacher education programs prepare teacher candidates to meet New York State initial certification requirements and employment in their chosen program of specialization.

Programs offered include:

- * Childhood Education, grades 1-6
- * Spanish Bilingual extension to the Childhood Education Program
- * Adolescence Education, grades 7-12 in Biology, Chemistry, or Earth Science
- * Adolescence Education, grades 7-12 in Spanish
- * Adolescence Education, grades 7-12 in Mathematics
- * Health Education, grades K-12

* Physical Education, grades K-12.

All programs offered have been registered with the New York State Education Department. Changes in the NYS Education Department regulations may necessitate program revisions.

Becoming a teacher is a process that requires careful planning and preparation with a faculty advisor. This ensures that candidates move smoothly through the process.

Conditional acceptance in a Teacher Education program and beginning the Foundation Sequence requires:

- * matriculation at York College in an approved liberal arts and sciences major
- * passing all CUNY assessment tests including the CPE
- * completion of 45 credits including:
 - Cultural Diversity 210
 - History 201 or 202 or 204 (American History)
 - Political Science 103 or Economics 101 or 102
 - At least one laboratory science
- * a minimum GPA of 2.75
- * submission of an application for review

Formal acceptance into the Teacher Education program Professional Sequence requires that candidates:

- * complete all general education requirements and the Foundations Sequence
- * attend and receive a passing grade in the required Seminar in Teacher Education
- * maintain or exceed an overall GPA of 2.75

For acceptance into the Capstone Sequence, the candidate must complete:

- * the Professional Sequence
- * a minimum of 100 fieldwork hours
- * 2/3 of the courses required in a liberal arts and sciences major
- * all teacher education required courses with a GPA of 2.75 or higher
- * a formal application for approval

Retention in Teacher Education Programs is contingent upon candidates meeting all requirements state above. Candidates must also achieve a grade of "C" or greater in all teacher education program courses. Grades falling below "C" must be successfully repeated to continue in the program. Teacher candidates not meeting performance standards will be referred to the department's Program Management Committee to for plan program continuance.

New York State Certification

The Department of Teacher Education will recommend teacher candidates for initial certification by the New York State Education Department who have:

- Graduated from York College with a baccalaureate degree
- Completed a teacher education program
- Passed the New York State LAST and ATS-W teacher examinations
- Completed required workshops in child abuse and neglect and violence prevention
- Submitted an Application for Certification (with applicable fees payable to the New York State Department of Education)

Teacher Education Programs at York College

Program in Childhood Education, grades 1-6

Candidates in this program are preparing for NYS Initial Certification in Childhood Education. They must select one of the following Liberal Arts majors registered with the NYS Education Department as majors linked to the Initial Certificate Childhood Education program.

African American Studies	Philosophy
Anthropology	Political Science
Economics	Psychology
English	Sociology
French	Spanish
History	Speech Communication and
Liberal Studies	Theater Arts
Mathematics	

Foundation Course Requirements - (17 credits)

Education 280 Childhood and Adolescent Development for Teachers	3
Education 281 Fieldwork in Educational Environments	1
Education 283 Educational Psychology: Effective Teaching and Learning	3
Academic Computing 101 Introduction to Microcomputers	1
Academic Computing 230 Teaching with Multimedia Technology	2
Philos./Sociology 202 (WI) Evolution of Major Ideas and Issues in Education	3
Mathematics 271 Mathematics for Elementary School Teachers	4

Professional Sequence Course Requirements - (14 credits)

Education 312 (WI) Literacy Instruction and Children's Literature in the Early and Primary Years	3
Education 314 Literacy Instruction and Children's Literature for Beginning and Independent Readers	3
Education 317 Curriculum and Methods for Elementary Education: Science	2
Education 318 Curriculum and Methods in Health/Physical Education for the Elementary School	2
Education 323 Curriculum and Methods for Elementary Education: Mathematics	2
Education 333 Constructing Social Studies Relationships Through the Expressive Arts	2

Capstone Experience -- Student Teaching - (6 credits)

Education 431 Supervised Teaching in Elementary School (Grades 1-3)	3
Education 432 Supervised Teaching in Elementary School (Grades 4-6)	3

Spanish Bilingual Extension to the Childhood Education Program (Grades 1-6)

Candidates in this program are preparing for NYS Initial Certification in Childhood Education and the Bilingual Education Extension. They must major in Spanish.

Foundation Course Requirements Bilingual Ext. 17 credits

Education 280 Childhood and Adolescent Development for Teachers	3
Education 281 Fieldwork in Educational Environments	1
Education 283 Educational Psychology: Effective Teaching and Learning	3
Academic Computing 101 Introduction to Microcomputers	1
Academic Computing 230 Teaching with Multimedia Technology	2
Philosophy/Sociology 202 Evolution of Major Ideas (WI) and Issues in Education	3
Mathematics 271 Mathematics for Elementary School Teachers	4

Professional Sequence Course Requirements : Bilingual Extension (19 credits)

Education 269 Theories of Bilingualism and Bilingual Education in the Urban School	3
Education 312 (WI) Literacy Instruction and Children's Literature in the Early and Primary Years	3
Education 317 Curriculum and Methods for Elementary 2 Education: Science	2
Education 318 Curriculum and Methods in Health/Physical Education for the Elementary School	2
Education 323 Curriculum and Methods for Elementary Education: Mathematics	2
Education 333 Constructing Social Studies Relationships Through the Expressive Arts	2
Education 345 Teaching English as a Second Language Through the Content Areas	2
Education 351 Teaching Language Arts to Spanish Speaking Children	3

Capstone Experience--Student Teaching - (6 credits)

Education 431 Supervised Teaching in Elementary School (Grades 1-3)	3
Education 432 Supervised Teaching in Elementary School (Grades 4-6)	3

Program in Adolescence Education Grades 7-12

Adolescence Education programs are open to candidates planning to teach Biology, Chemistry, Earth Science, Mathematics or Spanish. Candidates in these programs are preparing for NYS Initial Certificate in Adolescence Education, grades 7-12 in one of the above content areas. The liberal arts and sciences major must correspond with the content area teacher candidates wish to teach.

Foundation Course Requirements Adolescence Educ. (17 credits)

Education 280	Child and Adolescent Development for Teachers	3
Education 281	Fieldwork in Educational Environments	1
Education 283	Educational Psychology: Effective Teaching and Learning	3
Academic Computing 101	Introduction to Microcomputers	1
Academic Computing 230	Teaching with Multimedia Technology	2
Philosophy/Sociology 202	Evolution of Major Ideas and (WI) Issues in Education	3

Professional Sequence Course Requirements - (6 credits)

Education 340 (WI)	Literacy Instruction Inside Middle & Secondary Schools	3
Education 375	Curriculum & Methods in the Secondary School: Biology	3
or		
Education 371	Curriculum and Methods in the Secondary School: Spanish	3
or		
Education 373	Curriculum and Methods in the Secondary School: Mathematics	3
or		
Education 377	Curriculum and Methods in the Secondary School: Chemistry	3
or		
Education 381	Curriculum and Methods in the Secondary School: Earth Science	3

Capstone Experience--Student Teaching - (8 credits)

Education 442/443	Supervised Student Teaching in Secondary Biology	8
or		
Education 444/445	Supervised Student Teaching in Secondary Chemistry	8
or		
Education 446/447	Supervised Student Teaching in Secondary Earth Science	8
or		
Education 440/441	Supervised Student Teaching in Secondary Mathematics	8
or		
Education 456/459	Supervised Student Teaching in Secondary Spanish	8

Teacher Education Program in Special Subject Areas:

Health Education and Physical Education K - 12

Health Education and Physical Education (K-12) are special subject area programs registered with the NYS Education Department. Upon completion of either program, candidates will have met the Health Education or Physical Education K-12 requirements for NYS Department of Education Initial Certification.

Foundation Course Requirements Health/Phys. Educ. (17 credits)

Education 280	Childhood and Adolescent Development for Teachers	3
Education 281	Fieldwork in Educational Environments	1
Education 283	Educational Psychology: Effective Teaching and Learning	3
Academic Computing 101	Introduction to Microcomputers	1
Academic Computing 230	Teaching with Multimedia Technology	2
Philos./Soc. 202 (WI)	Evolution of Major ideas and Issues in Education	3
Mathematics 271	Mathematics for Elementary School Teachers	4

Professional Sequence Course Requirements - (9 credits)

Education 329	Curriculum and Methods in Elementary School: Health Education	3
or		
Education 327	Curriculum and Methods in Elementary School: Physical Education	3
Education 330	Curriculum and Methods at the Secondary Level: Health Education	3
or		
Education 328	Curriculum and Methods at the Secondary Level: Physical Education	3
Education 340 (WI)	Literacy Instruction Inside Middle and Secondary Schools	3

Capstone Experience Student Teaching - (8 credits)

Education 418/419	Supervised Student Teaching, Health Education in Elementary and Secondary Schools	8
or		
Education 448/449	Supervised Student Teaching, Physical Education in Elementary and Secondary Schools	8

Women's Studies

Minor in Women's Studies

For information, please consult the **Department of Foreign Languages**, Academic Core, Room 3C08.

Coordinator: Eva Vasquez

The Women's Studies minor is designed to familiarize students with knowledge of the often neglected materials concerning the traditional status and role of women in culture and society and to stimulate a critical examination of the concept of gender in a variety of disciplines.

Course Requirements (15 credits)

Required Courses (6 credits)

Humanities 302	Women's Studies	3
Humanities 303	Women's Studies	3

Choose 3 courses from the following list (9 credits):

African-American Studies 203	Famous Black Men and Women	3
African-American Studies 242	The Black Family	3
Anthropology 205	Anthropology of Sex	3
English 395	Women Writers 3	
Fine Arts 325	Women Artists 3	
French 226	French and Francophone Women's Writing	3
Health Education 241	Sex and Sexuality	3
Health Education 316	Family Health	3
History 205	History of Women in the United States	3
History 206	Women and the Family in World History	3
Philosophy 203	Philosophy of Women	3
Psychology 236	The Psychology of Women	3
Sociology 247	Family and Kinship	3
Spanish 300	Women Writers from Latin America	3
Spanish 320	Women Writers from Spain	3
World Literature 226	Contemporary Women Writers in World Literature	3

World Literature

Minor in World Literature

For information, please consult the **Department of Foreign Languages**, Academic Core, Room 3C08.

Chair: Edvige Coleman

The minor in World Literature will enable students to deepen their understanding of the literary contributions of people through time and in diverse areas of the world.

Course Requirements (15 credits)

I. Introduction to Literary Analysis and Theory (Choose one)	3 credits
English 311 – Literary Studies	3
Spanish 200 – Introduction to Literary Analysis	3
II. Regional Literatures 6 credits (Choose two, no more than one from each discipline)	
African-American Studies 220 – West African Literature in English	
African-American Studies 221 – East and Southern African Literature	
French 334 – Literature of the French Speaking West Indies	
French 335 – Literature of French Speaking Africa	
Spanish 301 – The Literature of the Spanish Speaking Caribbean up to Modernismo	
Spanish 302 – The Literature of the Spanish Speaking Caribbean After Modernismo	
Spanish 307 – Contemporary Latin American Literature	
World Literature 201 – Literature of the Western World Through the Renaissance	
World Literature 205 – Introduction to Francophone Literature	
World Literature 206 – Introduction to the Literature of the Caribbean	
World Literature 207 – Introduction to the Literature of Latin American	
III. National Literatures 3 credits (Choose one)	
English 328 – Medieval and Renaissance Literature	
English 345 – Twentieth Century British Literature	
English 350 – Early American Literature	
French 206 – Introduction to Haitian Literature	
Spanish 221 – Spanish Literature to 1700	
Spanish 222 – Spanish Literature from 1700	
World Literature 210 – Modern French Literature in Translation	
World Literature 211 – Italian Theatre in Translation	
World Literature 212 – Masterpieces of Spanish Literature in Translation	
IV. The Literature of Women and Ethnic Minorities 3 credits (Choose one)	
English 392 – Afro-American Literature	
English 395 – Women Writers	
French 226 – French and Francophone Women's Writing	
Spanish 300 – Women Writers from Latin America	
Spanish 320 – Women Writers from Spain	

World Literature 225 – Introduction to Latino Literature
in the U.S.

World Literature 226 – Contemporary Women Writers in
World Literature

Writing Program

Coordinator: Cynthia Haller

Program Office: Academic Core, Room 1C01, Telephone: 262-2128

The Writing Program administers the College's upper-division writing requirement and offers Writing 301, 302, and 303, courses that are designed to help students acquire the research and writing abilities needed in the work of their major, for graduate studies, and in their professional careers. All students entering the College in Fall 1996 or later (including transfer students) are required to take the writing course designated for their major: Writing 301 for majors in the humanities and social sciences, Writing 302 for the natural sciences, mathematics, and technology, and Writing 303 for the professional programs. Students who entered York before the Fall of 1996 and are readmitted to the College in Fall 1996 or later after an absence of three or more consecutive semesters must also take upper-division writing. Students who enter with a previous baccalaureate degree are exempt from this requirement.

Course Descriptions

Courses are offered every semester unless otherwise indicated.

Courses which are liberal arts for all students will be identified with a ✓ mark. Courses which are liberal arts for all but Accounting majors will be identified with a ☆.

Academic Computing

Academic Computing 101. Introduction to Microcomputers I. 30 min. lecture; 1 hr. lab 1 cr. *Prereq: None*

Hands-on introduction to the components and operation of microcomputers. The student's understanding of computer principles, procedures, and terminology will be developed through lab projects using software appropriate to composition and report preparation in the arts and sciences. Students will be required to complete weekly assignments in the York College Computer Lab.

Academic Computing 102. Introduction to Microcomputers II. 1 hr. lecture; 2 hrs. lab for seven weeks plus two additional hours TBA; 1 cr. *Prereq: Academic Computing 101.*

Hands-on introduction to the components and operation of the Macintosh microcomputer system in the environment of the current operating system. Students will acquire knowledge and skills through extensive lab projects using software designed to prepare them for the study of computer graphics and desktop publishing.

Academic Computing 201. Computer Applications 3 hrs., 3 crs.; *Prereq. Academic Computing 101 or its equivalent, Not open to students with credit in Business 201.*

Design and implementation of computerized information systems in business, human services, health, education and public administration, to include an introduction to spreadsheet, graphics and database management software. Students will be required to complete weekly assignments using the microcomputer.

Academic Computing 210. Microcomputers Applications in Education 1 hr. lecture, 1 hr. lab, 1 cr.

Topics include the Internet and World Wide Web and their resources for teachers; the use of computer technology to enhance the curriculum; planning for integration of computer technology; application of word processing in the teaching of writing; spreadsheets; selection and evaluation of courseware; useful microworld environments for children; locating resources for computers in the classroom; ethical and legal issues (Phased out as of Fall 2003)

Academic Computing 230. Teaching With Multimedia Technology 4 hrs lab; 2 cr. *Prereq. Academic Computing 101 Not open to students with credit in Academic Computing 250.*

Students learn the foundations for using multimedia technology in the classroom, become proficient with multimedia technology, study issues of equity related to educational technology, and

become familiar with and integrate NYS K-12 learning standards for technology into projects. Students design curriculum integrating the Internet and student-produced multimedia projects.

Academic Computing 250. Teaching with Technology.

1hr recitation 2 hrs. lab, 1 cr. *Prereq: English 125 and Academic Computing 210. or demonstrated proficiency in the objectives of that course* (Phased out as of Spring 2004).

In this advanced multimedia technology course, student will develop proficiency in integrating multiple computer and multimedia applications for classroom use to assist children as they research information, select and evaluate appropriate software and websites. Students will use multiple technical sources to navigate the web to develop projects and presentations, and to communicate with each other and other educational networks.

Academic Development

☆ **Academic Development 102.** Psychological, Social and Academic Development. 2 hrs.; 2 cr. *Prereq: Entering SEEK Freshmen. Not credited toward fulfillment of any area requirement. Not open to students with credit in Student Development 101 or 110.*

A forum for students to discuss a variety of topics related to their college roles and responsibilities, including personal development, interpersonal relationships, academic demands, career choices and college resources.

☆ **Academic Development 110.** Developing Coping Strategies for Academic Success. 2 hrs.; 1 cr. *Prereq: Open only to students in the SEEK Program. Not credited toward fulfillment of any area requirement. Not open to students with credit in Student Development 101 or 110.*

An examination of human behavior as it relates to developing the appropriate coping strategies, learning techniques and study skills needed to promote academic success.

Accounting

Accounting 101. Accounting I. (Formerly Economics 182). 4 hrs.; 4 cr. *Prereq: Completion of Mathematics 011, 020, or 100, or the equivalent.*

Fundamental accounting theory and practice; entry and posting of typical transactions: trial balances and work sheets; payroll accounting; inventory; fixed assets, depreciation; accounting for notes; income statements; and balance sheets.

Accounting 102. Accounting II. (Formerly Economics 183) 4 hrs.; 4 cr. *Prereq: Accounting 101.*

Partnerships; corporations; introduction to cost accounting; budgeting and managerial concepts; analyzing financial statements; changes in financial position; tax factors in accounting; recording

bond transactions; stocks and bonds as investments; accounting principles.

Accounting 201. Intermediate Accounting I. (Formerly Economics 280) 4 hrs.; 3 cr. *Prereq:* Accounting 102.

Analysis of current accounting concepts and standards underlying reporting income and financial position; includes cash; receivables; inventories; plant assets; depreciation; intangibles; compound interest; present value techniques; long term investments; pronouncements of official bodies.

Accounting 202. Intermediate Accounting II. (Formerly Economics 286) 4 hrs.; 3 cr. *Prereq:* Accounting 201.

Analysis of liabilities; equities; pensions; leases, tax allocation, price level changes; consignments; installment sales; statement of changes in financial position; financial statements; and official pronouncements.

Accounting 210. Computer Applications in Accounting. 2 hrs. lecture; 2 hrs. lab.; 3 cr. *Prereq:* Accounting 102 and Business 201.

Development of criteria for evaluation and selection of accounting software packages, supporting hardware, and operating systems. Design and implementation of computerized accounting information systems utilizing accounting and electronic spreadsheet software programs.

Accounting 301. Advanced Financial Accounting. (Formerly Economics 288) 4 hrs.; 4 cr. *Prereq:* Accounting 202.

Advanced financial accounting theory and practice: branches, combinations, investor accounting, consolidations, partnerships, contemporary accounting problems. Emphasis on professional pronouncements and CPA examination problems.

Accounting 335. Auditing I. 3 hrs.; 3 cr. *Prereq:* Accounting 202. *Not open to students with credit in Accounting 305 or Economics 287.*

Analysis of auditing concepts, standards, procedures, ethics, responsibility, independence of public accountants, audit program, scope, evidence, and statistical sampling. A term report is required.

Accounting 336. Auditing II. 2 hrs.; 2 cr. *Prereq:* Accounting 335.

Application of auditing concepts; standards; procedures to simulate audit cases. Students will apply the foundation of auditing learned in Accounting 335 to audit cases, with emphasis on the development of auditing judgement, quality, and appreciation of internal control, auditing techniques, practice and report writing.

Accounting 345. Cost Accounting I. 3 hrs.; 3 cr. *Prereq:* Accounting 201. *Not open to students with credit in Accounting 314 or Economics 384.*

Analysis of cost accounting methods and procedures, including job order costing, process costing, cost allocation, and cost-volume-profit relationships. Emphasis on accounting for cost as a managerial tool for analyzing and controlling costs, decision making and planning.

Accounting 346. Cost Accounting II. 2 hrs.; 2 cr. *Prereq:* Accounting 345.

Continued application of cost accounting methods and procedures including flexible budgets, standard costs, variances, direct costing, absorption costing, joint and by-product costs. Continued emphasis on accounting for cost as a managerial tool.

Accounting 350. Income Taxation. (Formerly Economics 285) 3 hrs.; 3 cr. *Prereq:* Accounting 201. *Students with credit in Accounting 250 should substitute Accounting 351 for Accounting 350.*

Concepts and laws of taxable income, exemptions and deductions; emphasis on Federal and State income taxes including practical exercises.

Accounting 351. Advanced Income Taxation. 4 hrs.; 4 cr. *Prereq:* Accounting 350.

Advanced Income Taxation including discussions of advanced corporate, foreign, estate and gift taxation, and other specialized areas. Requires preparing a research paper.

Accounting 381. Advanced Accounting Problems. 3 hrs.; 3 cr. *Prereq:* Accounting 301.

Advanced accounting problems: corporate reorganization, foreign operations, governmental and non-profit accounting, interim and segmental reporting, S.E.C. problems. Emphasis on professional pronouncements and CPA examination problems.

African-American Studies

✓ **African-American Studies 101.** Introduction to African-American Studies. 3 hrs.; 3 cr. *Prereq:* None. The human condition and experience of Black people in the United States; emphasis on cultural and historical perspectives.

✓ **African-American Studies 172.** Introduction to Africa. 3hrs.; 3 cr. *Prereq:* None.

A basic examination of the continent from various points of view: its geography, its peoples and highlights of its history, conflicts of culture in Africa, modern political, social, and economic problems facing the continent.

✓ **African-American Studies 203.** Famous Black Men and Women. 3 hrs.; 3 cr. *Prereq:* English 125, and any six credits from the following: African-American Studies 101, African-American Studies 172, Anthropology 101, Cultural Diversity 201, History 272, Sociology 101.

Famous Blacks related to their times so as to ascertain their importance and role in the shaping of the world. Includes Alexandre Dumas, Nat Turner, Ira Aldridge, Jose T. deSousa, Samuel Coleridge-Taylor, Pierre Toussaint L'Ouverture, Mary Seacole, and Frederick Douglass. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **African-American Studies 220.** Western African Literature in English. 3 hrs. ; 3 cr. *Prereq: African-American Studies 172 and English 125.*
The literary expression of the former British colonies of West Africa. Representative authors include Chinua Akebe, Cyprian Ekwensi, Kofi Awoonor, Kwei Armah, Christopher Okigbo, J.P. Clark, and Wole Soyinka. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **African-American Studies 230.** The Contemporary African. 3 hrs. ; 3 cr. *Prereq: African-American Studies 172 and English 125.*
The impact on the "urbanized" African of the simultaneous existence of traditional and Western institutions in Africa today. The "split" personality of the urban African. Conflicts and resolutions consequent on the co-existence of the two systems. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **African-American Studies 242.** The Black Family. 3 hrs. ; 3 cr. *Prereq: African-American Studies 101 and English 125.*
An examination of the effect of such forces as slavery, racism, and economic inequality on Black family life; a critical examination of social scientific theories regarding Black male and female roles in the family. *Offered Spring semesters.*
- ✓ **African-American Studies 245.** The Black Church. 3 hrs. ; 3 cr. *Prereq: African-American Studies 101 and English 125.*
The growth, role and tenets of Black churches in the United States. The relationship between religion, servitude, revolt and civil rights movements in the contexts of slavery and racial oppression. *Offered Fall semesters.*
- ✓ **African-American Studies 261.** Folklore: The African in America. 3 hrs. ; 3 cr. *Prereq: English 125, and any six credits from the following: African-American Studies 101, African-American Studies 172, Anthropology 101, Cultural Diversity 201, History 272, Soc 101.*
Exploration, through folklore, of the origin and continuity from an African to an American setting of certain patterns of behavior to Black group life. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **African-American Studies 265.** Black Revolutionary Thought. 3 hrs. ; 3 cr. *Prereq: English 125, African-American Studies 101 or African-American Studies 172.*
A critical examination of ideological and revolutionary ideas of leading African-American, Caribbean, and African thinkers: Malcolm X, Frantz Fanon, and Amilcar Cabral. Historical, analytical, and comparative, methods will be employed.
- ✓ **African-American Studies 285.** The Urbanization of the American Black. 3 hrs. ; 3 cr. *Prereq: African-American Studies 101 and English 125.*
Causes and effects of the mass migration of Blacks from rural areas to large cities. The impact of mobility on inner-city institutions. Comparisons of Southern and Northern Blacks in terms of culture, economic, social, and political involvement in their communities. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **African-American Studies 322.** Caribbean Literature (in Translation). 3 hrs. ; 3 cr. *Prereq: Junior status or permission of instructor.*
The Caribbean experience as presented in the literary works of its people from 1804 to the present, highlighting the historical role and literary representation of famous Caribbean personages. The role of the cultural review in the literary development of the Caribbean. Representative authors including Frantz Fanon, Claude McKay, Paul Nizer, Jacques Roumain, Aime Cesaire, Chantel, George Lamming, C.L.R. James, and Wilson Harris. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **African-American Studies 323.** Mass Media and the Black Community. 3 hrs. ; 3 cr. *Prereq: Junior status and English 125*
Critical examination of the role of mass media plays in the African-American community, focusing on ownership, access and image making.
- ✓ **African-American Studies 325.** Historiography in Black Studies. 3 hrs. ; 3 cr. *Prereqs: English 125, and any twelve credits from the following: African-American Studies 101, African-American Studies 172, Anthropology 101, Cultural Diversity 201, History 272, Sociology 101, Political Science 101.*
Through review of specific historiographical debates, this course examines the major problems in studying and writing about the Black experience; the craft of writing history will be explored.
- ✓ **African-American Studies 331.** The Civil Rights Movement in America. 3 hrs. ; 3 cr. *Prereq: English 125, and African-American Studies 101 or History 272.*
An examination of the major events, key personalities, and organizations in the history of the movement.
- ✓ **African-American Studies 341.** Black Experience in the Caribbean. 3 hrs. ; 3 cr. *Prereq: English 125, and Anthropology 243 or African-American Studies 101 and African-American Studies 172.*
A basic historical examination of the African experience in the Caribbean; emphasis on the political, economic and social problems facing the region.
- ✓ **African-American Studies 342.** Third-World Consciousness in Africa. 3 hrs. ; 3 cr. *Prereq: English 125, African-American Studies 101 and African-American Studies 172.*
The political, social, and economic genesis of third-world consciousness in Africa; emphasis on its expression in the African territories of Mozambique, Angola and Guinea-Bissau. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **African-American Studies 343.** The Contemporary Black Experience in South Africa. 3 hrs. ; 3 cr. *Prereq: English 125, African-American Studies 101 and African-American Studies 172.*
The indigenous South African society; the role of Blacks in the development of the Union of South Africa; the impact of apartheid on the life of the Blacks in South Africa today. *Offered Spring semesters.*

- ✓ **African-American Studies 354.** The Role of Blacks in the American Economy. 3 hrs. ; 3 cr. *Prereq: African-American Studies 285.*

The contribution of Black Americans to the economic development of the United States. The economics of slavery, expansion of the western frontier, Black labor in northern industries, Blacks and trade unionism, current Black status in labor, business, and management. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **African-American Studies 360.** Black American Culture. 3 hrs. ; 3 cr. *Prereq: African-American Studies 285.*

The evolution of Black-American culture and its effects on American cultural, political, social and economic life. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **African-American Studies 401.** Seminar. 3 hrs. ; 3 cr. *Prereq: Junior status and Writing 301.*

Selected topics, announced each semester, on contemporary Black Africa and Black America. *Not offered on a regular basis. Availability to be determined by the department.*

Anthropology

102

- ✓ **Anthropology 101.** Introduction to Cultural Anthropology. 3 hrs.; 3 cr. *Prereq: None.*

Basic concepts of cultural anthropology, with illustrative material drawn from ethnographic studies of band, tribal, and peasant societies.

- ✓ **Anthropology 103.** Introduction to Physical Anthropology and Archaeology. 2 hrs. lecture; 2 hrs. lab; 3 cr. *Prereq: None.*

Basic concepts and theories of physical anthropology and archaeology. Survey of the evidence for human physical and cultural evolution in prehistoric times. Field trips may be required. *Offered once a year.*

- ✓ **Anthropology 152.** Medical Anthropology. 3 hrs.; 3 cr. *Prereq: None. Not open to students with credit in Anthropology 252 or 352.*

The relationship of culture to nutrition and disease and an analysis of primitive and folk medical practices. *Offered at least once a year.*

- ✓ **Anthropology 201.** Ethnopsychiatry. 3 hrs.; 3 cr. *Prereq: Anthropology 101 or 152, or Psychology 102, or 110.*

The occurrence and treatment of mental illness, anxiety, and stress in pre-industrial and peasant societies, with special emphasis on the role of shamans and curanderos as psychiatric healers. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Anthropology 205.** Anthropology of Sex. 3 hrs.; 3 cr. *Prereq: Anthropology 101.*

The basic assumption behind this course is that cultures are sym-

bolic systems. The course will look at many different societies, focusing on the institution of sexuality and its constituent symbols. Sexuality will be discussed in its relation to other institutions emphasizing correlations between core symbols of the institution of sexual beliefs and practices and core symbols in other institutions. This course will employ a multi-media approach. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Anthropology 211.** Anthropology and City Life. 3 hrs.; 3 cr. *Prereq: Anthropology 101.*

Introduction to the variety of urban life styles. Pre-industrial, Third World, and Western Cities in comparison. The anthropological approach to sub-cultures in an urban setting. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Anthropology 220.** Social Research I 2 hrs. Lecture, 2 hrs. LAB, 3 cr.; *Prereq: Anthropology 101* Not open to students with credit in Sociology 220 or Social Work 350

Introduction to the logic of inquiry; the construction and interpretation of cultural and social indicators and demographic measures; the organization and analysis of quantitative data in anthropological and social research, including the use of micro-computers for graphic and statistical analysis and presentation.

- ✓ **Anthropology 222.** The Archaeology of Early Man. 3 hrs.; 3 cr. *Prereq: Anthropology 103 or permission of instructor. Not open to students with credit in both Anthropology 231 and 232.*

Biological, cultural and behavioral evolution from human origins to the beginnings of food production in the New and Old World. Field trips may be required. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Anthropology 223.** The Rise of Civilization. 3 hrs.; 3 cr. *Prereq: Anthropology 103 or permission of instructor.*

Human prehistory from the origins of settled village life to early civilizations. The emergence of regional patterns, urbanization, and social stratification in major New and Old World centers. Field trips may be required. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Anthropology 234.** Applied Anthropology. 3 hrs.; 3 cr. *Prereq: None.*

The application of anthropological knowledge and techniques in the introduction of Western medical, agricultural and educational technology to non-Western societies; problems and ethics of directed socio-cultural change will be analyzed and principles of directed change will be developed. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Anthropology 235.** Economic Anthropology. 3 hrs.; 3 cr. *Prereq: Anthropology 101, or Economics 101, or 102.*

Economic life and systems of pre-industrial and peasant societies with emphasis on the integration of economy and technology with social and political institutions. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Anthropology 241-248.** Ethnology and Ethnography of Major Culture Areas. 3 hrs.; 3 cr. each. *Prereq: Anthropology 101. Not open to students with credit in Anthropology 341-348.*
Survey of traditional and contemporary societies of a given area; their exposure to a changing world and their responses. *Not offered on a regular basis. Availability to be determined by the department.*
- Anthropology 241.** — Africa
- Anthropology 242.** — Asia
- Anthropology 243.** — The Caribbean
- Anthropology 244.** — Latin America
- Anthropology 245.** — The Mediterranean, Middle East
- Anthropology 246.** — North American Indians
- Anthropology 247.** — Oceania
- Anthropology 248.** — Europe
- ✓ **Anthropology 249.** Anthropology of Puerto Rico. 3 hrs.; 3 cr. *Prereq: Anthropology 101. Not open to students with credit in Anthropology 349.*
Historical and structural dimensions of the rural peasantry and urban poor; the effects of the environment and religions, family, and labor associations on values and attitudes. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Anthropology 301.** Alcoholism and Obesity Cross-Culturally. 3 hrs.; 3 cr. *Prereq: Anthropology 101 or 152 or permission of instructor.*
The occurrence of alcoholism and compulsive overeating in primitive, peasant, and industrial societies and their relationship to cultural stress factors. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Anthropology 302.** Anthropology of Aging. 3 hrs.; 3 cr. *Prereq: One introductory course from any of the behavioral sciences.*
Aging in human societies around the world, with special emphasis on the influence of ecological, techno-economic and social structure factors on the position of the aged. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Anthropology 310.** Techniques of Cross-Culture Research. 3 hrs.; 3 cr. *Prereq: One introductory course from either anthropology, psychology or political science.*
Testing theories and hypotheses about human behavior from world-wide samples of societies, training in the use of Human Relations Area Files and in the use of library computer programs for cross-cultural research. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Anthropology 315.** Hunger and Agriculture in Developing Nations. 3 hrs.; 3 cr. *Prereq: Anthropology 101 or 234, or Sociology 101.*
Problems posed by growing populations making increased demands on limited food-producing capabilities in developing countries, taking into consideration nutritional needs, traditional and modern food-producing technologies, and environment. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Anthropology 321.** Social Research II. 3 hrs.; 3 Cr. *Prereq: Anthropology 220 or Sociology 220 or Social Work 350.* Not open to students with credit in Sociology 321 or Social Work 470
Application of the scientific method, the logic of experimentation, and rules of evidence to cultural and social data, with particular attention to experimental and quasi-experimental research designs, including single-case designs; measurement problems; and sampling designs and the use of inferential statistics.
- ✓ **Anthropology 350.** Anthropology of Tourism. 3 hrs.; 3 cr. *Prereq: Anthropology 101 or permission of the instructor.*
The study of tourism and its role in acculturation, modernization, and economic development. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Anthropology 361.** Primitive Social Organization. 3 hrs.; 3 cr. *Prereq: Anthropology 101.*
Study of the origins and functions of marriage, the family, and kinship in human societies. Study of cultural evolution. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Anthropology 362.** Social Organization of Complex Societies. 3 hrs.; 3 cr. *Prereq: Anthropology 101.*
Analysis of complex socio-political systems, including feudal societies, bureaucratic empires, capitalist and socialist states. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Anthropology 363.** Political Anthropology. 3 hrs.; 3 cr. *Prereq: Anthropology 101.*
Anthropological approaches to political structure, process, and change; theories of political evolution and the cross-cultural variability of political systems. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Anthropology 365.** Cultural Systems of Population Control. 3 hrs.; 3 cr. *Prereq: Anthropology 101 or permission of instructor.*
Comparative analysis of cultural responses to problems of a severe population deficit and surplus in simple and complex societies. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Anthropology 380.** Theory and Method in Anthropology. 3 hrs.; 3 cr. *Prereq: Anthropology 101 and sophomore status. Not open to students with credit in Anthropology 311 or 381.*
The development of anthropological theory and research methods, and the interrelationship of particular schools of thought with particular methods. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Anthropology 393.** Anthropology of Religion. 3 hrs.; 3 cr. *Prereq: Anthropology 101.*

A survey of anthropological approaches to religion, emphasizing both the theoretical contribution of anthropology to the understanding of religion and the cross-cultural variability of religious belief and practice. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Anthropology 401-403.** Seminar in Anthropology. 3 hrs.; 3 cr. *Prereq: 15 credits in anthropology or permission of instructor.*

Selected topics in Anthropology announced prior to registration. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Anthropology 442.** Culture and Personality. 3 hrs.; 3 cr. *Prereq: Anthropology 101.*

An examination of relationships between individual psychological functioning and socio-cultural processes, with examples drawn from primitive, peasant, and modern societies. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Anthropology 451.** Ecological Anthropology. 3 hrs.; 3 cr. *Prereq: Anthropology 101.*

The interrelationships among biological, cultural, and environmental variables in particular ecosystems. Biological variables include plants and animals as well as man. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Anthropology 490-492.** Independent Study. hrs. arranged; Anthro. 490-3 cr., Anthro. 491-2 cr., Anthro. 492-1 cr. *Prereq: 12 credits in Anthropology above the 100 level, or equivalent in related discipline, or permission of instructor.*

Independent, guided research under the supervision of the Anthropology faculty.

Anthropology 495-496. Summer Field Experience. hrs. arranged; 1-3 cr. each. *Prereq: 9 credits in Anthropology or permission of instructor.*

Summer field training programs in anthropology conducted by approved institutions. Interested students consult coordinator of anthropology prior to field experience. These courses may not be used to fulfill the liberal arts requirement. *Not offered on a regular basis. Availability to be determined by the department.*

Astronomy

- ✓ **Astronomy 101:** Introductory Astronomy: The Sun & Planets 3 hrs.; 3 cr. *Prereq: None. Not open for students with credit in Astronomy 111 or Astronomy 140.*

This course is an introductory level overview of the structure and properties of the Solar System, Sun, planets and their moons, comets, asteroids, meteors and more. The general principles of planetary motion and evolution will also be covered such as the appearance and motion of the Sun, sky, Moon and planets, gravity, the nature of light, magnetism and earthquakes. The properties of other newly discovered solar systems, the formation, evolution

and fate of solar systems and the conditions for life here and elsewhere will also be discussed.

- ✓ **Astronomy 102** Introductory Astronomy: Stars, Galaxies & the Universe 3 hrs.; 3 cr. *Prereq: None. Student cannot have taken Astronomy 121 or 140.*

This course concerns the most basic elements of the sky: the stars. Students learn not only how the sky moves and appears, but also how that information forms our model of the Universe. To build this discussion the student will learn how modern science allows us to determine the fundamental properties of stars (temperature, size, distance and mass) and to probe the depths of the Universe. Specific topics may include Kepler's laws of orbits, nuclear fusion, the Hertzsprung-Russell diagram, the stellar life cycle, binary stars, the Milky Way and galaxies, the Big Bang and the fate of the Universe.

- ✓ **Astronomy 140.** Introductory Astronomy: Observations of the Sky 2 hrs. lecture, 2 hrs. lab; 3 cr. *Prereq: None. Student cannot have taken Astronomy 101, 102, 111 or 121.*

This laboratory course introduces the fundamentals of astronomy such as: identifying constellations; the apparent motion of the sky, Sun, Moon and planets; the nature of light; gravity; the properties and life cycles of stars; and measuring astronomical distances. Laboratory, computer and planetarium exercises will be used, and at least one nighttime lab will be scheduled.

- ✓ **Astronomy 201.** The Solar System 3 hrs. lecture, 2 hrs. lab; 4 cr. *Pre- or Co-req: Mathematics 121*

A scientific introduction to the Sun, Earth, planets and Solar System. Topics include gravity, magnetism, electromagnetic radiation, orbital motion, comparative planetology, atmospheres, minor bodies, and the formation and evolution of the Solar System. Also discussed are the structure and influence of the Sun on the planets, the possibility of life beyond the Earth, and the discovery of planets around other stars. Laboratory, computer and observatory exercises will be used, including at least one nighttime lab.

- ✓ **Astronomy 202.** Stars & the Milky Way, 3 hours lecture, 2 hrs. lab; 4 cr. *Pre- or Co-req: Mathematics 121*

A scientific introduction to the stars and our home galaxy. Topics include gravity, electromagnetic radiation, thermodynamics, fusion, stellar motions and evolution, the general properties of stars and how they are derived from theory and observation. Also discussed are the structure, size, content and rotation of the Milky Way galaxy. Laboratory, computer and observatory exercises will be used, including at least one nighttime lab.

- ✓ **Astronomy 203** Introduction to Cosmology 3 hours lecture, 2 hrs. lab.; 4 cr. *Pre- or Co-req: Mathematics 121*

A scientific introduction to galaxies and the structure, origin and fate of the Universe. Topics include gravity, special and general relativity, electromagnetic radiation, galaxies and galaxy clusters, and Hubble's law. Also discussed are the expansion of the Universe, the Big Bang, inflation, and the parameters that determine the fate and content of Universe: dark matter, the density of matter in the Universe, the cosmological constant and the fluctu-

ations in the cosmic microwave background radiation. Laboratory, computer and observatory exercises will be used, including at least one nighttime lab.

Astronomy 301 Observational Astronomy 3 hrs. lecture, 2 hrs. lab. 4 cr. *Prereqs: Physics 107, 108, 101, 102, 151 or 152, and a 100- or 200-level Astronomy or Space Science course or permission of the department*

Nothing is more central to astronomical study than collecting and interpreting the light from the sky. The laboratory and observatory experiences in this class, along with the supporting lecture material, are essential for students minoring in Astronomy or majoring in Space Science. You will get hands-on experience in modern astronomical techniques, and complete semester-long (mostly naked eye) observing projects. You will become familiar with current astronomical science, telescopes, instrumentation and terminology specific to working at various wavelengths of the electromagnetic spectrum. In addition, you will utilize methods for data reduction and statistical analysis.

Astronomy 491 Astrophysics I: Planetary Astronomy

3 credits: 3 hours lecture *Prereq: Physics 351* Basic physics of plasmas; orbital motions; the internal structure, atmospheres, magnetism and formation of the planets; dynamics of moons and rings; solar activity.

Astronomy 492 Astrophysics II: Stellar Astronomy 3 credits: 3 hours lecture *Prereq: Physics 351*

Basic physics of radiation; spectral analysis; distances, motions, and physical properties of stars; stellar interiors and atmospheres; stellar evolution; clusters of stars; the interstellar medium; content, structure, and rotation of the Milky Way galaxy.

Astronomy 493 Astrophysics III: Extragalactic Astronomy

3 credits: 3 hours lecture *Prereq: Physics 351* Galaxies and galaxy clusters; the extragalactic distance scale and Hubble's Law; quasars and active galactic nuclei; general relativity; distances and luminosities in cosmology. Origin and fate of the universe: the Big Bang, cosmic background radiation, inflation, dark matter, the cosmological constant.

Astronomy 495 Independent Study

3 credits, hours arranged, minimum of 6 hours per week.

Prereq: Permission of department prior to registration. Not open to students with a combined total of 12 credits in Independent Study in the Natural Sciences Department. Independent study under supervision of natural sciences faculty.

Astronomy 496 Independent Study 3 credits, hours arranged, minimum of 6 hours per week. *Prereq: Permission of department prior to registration. Not open to students with a combined total of 12 credits in Independent Study in the Natural Sciences Department.* Independent study under supervision of natural sciences faculty.

Biology

✓ **Biology 110.** Environmental Biology. 3 hrs. ; 3 cr. *Prereq: None. Not credited toward fulfillment of Biology major requirements. Not open to students with credit in a 200 level Biology course.*

Introduction to basic principles of ecology and evolution; description of genetic variation in populations, the properties of ecosystems, and the interaction between them which leads to natural selection and evolutionary change. Current problems including the population explosion and biological effects of pesticides and other pollutants.

✓ **Biology 120.** Principles of Inheritance and Human Reproduction. 3 hrs. ; 3 cr. *Prereq: None. Not credited toward fulfillment of Biology major requirements. Not open to students with credit in a 200 level Biology course.*

An introduction to the genetics and chemistry of biological macromolecules, including DNA, RNA, and enzymes, and an examination of their role in life processes. Genetics and biology of sexual reproduction; embryonic growth and development.

✓ **Biology 201.** Biological Principles I. 2 hr. lecture; 1 hr. recitation/prep.; 3 hrs. auto tutorial lab.; 4 cr. *Coreq: Chemistry 101. Not open to students with credit in Biology 207 or 212.*

The biology of organisms; structure and function of plant and animal organ systems; plant and animal phylogeny; developmental biology. Experimental study of biological systems: fetal pig, frog, and representative invertebrates.

✓ **Biology 202.** Biological Principles II. 2 hr. lecture; 1 hr. recitation/prep. ; 3 hrs. auto tutorial lab. ; 4 cr. *Prereq: Biology 201 and Chemistry 101.*

Introduction to cell and molecular biology, genetics and the principles of evolution; correlation of cell structure, chemistry and function. Experimental study of biological systems, cell biology, cell chemistry, genetics.

✓ **Biology 231.** Biology of Plants. 3 hrs. lecture; 3 hrs. lab. ; 4.5 cr. *Prereq: Biology 202.*

Phylogenetic relationships of plants based on comparative studies of structure, function, biochemistry, development, and life cycles; genetics and reproduction of algae, slime molds, fungi, non-vascular and vascular plants. Offered Fall semesters.

✓ **Biology 234.** Anatomy and Physiology I. 2 hrs. lecture; 4 hrs. lab.; 4 crs. *Coreq: Chemistry 105 or 102 or the equivalent or permission of the Instructor. Not credited toward fulfillment of Natural Science area requirements or Biology major requirements. Not open to students with credit in HPOT 315 and 316 or HPMT 330.*

A study of the structure and function of the human body. Topics include: basic anatomical terminology, general organization of the body, cells and tissues, integumentary system, skeletomuscular system, nervous and endocrine systems. Laboratory exercises will include dissection of a representative vertebrate as well as experiments illustrating physiological principles. Offered Fall semesters.

- ✓ **Biology 235.** Anatomy and Physiology II. 2 hrs. lecture; 4 hrs. lab.; 4 crs. *Prereq: Biology 234. Not credited toward fulfillment of Natural Science area requirements or Biology major requirements.*

Continuation of Biology 234. Topics include: circulatory system, respiratory system, digestive system, reproductive and excretory systems. Offered Spring semesters.

- ✓ **Biology 265.** Clinical Microbiology. 2 hrs. lecture; 2 hrs. lab. ; 3 cr. *Prereq: Chemistry 105 or 102; Biology 202. Not credited towards fulfillment of Natural Science area requirements or Biology major requirements. Not open to students with credit in Biology 465.*

Morphology, metabolism, growth, nutrition and genetics of microorganisms including bacteria, viruses, fungi, algae and protozoa, as a background for discussions of the role of microorganisms in disease. Topics include the disease process leading to infections of the respiratory, gastrointestinal and urogenital systems; blood, skin, wound, nosocomial and opportunistic infections. Natural and acquired immunity, physical and chemical methods of control; chemotherapy and antibiotic therapy in disease treatment. Laboratory exercises include the handling and cultivation of microorganisms, differential staining and the diagnostic bacteriology of clinically relevant gram positive and gram negative bacteria.

- ✓ **Biology 281.** Human Structure and Function. 3 hrs. lecture; 2 hrs. lab. ; 4 cr. *Prereq: Biology 120. Not credited toward fulfillment of Biology major requirements and Natural Science Area Requirements.*

Emphasis on muscular systems, nervous systems, cardiovascular system and respiratory gas exchange; fundamentals of bio-feedback are presented as exemplified by the central and autonomic nervous systems and the endocrine system. Designed for students in Physical Education and Health Education.

- ✓ **Biology 283.** The Biology of Aging. 3 hrs.; 3 cr. *Prereq: Gerontology 101. Not credited toward fulfillment of Biology majors and Natural Science Area Requirement.*

The Biology of Aging is designed for students of gerontology who wish to study in greater detail the biological basis of aging changes. Topics will include: Theories of biological aging; the comparative biology of aging in vertebrates and mammals; the influence of genetics, environment, nutrition and exercise on aging; the cellular basis of aging; anatomical and physiological changes in the musculoskeletal, nervous, cardiovascular, respiratory, cutaneous, gastrointestinal, urinary, endocrine, reproductive and immune systems. In studying the organ systems, all sections will be preceded by a review of the normal condition in young adults. Offered Spring semesters.

- ✓ **Biology 307.** Biostatistics. 2 hrs. lecture; 2 hrs. lab. ; 3 cr. *Prereq: Completion of Instrumental Math Requirement. Coreq: Biology 201.*

The basic application of statistics to the analysis of biological and environmental data; concepts of sampling and population distributions. Laboratory session will consist of introduction to digital computers and application of statistical packages to data analysis.

- ✓ **Biology 308.** Invertebrate Biology. 3 hrs. lecture ; 3 hrs. lab. ; 4.5 cr. *Prereq: Biology 202.*

Major invertebrate groups; emphasis on marine invertebrates and the biology of the oceans and on the relationship between man and significant invertebrate types such as parasites and insects. Offered Spring semesters (as demand warrants).

- ✓ **Biology 309.** Biology of the Chordates. 3 hrs. lecture; 3 hrs. lab. ; 4.5 cr. *Prereq: Biology 202.*

Survey of the anatomy, systematics, evolution, life histories, behavior and ecology of chordates with emphasis on the vertebrates. Laboratory includes dissection of representative vertebrates. Trips to museums, aquariums, and zoos. Offered Fall semesters.

- ✓ **Biology 325.** Histology. 3 hrs. lecture; 3 hrs. lab. ; 4.5 cr. *Prereq: Biology 202.*

A study of the microscopic structure of animal tissues, including their cellular composition, origin, function and arrangement into organs. Laboratories will emphasize the preparation and study of prepared tissue and organ specimens. Offered Spring semesters.

- ✓ **Biology 334.** Comparative Physiology. 3 hrs. lecture; 3 hrs. lab; 4.5 cr. *Prereq: Biology 202.*

Excitable membranes and general properties of nerve function; receptors, reflex mechanisms, autonomic nervous system, pathways and integrative properties of the central nervous system; comparison of function in various organisms of muscular, respiratory, cardiovascular, excretory, digestive, salt-water regulatory, temperature regulatory and endocrine mechanisms. Offered Fall semesters.

- ✓ **Biology 336.** Pathophysiology. 3 hrs.; 3 cr. *Prereq: Biology 234, 235 and Chemistry 105. Not credited toward fulfillment of Biology major requirements.*

The study of mechanisms by which disease processes occur in the human body. Responses of the organ systems to the pathophysiological condition and how these differ from the normal function. Emphasis will be placed on structural and functional disorders of the various biological systems. This course is designed for students in the B.S. Nursing Program but is open to interested students who meet the requirements. Offered Fall semesters.

- ✓ **Biology 343.** Laboratory Exercises in Genetics. 4 hrs.; 2 cr. *Prereq/Coreq: Biology 344.*

Modern experiments in genetics; Bacterial conjugation; gene expression and regulation; DNA cloning and amplification; Human DNA analysis.

- ✓ **Biology 344.** Molecular and General Genetics. 4 hrs. ; 4 cr. *Prereq: Biology 202, Chemistry 231.*

The chemical base of heredity — DNA structure and replication, recombinant DNA technology, cloning strategies and clinical applications of restriction fragment polymorphisms. Mutation, gene structure and function in prokaryotic and eukaryotic systems. Gene regulation and the genetic code. Molecular basis of chromo-

- some structure, mitosis and meiosis. Mendelian principles and their application to population genetics. Sex linkage and sex determination. Linkage recombination and transposition; extrachromosomal genetics and onco-genetics.
- ✓ **Biology 382.** Nutrition. 2 hrs.; 2 cr. *Prereq: Biology 234, 235. Not credited toward fulfillment of Biology major requirements.*
Principles and issues in nutrition in health and disease. Diets: facts and fads, deficiencies and disease states, drugs and additives. Nutrient absorption and malabsorption; metabolism for energy, development and growth. Special needs in nutrition from fetal development to the aged, and in various physiological states. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Biology 403.** Ecology. 3hrs. lecture; 3 hrs. lab; 4.5 cr. *Prereq: Biology 202.*
An examination of the factors comprising ecosystems with emphasis on the specific relationships between plants and animals in various types of habitats. Particular attention to the ecological role played by man. Laboratory and field work will consist of studying those physical, chemical and biological techniques which are useful in environmental analysis. *Offered Spring semesters.*
- ✓ **Biology 412.** Biochemistry. 3 hrs.; 3 cr. *Prereq: Biology 202; Chemistry 231 and 232 or 230. Not open to students with credit in Chemistry 412.*
Enzyme systems and their control, intermediary metabolism; transport mechanisms and role in cell function; structure of nucleic acids; protein synthesis. The interrelationship of these processes and effects of disease will be stressed. *Offered Fall semesters.*
- ✓ **Biology 415.** Biochemistry and Molecular Biology. 4 hrs. lab; 2 cr. *Prereq or Coreq: Biology 412, or Chemistry 412.*
Model building and wet lab experiments to introduce the fundamentals of nucleic acids and proteins: structure, measurements and manipulations; intermediary metabolism.
- ✓ **Biology 445** Cell and Molecular Biology. 3 hrs. lecture; 3 hrs. lab; 4.5 cr. *Prereq: Biology 343 and 344*
Introduces the student to the cell as the unit of living matter using molecular and experimental approaches. Theory and laboratories in gene expression, protein activity, subcellular structure and function, cell regulation, and cell-to-cell communication.
- ✓ **Biology 452.** Developmental Biology. 3 hrs. lecture; 3 hrs. lab.; 4.5 crs. *Prereq: Biology 344 and 343.*
The molecular, cellular, and genetic bases of developmental processes in non-embryonic and embryonic systems; experimental analysis of early embryogenesis in the sea urchin, chick, and frog and morphogenesis of cells, tissues, and organs. *Offered Spring semesters.*
- ✓ **Biology 465.** Microbiology. 3 hrs. lecture; 3 hrs. lab.; 4.5 cr. *Prereq: Biology 202; Chemistry 230 and 235 or 231 and 232.*
Ultrastructure, physiology, and metabolic and catabolic reactions in microorganisms as they relate to their industrial or medical usefulness; classification, with emphasis on disease-related organisms, aspects of water, food and dairy microbiology; immunological techniques applicable to medical microbiology.
- ✓ **Biology 466.** Immunology. 3 hrs. lecture; 3 hrs. lab.; 4.5 cr. *Prereq: Biology 202; Chemistry 230 and 235 or 231 and 232.*
Origin and mechanisms of the immune response; molecular structure of antigens and antibodies; cell-mediated immune responses; the genetic basis of antibody formation; neoplastic disease and immunity; immunosuppression; and transplantation. *Offered Fall semesters.*
- ✓ **Biology 480.** Theory and Experimentation in Biotechnology. 7 hrs.; 5 cr. *Prereq: Biology 343 and 412.*
Theory and methods of contemporary molecular biology and biotechnology. Topic and experiments will include the methodology in the forefront of genetic engineering such as tissue and cell cultures, separation processes, synthesis use of recombinant DNA carried out under P2 facilities. Analytical techniques such as ultracentrifugation, radiolabelling technique, scintillation counting, radio immuno-assays, immunological microtechniques, electrophoresis and isoelectric focusing in bio-chemical analysis and purification will be examined.
- ✓ **Biology 485-88.** Special Topics in Biology. Lecture, lab. hrs. to be arranged; 3 cr. each. *Prereq: Biology 202, Junior status in Biology.*
Intensive study of an advanced biological topic, the subject to be announced prior to registration. Field trips may be required. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Biology 490-493.** Independent Study. Minimum 6 hrs./wk.; 3 cr. each. *Prereq: Permission of instructor prior to registration. Not open to students with a combined total of 12 credits in Independent Study in the Natural Sciences Department. PASS/FAIL after 6 credits of Independent Study in Natural Sciences have been completed. A student may register for only one independent study course in the Natural Sciences Department per semester, intersession or summer session.*
Independent research in an area of mutual interest to students and a faculty member. A formal report on topic is required.

Biotechnology

Biotechnology 203 Introduction to Biotechnology
2 hrs. Lecture, 2 crs. *Prereq: Biology 202, Chemistry 102*

An introduction to the field of biotechnology including recombinant DNA technology, polymerase chain reaction, genetic engineering, bioreactor design and control, bioinformatics, protein engineering and rational drug design. Scientific issues pertaining to government regulation, U.S. Pharmacopeia, patent law, and ethics will also be discussed. Field trips may also be included.

Biotechnology 241 Instrumental Methods for Biotechnology
1 hr. Lecture, 4 hrs. Lab, 3 crs., *Prereq: Biotechnology 203*

Introduction to the principles and methods of instrumental analysis with particular emphasis on techniques and applications relevant to biotechnology such as: UV-vis and IR spectroscopy, chromatography, electrophoresis, PCR, fluorescence spectroscopy, mass spectroscopy and computerized molecular modeling. Computerized acquisition and analysis of data is incorporated into the experiments.

Biotechnology 350 Computational Biology and Molecular Design
2 hrs. Lecture, 2 hrs. Lab, 3 crs. *Prereq: Biotechnology*

203, Biology 344, Chemistry 233 and Mathematics 121 (or 184)

Mathematical methods and computer-based applications are required to solve complex biological and biochemical problems. These problems often involve enormous data sets. Specific applications include computer-based analysis of physical mapping of DNA, construction of phylogenetic trees, and molecular structure prediction. Lecture presentations will be augmented with computer-based laboratory instruction.

Biotechnology 352 Bioinformatics

2 hrs. Lecture, 2 hrs. Lab, 3 crs. *Prereq: Biotechnology 203, Biology 344, Chemistry 233 and Mathematics 121 (or 184)*

Bioinformatics encompasses both the evolving conceptual basis, as well as the expanding methodology, for the organization and analysis of sequence data. It involves the application of computational and analytical methods to problems in biotechnology, biology and biochemistry. This course is designed to develop a structured approach to biological data as well as to build the tools required to analyze the data. Students need access to a computer and the internet to complete the course assignments.

✓ **Biotechnology 480.** Theory and Experimentation in Biotechnology. 7 hrs.; 5 cr. *Prereq: Biology 343 and 412.*

Theory and methods of contemporary molecular biology and biotechnology. Topic and experiments will include the methodology in the forefront of genetic engineering such as tissue and cell cultures, separation processes, synthesis use of recombinant DNA carried out under P2 facilities. Analytical techniques such as ultracentrifugation, radiolabelling technique, scintillation counting, radio immuno-assays, immunological microtechniques, electrophoresis and isoelectric focusing in bio-chemical analysis and purification will be examined.

Biotechnology 485 Selected Topics in Industrial Biotechnology
1 hr. Lecture, 1 cr. *Prereq: Permission of Department.*

This course covers the underlying scientific principles and technologies found in industrial, pharmaceutical, and agricultural biotechnology. The course will include lectures, guest seminars, and discussions on topics such as: molecular biology techniques, industrial microbiology, vaccine and therapeutic protein development, transgenic mice, bioreactor design and control, rational drug design, genomics - pharmacogenetics, plant biotechnology, patent law and ethical issues associated with these technologies. Students will also be required to prepare brief presentations on current topics..

Business

Business 201. Computer Applications in Business. 2 hrs. lecture, 2 hrs. lab.; 3cr. *Prereq: Accounting 101 and 102.* Not open to students with credit in Academic Computing 201.or Business 326.

Design and implementation of computerized information systems. Applications include computerized spreadsheets, word processing, graphics, and data base management.

Business 202. Introduction to Management Information Systems. 3 hrs., 3 cr. *Prereq: Not open to students with credit in BUS 402.*

Introduction to information systems for business and other non-computer science majors. Basic concepts about the components and the operations of information systems such as computer hardware, software, database management and telecommunications technologies are covered. Also included are: Electronic Commerce,

Emerging Technologies, the development of IT systems, the management of IT systems, Decision Support Systems, Expert Systems and Artificial Intelligence.

Business 283. Business Law I. (Formerly Economics 283) 3 hrs.; 3 cr. *Prereq: Economics 101 or 102.*

Origin and development of Business Law, its theory and application; Law of contracts, bailments, sales; particular emphasis on New York State Law.

Business 284. Business Law II. (Formerly Economics 284) 3 hrs.; 3 cr. *Prereq: Business 283 or Economics 283.*

Law of business organizations; agencies and partnerships, corporations, negotiable instruments.

Business 301. Management Theory and Practice. (Formerly Economics 381) 3 hrs.; 3 cr. *Prereq: Economics 101 or 102. Additional prerequisite for Business Administration, Marketing, and Information Systems Management majors: Co-op 101.*

Theories of management, design of organizational structure, human factors in management, fundamentals of decision theory, and performance evaluation. Provides basic concepts and tools for managerial decision.

Business 302. Introduction to International Business. 3 hrs.; 3 cr. *Prereq: Economics 101.*

Terminology, scope, status and evolving patterns of International Business; survey of managing, marketing and financial implications of comparative economic, social, cultural and political environments and systems.

Business 303. Office Information Systems. 3 hrs.; 3 cr. *Prereq: Business 201.*

This course emphasizes hands-on use of office information systems. Included in the course are word processing systems, spreadsheets, database management systems, presentation systems, organizers, local area networks and the Internet.

Business 311. Personnel Management. (Formerly Economics 281) 3 hrs.; 3 cr. *Prereq: Business 301.*

Managerial labor policies with special reference to factors affecting production efficiency and morale; apprenticeship, retirement, dismissal, work assignments and schedules, horizontal and vertical communications, workers' evaluation, promotions, wage payment, and welfare policies.

Business 312. Staff Supervision and Employee Relations. 3 hrs.; 3 cr. *Prereq: Business 301.*

Practical application of current management theory from the perspective of the supervisor. Techniques of employee relations directed at improving morale and motivation and increasing efficiency. *Not offered on a regular basis. Availability to be determined by the department.*

Business 315. Health Care Management 3 hrs.; 3 cr. *Prereq: Business 301.*

Application of management theories to the health care industry using numerous examples, issues, and cases from the health care industry. This approach to the subject offers an opportunity for students in health-related careers with a fundamental management orientation.

Business 321. Business Finance. 3 hrs., 3 cr. *Prereq: Economics 102, Mathematics 115, Accounting 102*

Financial aspects of modern firms with emphasis on capital structure, procurement of funds, basics of asset management, problems of capitalization, the role of security markets.

Business 322. Investment and Security Analysis (formerly Economics 382). 3hrs.; 3cr. *Prereq: Economics 101 or 102, Economics 220, and Accounting 101.*

Introduction to investment and securities; analysis of various types of securities, investment portfolio, management, and security selection; emphasis on new concepts and techniques. Not offered on a regular basis. Availability to be determined by the department.

Business 325. Introduction to Mortgage Banking. 3 hrs., 3 cr. *Prereq: Business 301.*

The course will provide the students with an introduction to the four areas of Mortgage Banking. The four areas are: Originations, Underwriting, Secondary Markets and Appraisals. The course will cover the function and purpose of each area, how the areas interact, and how practicing professionals operate in each of these areas.

Business 326. Computer Applications in Mortgage Finance, 3 hrs.; 3 cr. *Prerequisite: Business 325 and knowledge of word processing and spreadsheet applications. Not open to students with credit in Business 201.*

Covers the latest technology currently being used in the mortgage industry. This course will provide students with the capabilities and knowledge needed to incorporate technology into all aspects of the mortgage loan cycle.

Business 327. Diversity Awareness and Customer Service in Mortgage Lending. 3 hrs.; 3 cr. *Prereq: Business 301. Not open to students with credit in Cultural Diversity 101.*

Explores the impact of cultural diversity and government fair lending legislation upon home ownership patterns and the effect of communication and customer service on the fairness of the lending process. The course describes principles of effective customer service and communication across cultures and treats issues of discrimination in housing and efforts to solve them as incorporated into housing programs.

Business 328. Fair Housing and Fair Lending Laws. 3 hrs. ; 3 cr. *Prereq: Business 325 and knowledge of word processing and spreadsheet applications.*

This course will examine the origins of regulatory and compliance laws which were established to address discriminatory practices in housing and lending. This course will give the student a policy perspective on legislation as it relates to mortgage lending.

Business 348. Production/Operations Management. 3 hrs.; 3 cr. *Prereq: Business 301, Economics 220, Mathematics 115.*

Planning, control, and evaluation of production and operations functions in any type of firm; management decision making, scheduling, inventory control, and productivity analysis.

Business 349. Small Business Management. 3 hrs.; 3 cr. *Prereq: Business 301, Business 341, and Accounting 101.*

Small business firms are an integral part of the business scene. Small firms are active in major areas of business such as manufacturing, mining, wholesaling, retailing services, and finance. The course will deal with management and marketing aspects of small businesses; legal and financial aspects will also be discussed. Not offered on a regular basis. Availability to be determined by the department.

Business 361. Wage and Salary Administration. 3 hrs.; 3 cr. *Prereq: Business 311.*

Principles and techniques of wage and salary administration including job analysis, job evaluation, merit rating and wage incentives; study of compensation policies, theories and practices. *Not offered on a regular basis. Availability to be determined by the department.*

Business 402. Management Information Systems. 3 hrs.; 3 cr. *Prereq: Business 301, Accounting 102, Mathematics 115, or 121 or 184 and Computer Science 291.* Not open to students with credit in Business 202.

Design, analysis and evaluation of management information systems; techniques of gathering, organizing, controlling, disseminating and utilizing information in organizations; the organization viewed as an information network.

Business 425. Mortgage Loan Servicing 3 hrs.; 3 cr. *Prereq: Business 325.*

Study of procedures carried out after the loan has been closed. Organization of loan servicing departments, ARMs and fixed rate mortgages, prepayments, escrow accounts, real estate taxes, insurance, contract changes, delinquencies and foreclosure are among topics covered.

Business 426. Lending Programs for Affordable Housing 3 hrs.; 3 cr. *Prereq: Business 325 and Business 328.*

Study of specialized programs that provide financing opportunities to low and moderate-income households. The course includes an in-depth treatment of specific techniques used to facilitate home-ownership and related sources of funds, types of mortgages and various community lending products, non-traditional underwriting guidelines and homebuyer education and counseling.

Business 481. Business Policy. 3 hrs.; 3 cr. *Prereq: Completion of all other course requirements in major field. Open to seniors only.*

Capstone course in Business Administration; case method technique designed to integrate the materials in Business Administration program and to improve the managerial skills of the students.

Business 491. Independent Study in Management. 3 hrs.; 3 cr. *Prereq: Junior status and permission of instructor.*

In-depth investigation of management problem of the student's choice with faculty approval and guidance.

Chemistry

- ✓ **Chemistry 101.** Chemical Principles I. 3 hrs. lecture; 1 hr. problem lab.; 3 hrs. lab.; 5 cr. *Prereq: Mathematics 101 or the equivalent.*
Introduction to chemical principles and concepts. Topics include: stoichiometry, gases, liquids, solids, solutions and equilibrium.
- ✓ **Chemistry 102.** Chemical Principles II. 3hrs. lecture; 1 hr. problem lab.; 3 hrs. lab.; 5 cr. *Prereq: Chemistry 101.*
A continuation of Chemistry 101. Topics include: oxidation-reduction reactions, electrochemistry, thermodynamics, chemical kinetics, atomic theory, periodic properties, chemical bonding, and nuclear reactions.
- ✓ **Chemistry 105.** Essentials of College Chemistry. 3 hrs. lecture; 4 hrs. lab.; 5 cr. *Prereq: Mathematics 101. Not credited toward fulfillment of the Chemistry, Biology, Physics, Geology, Medical Technology or Environmental Health majors. Not open to students with credit in Chemistry 101 or 102.*
The essential principles and concepts of college chemistry. Topics include: Stoichiometry, gases, liquids, solids, solutions, the equilibrium state, ionic equilibria in solution, redox reactions, atomic and molecular structure and nuclear chemistry.
- ✓ **Chemistry 120.** Environmental Chemistry. 3 hrs.; 3 cr. *Prereq: None. Not credited toward fulfillment of Chemistry major requirements. Not open to students with credit in Chemistry 101.*
An introduction to chemically-related environmental problems. Sources of pollution, health and material effects, and economic factors. Air and water pollution, solid waste disposal, pesticides, agricultural chemicals, and food additives. Solutions to environmental problems. Offered Fall semesters. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Chemistry 121.** Chemistry in Our Time. 3 hrs.; 3 cr. *Prereq: None. Not credited toward fulfillment of Chemistry major requirements. Not open to students with credit in Chemistry 101.*
Chemical basis of commercial claims in products such as foods, drugs, detergents, fabrics, and other common products. Basic concepts of chemical structure and reactivity will be introduced. Offered Spring semesters. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Chemistry 230.** Essentials of Organic Chemistry. 3 hrs.; 3 cr. *Prereq: Chemistry 102 or Chemistry 105. Not credited toward fulfillment of Chemistry major requirements. Not open to students with credit in Chemistry 231.*
Properties and reactions of hydrocarbons and compounds containing common functional groups, spectroscopy, Lewis acids and bases, structural theory stereochemistry, carbohydrates, lipids, proteins, and other materials of biological significance.
- ✓ **Chemistry 231.** Organic Chemistry I. 3hrs.; 3 cr. *Prereq: Chemistry 102.*
Introduction to modern concepts of organic chemistry; bonding, reaction theory, spectroscopy, stereochemistry and nomenclature, relationships between structure and reactivity.
- ✓ **Chemistry 232.** Techniques of Organic Chemistry I. 4 hrs.; 2 cr. *Prereq: Chemistry 102. Coreq: Chemistry 231.*
Survey of currently used methods for isolation, purification, and characterization of organic compounds; application of chromatography, infrared spectroscopy, and distillation to experimental problems.
- ✓ **Chemistry 233.** Organic Chemistry II. 3 hrs.; 3 cr. *Prereq: Chemistry 231.*
Continuation of Chemistry 231; functional group reactivities, reaction mechanisms, and biologically significant compounds; emphasis on research methods and synthesis.
- ✓ **Chemistry 234.** Techniques of Organic Chemistry II. 4 hrs.; 2 cr. *Prereq: Chemistry 232. Coreq: Chemistry 233.*
Continuation of Chemistry 232; organic qualitative analysis, rational synthesis, and independent investigation.
- ✓ **Chemistry 235.** Laboratory in Organic Chemistry. 4 hrs. lab.; 2 cr. *Coreq: Chemistry 230. Not credited toward fulfillment of Chemistry major requirements. Not open to students with credit in Chemistry 232.*
Synthesis and purification procedures of organic chemicals including drugs, vitamins, dyes, etc. are stressed. Experiments will include product identification.
- ✓ **Chemistry 237.** Toxicology. 3 hrs.; 3 cr. *Prereq: Chemistry 230 or 231.*
Introduction to toxicology; drug-related toxic manifestations in animals and humans; asphyxiants; irritants; narcotics and anesthetics; the meaning of LD₅₀; carcinogens, mutagens, and teratogens (carcinogenesis); threshold limit values and maximum allowable concentrations; pulmonary dust diseases; and routes of entry of toxic materials. Offered Fall semesters.
- ✓ **Chemistry 241.** Instrumental Methods of Analysis. 1 hr. lecture; 4 hrs. lab.; 3 cr. *Prereq: Chemistry 102 and Physics 103 and 105 or 103 and 107. Not credited toward fulfillment of Chemistry major requirements.*
Introduction to the principles and methods of instrumental analysis; applied spectroscopy, electroanalytical chemistry, applied radiochemistry, and analytical separations based on interphase distribution; methods discussed in terms of basic theory, instrument design, and applications; basic electronics, automation, and computerization of data.
- ✓ **Chemistry 310.** Inorganic Chemistry. 3 hrs.; 3 cr. *Prereq: Chemistry 102. Coreq: Chemistry 321 or 322.*
Modern concepts of atoms, ions and molecules. Emphasis will be placed on Schrodinger equation solutions, electronic configuration of atoms, modern descriptions of ionic and covalent compounds and transition metal complexes. Offered Fall semesters.
- ✓ **Chemistry 321.** Physical Chemistry I. 3 hrs. ; 3 cr. *Prereq: Chemistry 102, Mathematics 122, and Physics 106 or 108.*
Classical and molecular investigation of thermodynamics: laws of

- thermodynamics, thermochemistry, entropy, free energy, chemical equilibria, molecular energies, Boltzmann distribution, and electrochemistry. Offered Fall semesters.
- √ **Chemistry 322.** Physical Chemistry II. 3 hrs. ; 3 cr. *Prereq: Chemistry 102, Mathematics 122, and Physics 106 or 108.*
Introduction to quantum mechanics, chemical bonding, spectroscopy, chemical kinetics, and statistical mechanics. Offered Spring semesters.
- √ **Chemistry 330.** Structure and Mechanism in Biochemistry. 3 hrs.; 3 cr. *Prereq: Chemistry 233.*
An introduction to the chemical principles that provide the foundation of our understanding of protein structure and enzyme function. Emphasis is placed on the relationship of basic organic structural concepts to the determination of protein conformation and of standard organic reaction theory to the explanation of the step-by-step mechanisms by which enzymes perform their functions. Biocatalysis is examined from a physical chemical and mechanistic point of view and spectroscopic techniques relevant to the determination of structure and mechanism in biochemical reactions are discussed. *Not offered on a regular basis. Availability to be determined by the department.*
- √ **Chemistry 339.** Heterocyclic Chemistry and Drug Chemistry. 3 hrs.; 3 cr. *Prereq: Chemistry 233.*
Deficient heteroaromatics; excessive heteroaromatics; significant ring structures; synthetic methods; novel heterocycles and reactions; brief history of medicinals, folk remedies; biologically active heterocycles; drug metabolism, structure-activity relationships; rational drug design. *Not offered on a regular basis. Availability to be determined by the department.*
- √ **Chemistry 341.** Instrumental Analysis I. 6 hrs. lab.; 3 cr. *Coreq: Chemistry 321.*
Introduction to modern chemical analysis; infra-red, visible, and ultra-violet spectrophotometry; atomic absorption, conductimetric and potentiometric analysis. Offered Fall semesters.
- √ **Chemistry 342.** Instrumental Analysis II. 6 hrs. lab.; 3 cr. *Co-req: Chemistry 321 or 322*
Analytic techniques include X-ray diffraction, emission spectroscopy, nuclear magnetic resonance, mass spectroscopy, nuclear chemistry, and a choice of techniques relevant to the student's professional interests: electrophoresis, the Auto Analyzer, kinetic methods, spectrofluorimetry and advanced chromatographic techniques. Offered Spring semesters.
- √ **Chemistry 401.** Independent Study. Hours arranged; 1 cr. *Prereq: Permission of the instructor.* Individually guided study of an advanced topic in chemistry.
- √ **Chemistry 412.** Biochemistry. 3 hrs.; 3 cr. *Prereq: Biology 202, Chemistry 231 and 232 or 230 and 235.* *Not open to students with credit in Biology 412.*
Enzyme systems and their control, intermediary metabolism; transport mechanisms and role in cell function, structure of nucleic acids; protein synthesis. The interrelationship of these processes and effects of disease will be stressed. Offered Fall semesters.
- √ **Chemistry 421.** Physical-Inorganic Laboratory. 6 hrs.; 3 cr. *Prereq: Chemistry 321 and 310 Co-req: 300-level Writing course*
Integrated approach to modern experimentation in inorganic and physical chemistry; inorganic synthesis, vacuum line techniques, macromolecules, kinetics, thermodynamics, and spectroscopy. Offered Spring semesters.
- √ **Chemistry 450.** Advanced Topics in Chemistry. 3 hrs. ; 3 cr. *Prereq: Chemistry 310, 321. Coreq: Chemistry 322.*
Advanced topics such as: the Woodward-Hoffman rules, structure-activity relationships, kinetics and mechanisms of the reactions of coordination compounds, electron deficient compounds, inorganic compounds of biological significance, chemistry in non-aqueous solvents, acid-base theory, chemical applications of group theory, polymers, statistical thermodynamics. Content will be chosen to reflect the needs and interests of the students. Offered Fall semesters.
- √ **Chemistry 485.** Special Topics in Chemistry. 6 hrs. lab. ; 3 cr. *Prereq: Chemistry 233, Junior status.*
Intensive study in advanced chemical topics and experimental methods. *Not offered on a regular basis. Availability to be determined by the department.*
- √ **Chemistry 490-493.** Independent Study. Minimum 6 hrs./wk.; 3 cr. each. *Prereq: Permission of instructor prior to registration. Not open to students with a combined total of 12 credits in Independent Study in the Natural Sciences Department. PASS/FAIL after 6 credits of Independent Study in Natural Sciences have been completed. A student may register for only one independent study course in the Natural Sciences Department per semester, or summer session.*
Individually guided investigation of an advanced topic in chemistry. A formal report on topic is required.

Chinese

- √ **Chinese 101.** Elementary Chinese I. 4 hrs.; 4 cr. *Prereq: None.*
Basic principles of a beginner's course; designed to give the foundations of the language.
- √ **Chinese 102.** Elementary Chinese II. 4 hrs.; 4 cr. *Prereq: Chinese 101.*
Continuation of the beginner's course; more complex grammatical structures, integrated readings and further practice in conversation.

Communications Technology

Communications Technology 101. Introduction to Video. 1 hr. lecture; 2 hrs. lab.; 2 cr. *Prereq/Coreq: English 125*

Fundamentals of single camera video production: shooting, lighting, and editing. Students learn how to run a camera, properly shoot a story, light an interview subject or an area to be shot, wire an interview subject or an area for sound and edit their material with a non-linear editing system..

Communications Technology 201. Foundations in Communications Technology. 3 hrs.; 3 cr. *Prereq: Communications Technology (CT) 101.*

The nature, development, functions, and social context of communications technology, including theories of information transmission and the history of print, photographic, sound, motion image, and computer-based media.

Communications Technology 205. Principles of the Moving Image. 3 hrs.; 3 cr. *Prereq: CT 201.*

Introduction to the fundamental principles of film and television communication with emphasis on analyzing the interaction of the media text with technology to determine how the elements of form and style function dynamically to construct meaning.

Communications Technology 240. Basic Studio Television Production. 1 hr. lect., 2 hrs. Lab.; 2 cr. *Prereq: CT 201; Prereq/Coreq: English 282.*

Basic pattern of live television, including the principal elements of production: planning, studio equipment operation, lighting, sound, control room equipment operation, and directing.

Communications Technology 244. Multimedia Sound. 1 hr. lect., 2 hrs. Lab.; 2 cr. *Prereq: CT 101.*

Introduction to the techniques of sound production for multimedia, covering the physics of sound, recording equipment techniques, multi-track mixing, and editing sound for picture. Using a non-linear digital audio workstation, students will produce soundtracks for various multi-media projects with current audio software such as Pro Tools.

Communications Technology 345. Advanced Digital Image. 2 hr lecture; 2 hrs lab; 2 cr *Prereq: CT 240.*

Introduction to the techniques of motion picture graphics production for television and video: video effects and animation; lighting and shooting of blue screens; and layering of video sequences. Using non-linear editing workstations, students will produce videos using current video and effects software such as Final Cut Pro and After Effects.

Communications Technology 355. Video Documentary Production. 2 hr lecture, 2 hrs lab; 3 cr. *Prereq: CT 240.*

Fundamentals of video documentary production: pre-production planning, budgeting, scripting, filming, editing, and directing. Students in small groups learn the theory and techniques of using portable digital video cameras, lighting and sound equipment in

field work and complete digital editing with titles, voiceover, music, and special effects in a studio setting. A brief history and role of the documentary is included.

Communications Technology 360. Principles of Web Publishing. 1 hr. lect., 2 hrs. Lab.; 2 cr. *Prereq: CT 201.*

Fundamental design theories and principles of web publishing. Topics include typography, layout, basic design, tables, frames, layers, digital image editing, adding pages, and file formatting. Students will build web pages using current design software such as Adobe Photoshop and Macromedia Dreamweaver.

Communications Technology 370. Applications Programming. 3 hrs. 3 cr. *Prereq: CT 201.*

Principles and techniques of applications programming for the web. Topics include programming structures, data types, arrays, variables, statements, functions and objects. Also included are how to control overall design, and passing data from client to servers and between clients. The student is expected to create, design and produce well-designed, dynamic and interactive web pages using applications programming technology such as JavaScript.

Communications Technology 380. Teaching the Stream. 2 hr. lect., 2 hrs. Lab.; 3 cr. *Prereq: CT 345, CT 360, or CT 370.*

Overview of streaming media solutions, delving into the technologies of compression and delivery. The history of streaming media and the implementation of various multimedia architectures are included. Principles and techniques of setting up and configuring various streaming media servers, and examining their impact on an IT department. Student projects include producing and encoding media and then streaming it over the College's LAN, using current encoding and delivery software such as QuickTime, Real, and Windows Media.

Communications Technology 381. Advanced Web Design . 2 hr. lect., 2 hrs. Lab.; 3 cr. *Prereq: CT 360.*

Advanced theories and technologies of web design. Emphasizing the need to go beyond simple web page editing, students will study template creation for managing site growth and continuity, build models for database collection of form information, and embed multimedia technologies such as audio, video, and interactivity. They will critique and analyze various types of online content, paying close attention to what makes some web sites compelling and others pedestrian. Students are expected to plan, design, and construct a well thought-out web site.

Communications Technology 385. Multimedia Interface Design. 2 hr. lect., 2 hrs. Lab.; 3 cr. *Prereq: CT 345 or CT 370 or CT 380, as required by student's concentration.*

History and study of human-computer interactions and interfaces, focusing on the graphics user interface (GUI), the usability and design process of creating an interface. Students will build an interface using current design and authoring applications such as Macromedia Flash.

Communications Technology 390. Online Communities. 3 hr. ; 3 cr. *Prereq:* CT 201

Design, evaluation, and analysis of online communities and their social, legal and educational dimensions.

Communications Technology 391. Telecommunications in Transition. 3 hr. ; 3 cr. *Prereq:* CT 390

The latest advances, issues and trends in communications technology: the Internet, new media, networks, and other emerging technologies. Concepts and practices of mobile commerce and home automation are included.

Communications Technology 401. Final Project/Senior Seminar. 3 hr; 3 cr. *Prereq:* Upper junior status and completion of 30 credits in major and Writing 303, or permission of the department. This is a Writing Intensive course.

Students work on the final project in Communications Technology in a collegial and critical environment. Students will write a thesis project proposal as an application to participate in the class. Critique sessions will include outside guests who will provide insight on current trends in media and business. Students will present final projects of professional quality for review and display on the web and in public showcases.

Communications Technology 490-491 Internship. 20 hrs./wk. fieldwork (or 300 hours/semester); 3 cr. *Prereq.* Senior status and completion of 30 credits in the major, or permission of the department.

Application of theory and competencies developed in academic courses to on-the-job settings. Under supervision of both a job-site monitor and a college faculty advisor, the student engages in a defined program at a cooperating communications company, agency or institution..

Computer Science

√ **Computer Science 172.** Introduction to Computing. 4 hrs. ; 4 cr. *Co-req:* Math 115 or 121 or 184. Not open to students with credit in Mathematics 172.

Introduction to problem solving using computer systems and software; fundamentals of structured as well as object oriented programming techniques in a high level programming language such as C++; applications in natural and social sciences, and finance. Students are expected to complete several laboratory assignments.

√ **Computer Science 261.** Data Communications I. 4 hrs. ; 4 cr. *Prereq:* Math 141, CS 172. Not open to students with credit in Mathematics 493.

Introduction to principles of data communication: modems, communications, software, controllers, industry protocols, and networks.

√ **Computer Science 291.** Introduction to Data Structures. 4 hrs.; 4 cr. *Prereq:* CS 172; *pre/co-req:* Math 141. Not open to students with credit in Mathematics 291.

Data structuring using structured variables, stacks, queues, linked

lists, and trees; recursive procedures; applications to sorting and merging. Students are expected to complete several laboratory assignments.

√ **Computer Science 292.** Introduction to Data Base Management. 4 hrs. ; 4 cr. *Prereq:* CS 172 and Mathematics 141. Not open to students with credit in Mathematics 292.

Introduction to record input/output; relational database design and implementation; the Entity-Relationship model; tables; functional dependencies; normal forms; design criteria techniques; applications. Students are expected to complete several laboratory assignments.

√ **Computer Science 300-301** Guided study of topics in Computer Science 1 hr.; 1 cr. *Prereq:* Departmental permission Independent study of selected topics in computer science under supervision of departmental faculty.

√ **Computer Science 341.** Data Structures II. 4 hours, 4 credits. *Prereqs:* Math 141 and CS 291. Analysis of algorithms, fast sorting, searching, backtracking, linked structures, recursion, priority queues, trees, graph algorithms.

√ **Computer Science 357.** Principles of Programming Languages. 4 hrs; 4 cr. *Prereq:* CS 341 Principles of programming language design; implementation of procedural, functional, and logic programming languages including syntax, binding of variables, type coercion and equivalence (including weakly typed languages); scope and extent of variables, parameter passing and environments; formal semantics. Programming projects will use programming languages which illustrate in practice the theoretical foundations.

√ **Computer Science 361.** Data Communications II. 4 hrs.; 4 cr. *Prereq:* CS 261. Not open to students with credit in Mathematics 494.

Communication parameters, protocol analysis and support, LAN/WAN structures. Troubleshooting methods, communication interfaces, network security. Printing server setup and management. TCP/IP, SLIP/PPP Connections. Dial-up Networks. These topics will be supported by a state-of-the-art computer laboratory where students can learn to setup and configure a LAN that implements these topics.

√ **Computer Science 371.** Business Programming. 4 hrs. ; 4 cr. *Prereq:* CS 291.

Concepts and methods of object oriented program development with Visual Basics as applied to modern business applications. Topics include procedures, functions, forms, ActiveX controls, files, graphical data display, Object Linking and Embedding, Dynamic Data Exchange, user interface design, and applications to spreadsheet software. Students will be expected to complete several programming assignments.

√ **Computer Science 377.** Artificial Intelligence. 3 hrs.; 3 cr. *Prereq:* CS 341 and Math 225.

Major ideas and techniques of artificial intelligence knowledge representation, reasoning, and machine learning schemes; issues

underlying the design of intelligent computational agents implementation using the Lisp programming language.

- √ **Computer Science 381.** Software Development. 4 hrs. ; 4 cr. *Prereq: Mathematics 141 or Math 225, and CS 291. Not open to students with credit in Mathematics 381.*

Software portability and reuse; overview of a design language such as Ada; object-oriented programming; exceptions handling; generics, packages; tasks and concurrency; applications of data structures and algorithm analysis. Students are expected to complete several laboratory assignments and a software project.

- √ **Computer Science 382.** Software Engineering. 3 hrs. ; 3 cr. *Prereq: CS 381. Not open to students with credit in Mathematics 382.*

The software life cycle; requirements specification; software process; prototyping; use of case tools; software testing, documentation and management; social and ethical issues; written reports and oral presentation of software projects.

- √ **Computer Science 391.** Object-Oriented Programming. 4 hrs.; 4 cr. *Prereq: CS 291.*

Introduction to object-oriented programming. Concepts of constructor, destructor, inheritance and polymorphism. Use of Object linking and embedding (OLE). Use of Dynamic Link Library (DLL).

- √ **Computer Science 392.** Database Systems. 4 hrs.; 4 cr. *Prereq: CS 341.*

Entity-Relationship model, relational algebra, relational calculus, SQL, integrity constraints, function dependencies, normalization of data, storage and file structure, transactions, concurrency control.

- √ **Computer Science 397.** Assembly Language Programming. 4 hrs.; 4 cr. *Prereq: CS 291, the equivalent or permission of instructor. Not open to students with credit in Mathematics 397.*

Computer structure, number systems, registers and addressing systems; data manipulation; related topics; assembly language programming. Students are expected to complete several laboratory assignments.

- √ **Computer Science 400-401.** Independent Study of Selected Topics in Computer Science 2 hrs.; 2 cr. *Prereq: Departmental Permission*

Independent study of selected advanced topics in computer science under supervision of departmental faculty.

- √ **Computer Science 451.** Operating Systems. 4 hrs. ; 4 cr. *Prereq: CS 397.*

Introduction to the fundamental concepts and practical issues of an operating system. Introduction to topics such as concurrency, program and process, files, critical sections and semaphores, threads, and communications.

- √ **Computer Science 452.** UNIX Operating System. 3 hrs. 3 cr; *Prereq: CS 451*

An in-depth study of the design and implementation of the UNIX operating system, the data structure of the UNIX kernel and the UNIX file system.

- √ **Computer Science 457.** Introduction to Automata and Computability. 4 hrs.; 4 cr. *Prereq: CS 291*

Propositional logic, graphs and digraphs, alphabets, languages, deterministic and nondeterministic finite automata, regular expressions, languages acceptors, grammars, Turing machines and computability.

- √ **Computer Science 461.** Network Computing. 4 hrs. ; 4 cr. *Prereq: CS 291.*

Computing in a network environment. Intranets, the server, TCP/IP, the Internet and World Wide Web (WWW), web publishing, HyperText Markup Language (HTML), Java.

- √ **Computer Science 465.** Cryptography and Network Security 3 hrs.; 3 cr. *Prereq: CS 291*

Ciphers, public and private keys, encryption and decryption, conventional encryption algorithms, modular arithmetic, Fermat and Euler theorems, RSA Algorithm, network security.

- √ **Computer Science 471.** Windows Programming. 4 hrs. ; 4 cr. *Prereq: CS 391.*

User interface designs. Responding to Windows Events. Creating and using DLL (Dynamic Link Library), DDE (Dynamic Data Exchange), OLE (Object Linking and Exchange). OLE Automation, Developing Active X Controls. Microsoft Foundation Class, Database Interfaces (ODBC and SQL programming).

- √ **Computer Science 485.** Computer Architecture 4 hrs.; 4 cr; *Prereq: CS 397.*

Logical devices and digital circuits, data representation, register transfer, central processor organization, microprogram control and organization.

- √ **Computer Science 491-499.** Advanced Topics in Computing/Information Systems Management. 2 hrs. ; 2 cr.

(CS491-492) 3hr; 3cr. (CS493-499) *Prereq: CS 291; depending on the topic offered, additional prerequisites may be determined by the department.*

Study of selected topics in Computing and/or Information Systems Management which are not covered in other course offerings, such as operating systems, case studies, exotic programming languages, compilers, microcomputer systems, integrated software, database design, networking, artificial intelligence and expert systems, computer algebra systems, etc. Students are expected to complete several laboratory assignments.

Co-op

Co-op 101. Co-op Orientation. 2 hrs.; 1 cr. *Prereq: Completion of all compensatory courses, General Education English Requirement, approval of Cooperative Education Committee; plus, for Business Administration and Marketing Majors: Accounting 101, Mathematics 115, and a computer studies course; for Information Systems Management Majors (Computer Studies): Accounting 101, Mathematics 115 and CS 172.(Prerequisites may be waived by the Assistant Dean for Career Services.)*

Introduction to the world of work; types of work environments and

personal adjustment to them; scheduling of work related activities; development of career plans; preparation of resumes; job interview skills.

Co-op 111. Work Experience and Seminar I. Minimum 225 hrs. work experience. 2 hr. seminar; 3 cr. *Prereq: Co-op 101, Speech 101, junior status, permission of Cooperative Education Committee. (Prerequisites may be waived by the Assistant Dean for Career Services.)*

Seminar associated with entry level work experience in job approved by the Cooperative Education Committee; maintenance of log and journal of work experience, analysis of work and workplace, oral and written presentation assignments, preparation of research paper related to cooperative job, firm, industry, profession, or student's career field.

Co-op 211, 311, 411. Work Experience and Seminar II, III, IV. Minimum 225 hrs. work experience. 1 hr. seminar; 3 cr. each semester; *Prereq: Co-op 111 and permission of Cooperative Education Committee.*

Seminar associated with work experience in job approved by the Cooperative Education Committee; under faculty guidance, intermediate and advanced students analyze work and workplace and prepare research report on co-op job, firm, industry, profession, or career field. Co-op 311 — In this final required seminar of the co-op sequence, special emphasis is given to issues of career choice and career changing strategies. Co-op 411 — An elective course in work experience open to students with opportunity to do significant work beyond the required terms.

Co-op 200, 300, 400. Work Experience in Science I, II, III. Minimum 225 hrs. work experience. 3 cr. each semester; *Prereq: Co-op 101 and permission of Science Co-op Committee.*

A science work experience in a position approved by the Science Co-op Committee. The work must be in the student's major field. Seminar attendance, a daily log and oral and written reports on the work experience are required.

Creole

✓ **Creole 105.** Intermediate Creole I. 3 hrs. ; 3 cr. *Prereq: Not open to students with credit in French 107 or 207.*

Course in the Haitian Creole Language covering the fundamentals of reading, writing and speaking. Emphasis will be placed on reading and writing. Not offered on a regular basis. Availability to be determined by the department.

✓ **Creole 106.** Intermediate Creole II. 3 hrs ; 3 cr. *Prereq: Creole 105 or permission of instructor.*

Development of reading and writing proficiency at the intermediate level using revision and editing techniques augmented by selected literary texts.

✓ **Creole 205.** Creole Writing and Composition. 3 hrs. ; 3 credits. *Prereq: Creole 106.*

An intensive study of Creole writing which addresses the evolving needs of Creole stylistics and composition. Assignments will

include but not be limited to summary, draft, research paper, etc.

✓ **Creole 208.** Masterpieces in Haitian Creole Literature. 3 hrs. ; 3 cr. *Prereq: Creole 106.*

The study and analysis of contemporary Creole literary works (novels, poetry & theater).

✓ **Creole 241.** Translation 1. 3 hrs. ; 3 cr. *Prereq: Creole 106 and English 125.*

This course is designed as an introduction to translation as a career; materials in specialized fields will be studied with regard to problems of style and vocabulary which occur in translation. .

Cultural Diversity

✓ **Cultural Diversity 101.** Understanding Cultural Diversity 2 hrs. lecture; 2 hrs. lab; 3 cr. *Prereq: None*

Attitudes, knowledge, and skills to foster multicultural understanding necessary to function within the community and workplace; an exploration of the nature of culture and its influence on attitudes and behavior; ethnographic study of New York City's diverse cultural groups; identification of areas for potential intercultural conflict; and the development of skills to deal positively with conflict.

✓ **Cultural Diversity 201.** Cultures and Societies of the World: Africa, Latin America and the Caribbean. 3 hrs.; 3 cr. *Prereq: Cultural Diversity 101 and English 125.*

Study of the major post WW II demographic, geo-political and societal changes in Africa, Latin America and the Caribbean. An investigation of the cultures and traditions from the pre-discovery and colonization and independence period up to the 1930's. An assessment of contemporary cultural values, beliefs, mores, religion and family structure. The impact of urbanization and industrialization on gender, race and class. An introduction to literary and artistic expressions and contributions with special attention to women writers.

✓ **Cultural Diversity 202.** Cultures and Societies of the World: The Far East and South East Asia. 3 hrs.; 3 cr. *Prereq: Cultural Diversity 101 and English 125.*

Study of the major post WW II demographic, geo-political and societal changes in China, Japan, Korea and other Southeast Asian nations. Historical and philosophical traditions including Buddhism and Confucianism and the impact of Western philosophy in traditional thought. An assessment of contemporary cultural values, beliefs, mores, religion and family structure. The impact of urbanization and industrialization on gender, race and class. An introduction to literary and artistic expressions and contributions with special attention to women writers.

✓ **Cultural Diversity 203.** Cultures and Societies of the World: Asia and the Middle East. 3 hrs.; 3 cr. *Prereq: Cultural Diversity 101.; and English 125.*

Study of the major post WWII demographic, geo-political and societal changes in India, Pakistan, Bangladesh and the Middle East. Exploration of the philosophical, historical origins and development of the regions, with emphasis on Hinduism, Islam, Buddhism

and other religious traditions. Consideration of contemporary cultural values, beliefs, mores, religions and family structure. The impact of urbanization and industrialization on caste, gender, race and class. An introduction to literary and artistic expressions and contributions with special attention to women writers.

- ✓ **Cultural Diversity 210.** Western Civilization. 3 hrs.; 3 cr. *Prereq: English 125 and Cultural Diversity 101.*

A survey course covering the thought and literature of: Biblical times, Greco-Roman times, the Middle Ages, the Renaissance, the Enlightenment and Modern Times, including accessible writing about science. Particular writings and authors may change from one to another semester, but in any one semester the same representative works from each of the above periods will be read. In addition, a list of works will be provided from which students will choose one work or group of works to read on their own. Students will write a substantial research paper analyzing the works chosen from this list.

Economics

- ✓ **Economics 101.** Elementary Economic Analysis I. 3 hrs.; 3 cr. *Prereq: ESL 130 or equivalent; Mathematics 010 or 100; Reading 110 or equivalent.*

Introduction to the principles of economic analysis, policies and institutions with emphasis on aggregate economics, including theory of income determination, monetary and fiscal policy and economic growth.

- ✓ **Economics 102.** Elementary Economic Analysis II. 3 hrs.; 3 cr. *Prereq: ESL 130 or equivalent; Mathematics 010 or 100; Reading 110 or equivalent.*

Introduction to the principles of economic analysis, policies, and institutions with emphasis on allocation of resources, trade and the distribution of income through the price system.

- ✓ **Economics 200.** Microeconomic Analysis. 3 hrs.; 3 cr. *Prereq: Economics 101 and 102.*

Analysis of market behavior of the household; the market behavior of the firm in perfect competition, monopolistic competition, oligopoly and monopoly; determination of the prices of factors of production; efficiency aspects of competitive pricing; and welfare economics.

- ✓ **Economics 210.** Macroeconomic Analysis. 3 hrs.; 3 cr. *Prereq: Economics 101 and 102.*

Analysis of the U.S. National Income and product accounts; consumption and investment; classical and Keynesian models of the determination of income, employment and prices; theory of inflation and monetary and fiscal policies for achieving full employment and price stability.

- ✓ **Economics 220.** Introduction to Economic Statistics. 2 hrs. recitation, 2 hrs. lab.; 3 cr. *Prereq: Economics 101 or 102, and Mathematics 115 or 121 or 184.* Not open to students with credit in Mathematics 113, Political Science 220, Psychology 205, 206, or Sociology 220. Accounting, Business, Marketing and other majors

requiring credit in Economic Statistics should take Economics 420 if they have credit in any of the previously listed courses.

Presentation and interpretation of statistical data, statistical inference, correlation and regression, and time series analysis.

- ✓ **Economics 300.** History of Economic Thought. 3 hrs.; 3 cr. *Prereq: Economics 101 and 102.*

The writings of contributors to the development of economic thought including Smith, Malthus, Hume, Marx, Marshall, and Ricardo.

- ✓ **Economics 310.** Public Finance. 3 hrs.; 3 cr. *Prereq: Economics 101 and 102.*

Principles of government finance, public expenditures, revenues, and indebtedness; special attention to selected tax and budgetary problems. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Economics 311.** Money and Banking. 3 hrs.; 3 cr. *Prereq: Economics 101.*

Principles and history of money and banking; major reference to the experience and problems of the United States.

- ✓ **Economics 331.** Economics of Underdeveloped Areas. 3 hrs.; 3 cr. *Prereq: Economics 101.*

Analysis of the causes of economic underdevelopment and the alternative strategies of economic development. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Economics 333.** Urban Economics. 3 hrs.; 3 cr. *Prereq: Economics 101.*

Growth of metropolitan areas; location theory; analysis of urban economic base; impact of changing technology and social structure on central cities and suburbs; effects of federal policies.

- ✓ **Economics 340.** International Economics. 3 hrs.; 3 cr. *Prereq: Economics 101 and 102.*

Economic relations among nations and geographic regions, including balance of payment accounts, foreign exchange markets, adjustment mechanisms, tariffs and the foundations of trade policies. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Economics 350.** Industrial Organization. 3 hrs.; 3 cr. *Prereq: Economics 102.*

Structure and operation of American industry including the nature and effects of corporation, output and control, characteristics of products and markets, and price policies; antitrust history and cases. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Economics 360.** Labor Economics. 3 hrs.; 3 cr. *Prereq: Economics 102.*

Supply and demand for labor, wage patterns and theories, problem of unemployment and its solutions, and effect of trade unions on wage determinations.

- ✓ **Economics 361.** Economics of Trade Unions and Collective Bargaining in the United States. 3 hrs.; 3 cr.
Prereq: Economics 102.
Economic analysis of collective bargaining, strikes, lockouts, right to work laws, feather-bedding, and pensions; evolution of trade unionism and collective bargaining in the United States.
- ✓ **Economics 420.** Advanced Economic Statistics. 3 hrs.; 3 cr.
Prereq: Economics 220 or equivalent.
Advanced analysis of the frequency distribution; central tendency, dispersion, skewness and kurtosis; small sample theory, multiple correlation and regression; construction and theory of index numbers.
- ✓ **Economics 421.** Econometrics. 3 hrs.; 3 cr. *Prereq: Economics 420 or Mathematics 113 or 211.*
The principles and applications of econometric techniques to economics and business. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Economics 390.** Independent Research. Hours arranged; 3 cr.
Prereq: Economics 220.
Investigation of a problem, determined by the student in consultation with a member of the Economics staff..

Education

- Education 269.** Theories of Bilingualism and Bilingual Education in the Urban School. 3 hrs.; 3 cr. *Prereq: Educ 281 and 283, Philosophy or Sociology 202, 6 credits of Spanish on the 200-level.*
This course is an introduction to the philosophy, fundamental principles, and current approaches of teaching bilingual students in the urban school. The completion of 14 supervised fieldwork hours in a bilingual program will be required. Sample lessons taught by each student will be videotaped and analyzed.
- ✓ **Education 280.** Child and Adolescent Development for Teachers. 3 hrs.; 3 cr. *Prereq: English 125; Co-req: Educ. 281.*
In this course, students will explore human development from childhood through adolescence within the context of history, culture, urbanization and sociopolitical conditions. Special emphasis is on the relationship between development and teaching/learning. Topics covered will include theories of physical, cognitive, and social/emotional development addressing issues such as standardized testing and assessment, special needs designations, play, and health-related factors. Psychology majors must take Psych. 215. Education 281 must be taken as a co-requisite.
- Education 281.** Field Experiences in Childhood and Adolescent Development. 1 hr. recitation, 1 hr. field work 1cr. *Co-req: Educ. 280 or Prereq/Coreq: Psy 215.*
Introduction to fieldwork in education from grades K-12. This course includes 28 hours of supervised field experience in educational environments focusing on the study of childhood and adolescent development as it relates to teaching and learning. Education 281 is a corequisite for Education 280 with the exception of students who have taken or are taking Psychology 215.
- ✓ **Education 283.** Educational Psychology: Effective Teaching and Learning. 3 hrs.; 3 cr. *Prereq: Educ 281.*
An introduction to major theories of learning and instruction. This course provides an overview of behaviorism, social and cognitive constructivism, and socio-cultural perspectives of learning. Teacher candidates will engage in critical analysis of these theories and their application to pedagogical practices in urban schools. They will critique theoretical applications to evaluate curriculum design and implementation, methods of instruction and assessment, design alternate pedagogical practices, analyze student/learner behaviors, and develop a personal teaching philosophy. Fieldwork is required.
- ✓ **Education 290.** Action Research for Educators. 2 hrs.; 2 crs. *Prereq: Educ. 280, Educ. 281, Educ. 283. Students with prior coursework in Child and Adolescent Development may be eligible for a waiver in Education 290.*
Action Research for Educators supports educators to become reflective practioners able to define, research and then address problems and issues within their practice. The course supports students working in a wide variety of educational settings to locate ideas for research within the educational communities that they work. Students define an area of study, develop and interpret data, and then draw implications for their practice.
- Education 300.** Teaching Children with Special Needs in the Regular Classroom. 4 hrs.; 3 cr. *Prereq: Education 283.*
Educational and philosophically relevant foundations of Public Law 94-142; concepts, characteristics and needs of mildly and moderately handicapped children in the regular classroom; individualized educational programs and support strategies. Field work required.
- Education 301.** Education of the Mildly Handicapped. 3 hrs.; 3 cr. *Prereq: Education 283.*
Educational and philosophically relevant foundations of Public Law 94-142; legislation and litigation pertaining to the handicapped child; concepts, characteristics and needs of mildly and moderately handicapped children in the regular classroom; assessment individualized educational programs and support strategies. Field work required.
- Education 302.** Education of the Physically Handicapped. 3 hrs.; 3 cr. *Prereq: Education 283.*
Education of children with physical and multiple handicaps and chronic medical problems. Methods and Materials, instructional designs, curriculum modifications and behavioral techniques.
- Education 303.** Nature and Educational Needs of the Mentally Retarded. 3 hrs.; 3 cr. *Prereq: Education 283.*
Definition, incidence, etiology of mental retardation; characteristics and educational needs of persons who are educable or trainable; educational counseling and training procedures. Field trips are required.
- Education 306.** Education of the Emotionally Handicapped. 3 hrs.; 3 cr. *Prereq: Education 283.*
Screening and diagnostic procedures for identifying children with emotional and behavioral disorders; methods, materials, and edu-

cational therapeutic techniques for classroom instruction. Field work required.

Education 312. Literacy Instruction and Children's Literature in the Early and Primary Years. 2 hrs. lecture, 2 hrs. laboratory; 3 cr.

Prereq: Eng 200, Educ 281 and 283, Philosophy or Sociology 202, AC 230, Writing 301 or 302 or 303, and admission to the teacher education program.

This course is designed to familiarize teacher candidates with theory and practice related to how young children develop as emergent and beginning readers. An in-depth study of children's literature and using children's literature is a secondary focus. In addition teacher candidates will be encouraged to explore and expand their personal beliefs about literacy instruction in the pre-kindergarten, kindergarten and primary grade settings. Fieldwork required.

Education 314. Content Area Literacy Instruction and Children's Literature for Beginning and Independent Readers (Grades 2-6). 2 hrs. lecture, 2 hrs. laboratory; 3 cr. *Prereq: Educ 312.*

This is part 2 of required literacy education courses for teacher candidates. Students will focus on standards-based literacy instruction and children's literature used during the literacy period and in academic content areas - science, mathematics, social studies and the arts throughout the day in grade 2-6 classrooms. Fieldwork required.

Education 317. Curriculum and Methods in Elementary Education: Science. 1 hr. lecture, 2 hrs. laboratory; 2 credits. *Prereq: English 200, Educ 281 and 283, Philosophy or Sociology 202, AC 230, completion of natural sciences general education requirements, and admission to the teacher education program.*

Teacher candidates will explore the teaching of science and relate it to the daily lives and activities of the child. Use of materials and methods that guide children into the world of science including observations, explorations, and experiments is a focus. Supervised fieldwork is a component of the course.

Education 318. Curriculum and Methods in Health and Physical Education for the Elementary School. 2 hr. lecture, 1 hr. recitation; 2 cr. *Prereq: Educ 283.* Not open to students with credit in Educ 327.

Methods and materials appropriate to plan and implement lessons and units in health and physical education for the elementary school teacher. Classroom management and safety, assessment and evaluation, integration of children with special needs. Learn to teach basic rhythmic and motor activities, sport skills, and health-related fitness concepts. Selection of culturally sensitive and functionally appropriate media and technology. Ten hours of classroom observation under the guidance of a York College faculty member.

Education 323. Curriculum and Methods in Elementary Education: Mathematics Skills. 1 hr. lecture, 2 hrs. laboratory; 2 cr. *Prereq: Math 271, Educ 281 and 283, and admission to the teacher education program.*

Activities in the classroom that help children develop insight into mathematics - both as a study in itself and as a tool for applied use; extensive review of methods and latest curriculum materials together with appropriate supporting research. Students will make site visits to area schools.

Education 327. Curriculum and Methods in Elementary School Physical Education. 3 hrs.; 3 cr. *Prereq: Educ 283 and PE 358.*

Methods of instruction to develop effective physical education programs for elementary school students. Skills in lesson planning with emphasis on unit plans, class management and safety, evaluation and grading, and integration of special need students. Teaching progression of individual and team sport skills, health-related physical fitness, and literacy in the physical education discipline. Implementing of required teaching standards into the curricula. Applying learned concepts to practice teaching. Thirty hours field observation in the elementary school supervised by York College faculty members.

Education 328. Curriculum and Methods in Secondary School Physical Education. 3 hrs.; 3 cr. *Prereq: Educ 327.*

Methods of instruction to develop effective physical education programs for secondary school students. Skills in lesson planning with emphasis on unit plans, class management and safety, evaluation and grading, and integration of special need students. Teaching progression of individual and team sport skills, health-related physical fitness, and literacy in the physical education discipline. Implementing of required teaching standards into the curricula. Applying learned concepts to practice teaching. Thirty hours field observation in secondary school supervised by York College faculty members.

Education 329. Curriculum and Methods in Teaching Health Education at the Elementary Level. 3 hrs.; 3 cr. *Prereq: Educ 283 and HE 320.*

Methods of instruction to conduct health education in the elementary school. Concepts and skills in lesson and unit planning, classroom management, safety, evaluation and grading, and integration of children with special need. Health education concepts and ideas linking choice and behavior to prevention. Sub-disciplines include child growth and development, family life, nutrition and exercise, cancer prevention, decision making, basic safety, and cultural beliefs and practices, and effects on health and well-being. Thirty hours field observation in the elementary school supervised by York College faculty members

Education 330. Curriculum and Methods in Teaching Health Education at the Secondary Level. 3 hrs.; 3 cr. *Prereq: Educ 329.*

Methods of instruction to conduct health education in the secondary school. Concepts and skills in lesson and unit planning, classroom management, safety, evaluation and grading, and integration of children with special need. Health education concepts and ideas linking choice and behavior to prevention. Sub-disciplines include child growth and development, family life, nutrition and exercise, cancer prevention, decision making, basic safety, and cultural beliefs and practices, and effects on health and well-

being. Thirty hours field observation in the elementary school supervised by York College faculty members

Education 333. Constructing Social Studies Relationships Through the Expressive Arts. 1 hr. recitation, 2 hrs. laboratory; 2 cr. *Prereq: CLDV 101 and 210, Eng 200, Hist 201, 202 or 204, Educ 281 and 283, AC 230, Philosophy or Sociology 202, and admission to the teacher education program.*

In this course teacher candidates will explore the use of the expressive arts inside social studies instruction - the study of geography, culture, economics, and history. Students will apply theoretical principles to practical application by developing integrated social studies curriculum activities that include the expressive arts.

Education 340. Literacy Instruction Inside Middle and Secondary Schools. 2 hrs. lecture, 2 hrs. laboratory; 3 cr. *Prereq: English 200, Educ 281 and 283, Philosophy or Sociology 202, AC 230, Writing 301, 302 or 303, and admission to the teacher education program.*

This required literacy education course for secondary education teacher candidates blends theoretical and developmental constructs with practical methods for developing standards-based literacy instructional strategies in content area and vocations classrooms. Emphasis is on building assessment-based strategies for literacy learning to meet the needs of all children. Students will focus on using content-based text, electronic text, and multimedia formats to encourage adolescents to respond to literature, research and process information, study effectively, and build strategies for reading.

Education 345. Teaching English as a Second Language Through the Content Areas. 3 hrs.; 2 cr. *Prereq: Educ 269, Math 271.*

This course covers theories of second language acquisition; materials to use with second language learners, and methods of teaching English as a Second Language to Spanish speaking children through the content areas. The completion of 15 hours of supervised fieldwork is required. Sample lessons taught by each student will be videotaped and analyzed.

Education 351. Teaching Reading and Spanish Language Arts in Bilingual Contexts. 3 hrs.; 3 cr. *Prereq: Educ 345, Span 209 and 308.*

In this course the theoretical and ideological foundations of teaching and learning the Spanish language in bilingual contexts are presented and analyzed. Included are: curriculum, methods, and selection of materials for teaching reading and the language arts at the elementary school level. The completion of 15 hours of supervised fieldwork is required. Sample lessons taught by each student will be videotaped and analyzed.

Education 371-381. Curriculum and Methods in the Secondary Schools. 3 hrs., 3 cr. *Prereq: Educ 283, Junior Status, and 12 credits in the student's major discipline.*

Latest curriculum materials and styles of teaching based on current theories of learning; daily and long-term planning of classroom instruction; techniques for measurement and evaluation; the

need for designing content, methods, and materials to meet individual differences. "Laboratory experiences" in schools and community provide opportunity for practical application of theory.

Education 371. Curriculum and Methods in the Secondary School: Spanish. 3 hrs., 3 cr.

Education 373. Curriculum and Methods in the Secondary School: Mathematics. 3 hrs., 3 cr.

Education 375. Curriculum and Methods in the Secondary School: Biology. 3 hrs., 3 cr. *Prereq: Educ. 283, Junior status and 12 credits in student's major discipline.*

Education 377. Curriculum and Methods in the Secondary School: Chemistry. 3 hrs., 3 cr. *Prereq: Educ. 283, Junior status and 12 credits in student's major discipline.*

Education 381. Curriculum and Methods in the Secondary School: Geology. 3 hrs., 3 cr. *Prereq: Educ. 283, Junior status and 12 credits in student's major discipline.*

Education 418-459. All student teaching courses include a weekly seminar. Two clock hours of the seminar are devoted to identification and reporting of suspected child abuse, and two clock hours of the seminar are devoted to training in school violence prevention and intervention.

Education 418. Supervised Student Teaching, Health Education in Elementary School. Grades K-6. 130 hrs., 4 cr. *Prereq: Educ 330; GPA 2.75 or better; Coreq: Educ 340.*

Guided observation and supervised student teaching in neighborhood elementary schools. The prospective teacher, in cooperation with school personnel, is given extensive experience in planning, teaching and evaluating lessons. Weekly seminars enable student teachers to discuss such issues as curriculum development, planning and managing classroom activities, teacher-pupil-community relationships, evaluating and reporting pupil progress, and the administrative responsibilities of the elementary school teacher.

Education 419. Supervised Teaching of Health Education in Secondary School. Grades 7-12. 130 hrs., 4 cr. *Prereq: Educ 418; minimum GPAs in Major, Education and overall.*

Guided observation and supervised student teaching in neighborhood secondary schools. The student teacher, in cooperation with school personnel, is given extensive experience in planning, teaching and evaluating lessons. Weekly seminars enable student teachers to discuss such issues as curriculum development, planning and managing classroom activities, teacher-pupil-community relationships, evaluating and reporting pupil progress, and the administrative responsibilities of the secondary school teacher.

Education 431. Supervised Teaching in Elementary School (Grades 1-3)*. 16 hrs/wk fieldwork; 3 cr. *Prereq: Senior status; minimum 2.75 in General and Education indices; successful completion of all Education Methods courses. Open only to students*

officially registered in the Teacher Certification Program.

Sixteen hours per week of observation and supervised teaching. Student teaching must be taken in two successive semesters. They may not be taken concurrently. Paraprofessionals must register for both courses. Full credits to be granted upon satisfactory observation in their schools by faculty members of the

Certification Program. Guided observation and supervised teaching in neighboring elementary schools. Weekly seminars enable students to discuss such issues as Curriculum Development and classroom activities.

Education 432. Supervised Teaching in Elementary School (Grades 4-6). 16 hrs/wk fieldwork; 3 cr. *Prereq: Senior status and Educ 431. Open only to students officially registered in the Teacher Certification Program.*

Sixteen hours per week of observation and supervised teaching. Student teaching must be taken in two successive semesters. They may not be taken concurrently. Paraprofessionals must register for both courses. Full credits to be granted upon satisfactory observation in their schools by faculty members of the Certification Program. Guided observation and supervised teaching in neighboring elementary schools. Weekly seminars enable students to discuss such issues as Curriculum Development and classroom activities.

Education 440-459. Supervised Teaching of Secondary Schools. 120 hrs.; 4 cr. *Prereq: Junior status; Minimum 2.75 GPAs in Major, Education and overall. Check individual courses for additional prerequisites.*

Guided observation and supervised teaching in neighboring intermediate or Junior High Schools, Grades 7-9, or Senior High Schools, Grades 10-12. The prospective teacher, in cooperation with school personnel, is given extensive experience in the planning teaching, and evaluating of lessons. Weekly seminars enable students to discuss such issues as curriculum development, planning and managing classroom activities, teacher pupil-community relationships, evaluating and reporting pupil progress, and the administrative responsibilities of the teacher.

Education 440. Supervised Teaching of Mathematics in the Intermediate or Junior High School, Grades 7-9. 120 hrs.; 4 cr. *Prereq: Educ 373; not more than 6 credits to complete in Major discipline; not more than 6 credits to complete in Education.*

Education 441. Supervised Teaching of Mathematics in the Senior High School, Grades 10-12. 120 hrs.; 4 cr. *Prereq: Educ 440.*

Education 442. Supervised Teaching of Biology and General Science in the Intermediate or Junior High School, Grades 7-9. 120 hrs.; 4 cr. *Prereq: Educ 375; not more than 6 credits to complete in Major discipline; not more than 6 credits to complete in Education. Not open to students with credit in Educ 475/476.*

Education 443. Supervised Teaching of Biology and General Science in the Senior High School, Grades 10-12. 120 hrs.; 4 cr. *Prereq: Educ 442.*

Education 444. Supervised Teaching of Chemistry and General Science in the Intermediate or Junior High School, Grades 7-9. 120 hrs.; 4 cr. *Prereq: Educ 377; not more than 6 credits to complete in Major discipline; not more than 6 credits to complete in Education.*

Education 445. Supervised Teaching of Chemistry and General Science in the Senior High School, Grades 10-12. 120 hrs.; 4 cr. *Prereq: Educ 444.*

Education 446. Supervised Teaching of Earth Science and General Science in the Intermediate or Junior High School, Grades 7-9. 120 hrs.; 4 cr. *Prereq: Educ 381; not more than 6 credits to complete in Major discipline; not more than 6 credits to complete in Education.*

Education 447. Supervised Teaching of Earth Science and General Science in the Senior High School, Grades 10-12. 120 hrs.; 4 cr. *Prereq: Educ 446.*

Education 448. Supervised Teaching of Physical Education in Elementary School. Grades K-6. 130 hrs. 4 cr. *Prereq: Educ 328; Coreq: Educ 340.*

Guided observation and supervised student teaching in neighborhood elementary schools. The prospective teacher, in cooperation with school personnel, is given extensive experience in planning, teaching and evaluating lessons. Weekly seminars enable student teachers to discuss such issues as curriculum development, planning and managing classroom activities, teacher-pupil-community relationships, evaluating and reporting pupil progress, and the administrative responsibilities of the elementary school teacher.

Education 449. Supervised Teaching of Physical Education in Secondary School. Grades 7-12. 130 hrs., 4 cr. *Prereq: Educ 448; minimum GPAs in Major, Education and overall.*

Guided observation and supervised student teaching in neighborhood secondary schools. The student teacher, in cooperation with school personnel, is given extensive experience in planning, teaching and evaluating lessons. Weekly seminars enable student teachers to discuss such issues as curriculum development, planning and managing classroom activities, teacher-pupil-community relationships, evaluating and reporting pupil progress, and the administrative responsibilities of the secondary school teacher.

Education 458. Supervised Teaching of Spanish in the Intermediate or Junior High School, Grades 7-9. 120 hrs., 4 cr. *Prereq: Educ 371.*

Education 459 Supervised Teaching of Spanish in the Senior High School, Grades 10-12. 120 hrs.; 4 cr. *Prereq: Educ 448.*

English

- ✓ **English 125.** Introduction to College Writing. 4 hrs.; 4 cr. Research, reading, and writing for college studies.
- ✓ **English 200.** Understanding Literature. 3 hrs.; 3 cr. *Prereq: English 125*
Close reading of a wide variety of literature from different periods and places, with emphasis both on developing personal response to literature and on understanding literary genres.
- ✓ **English 208.** Understanding Drama. 3 hrs.; 3 cr. *Prereq: English 200.*
An introduction to reading and viewing plays, designed to develop the student's interpretive skills and appreciation of the literature of the theater.
- ✓ **English 209.** Understanding Poetry. 3 hrs.; 3 cr. *Prereq: English 200.*
An introduction to the close reading of a variety of poems, designed to develop the student's interpretive skills and appreciation of poetry.
- ✓ **English 211.** Foundations of Western Literature. 3 hrs.; 3 cr. *Prereq: English 200.*
Selected texts from the biblical, classical, and medieval periods. Not open to students with credit in English 310.
- ✓ **English 220.** The English Tradition I. 3 hrs.; 3 cr. *Prereq: English 200.*
Major British authors from the Middle Ages through the 18th Century. Not offered on a regular basis. Availability to be determined by the department.
- ✓ **English 230.** The English Tradition II. 3 hrs.; 3 cr. *Prereq: English 200.*
Major British literature of the 19th and 20th centuries. Not offered on a regular basis. Availability to be determined by the department.
- ✓ **English 240.** The American Tradition. 3 hrs.; 3 cr. *Prereq: English 200.*
Major American literature of the 19th and 20th centuries. Not offered on a regular basis. Availability to be determined by the department.
- ✓ **English 270.** Essentials of English Grammar. 3 hrs.; 3 cr., *Prereq: English 125.*
Essentials in English grammar illustrated and practiced. Not open to students with credit for English 370.
- ✓ **English 280.** Introduction to Journalism. 3 hrs.; 3 cr. *Prereq: English 125.*
Introduction to the basics of hard newswriting and reporting; writing balanced, high-impact news pieces. The fundamentals of newspaper editing and production.
- ✓ **English 281.** Introduction to Feature Writing. 3 hrs.; 3 cr. *Prereq: English 125.*
Introduction to writing standard feature pieces and editorials for publication in newspapers or magazines. Development of the interviewing and research skills required to produce sophisticated features.
- ✓ **English 282.** Introduction to Telecommunications. 3 hrs.; 3 cr. *Prereq: English 125.*
Introduction to the theories and applications of writing for telecommunications. Audio and video techniques applied to the development of "live-on-tape" videocscripts.
- ✓ **English 286.** Introduction to Creative Writing. 3 hrs.; 3 cr. *Prereq: English 125.*
The basics of writing imaginative, technically correct short stories and poems.
- ✓ **English 298.** Special Topics in English. 3 hrs.; 3 cr. *Prereq: English 125.*
A selected topic in English studies. The topic varies with each offering.
- ✓ **English 301.** The Old Testament. 3 hrs.; 3 cr. *Prereq: English 200.*
The Old Testament as literature; its cultural relation to biblical times and its impact on the subsequent literature of the Judeo-Christian world.
- ✓ **English 302.** The New Testament and the Apocrypha. 3 hrs.; 3 cr. *Prereq: English 200.*
The New Testament and the Apocrypha as literature; their cultural relation to biblical times and their impact on the subsequent literature of the Judeo-Christian world.
- ✓ **English 311.** Literary Studies. 3 hrs.; 3 cr., *Prereq: English 200.*
A variety of reading approaches and critical theories applied to the study of literature. Not open to students with credit for English 210.
- ✓ **English 318.** Shakespeare: The Major Works. 3 hrs.; 3 cr. *Prereq: English 200.*
Selected reading of the major plays and poems.
- ✓ **English 328.** Medieval and Renaissance Literature. 3 hrs.; 3 cr. *Prereq: English 200.*
Prose, poetry and drama of the Middle Ages and the English Renaissance, including such major figures as Chaucer, Shakespeare, Donne, and Milton.
- ✓ **English 333.** Restoration and Eighteenth-Century Literature. 3 hrs.; 3 cr. *Prereq: English 200.*

Prose, poetry, and drama from 1660 through the 18th century, including such major figures as Congreve, Swift, Pope, Fielding, and Johnson.

- ✓ **English 343.** The Romantic Period in England. 3 hrs.; 3 cr. *Prereq: English 200.*

Literature of the 19th-century English Romantic movement with emphasis on poetry, including such major figures as Coleridge, Wordsworth, Byron, Shelley, and Keats.

- ✓ **English 344.** Victorian Literature. 3 hrs.; 3 cr. *Prereq: English 200.*

Literature of Victorian England; emphasis on poetry and the novel, including such major figures as Browning, Tennyson, the Brontes, Dickens, Eliot, and Hardy.

- ✓ **English 345.** Twentieth-Century British Literature. 3 hrs.; 3 cr. *Prereq: English 200.*

Major authors and movements in British Literature of the 20th century.

- ✓ **English 350.** American Voices and Visions I. 3 hrs.; 3 cr., *Prereq: English 200.*

Literature of America from the Colonial Period through the Civil War.

- ✓ **English 352.** American Voices and Visions II. 3 hrs.; 3 cr. *Prereq: English 200.*

Literature of America from the Post Civil War Period through World War II.

- ✓ **English 353.** Nineteenth-Century American Literature. 3 hrs, 3 cr. *Prereq: English 200.*

Development of American literature in the 19th Century, focusing on poetry, fiction, autobiography, and essays written by major figures such as Emerson, Douglass, Dickinson, Whitman, Alcott, Jacobs, and Twain.

- ✓ **English 355.** Twentieth-Century American Literature. 3 hrs.; 3 cr. *Prereq: English 200.*

Major 20th century American authors and poets, their historical, social, and cultural contexts.

- ✓ **English 356.** Studies in an American Literary Genre or Movement. 3 hrs.; 3 cr. *Prereq: English 200.*

Study of a literary genre, such as poetry, novel, captivity narrative, slave narrative, autobiography, essay, or short story; or study of a literary movement, such as romanticism, realism, naturalism, modernism, and post-modernism.

- ✓ **English 364.** The Tragic Vision. 3 hrs.; 3 cr. *Prereq: English 200.*

Selected readings in tragedy from ancients to moderns; emphasis on 20th century.

- ✓ **English 365.** The Comic Vision. 3 hrs.; 3 cr. *Prereq: English 200.*

Selected readings in comedy from ancients to moderns; emphasis on 20th century.

- ✓ **English 370.** Advanced English Grammar and Style. 3 hrs.; 3 cr. *Prereq: English 200 and either 270 or permission of the department.*

Grammar and punctuation; sentence and discourse patterns; aspects of usage and style illustrated and practiced.

- ✓ **English 371.** History of the English Language. 3 hrs.; 3 cr. *Prereq: English 200.*

Development of English over the centuries, as influenced by the history and experiences of English-speaking peoples. Emphasis on word histories and principles of language change.

- ✓ **English 373.** Writing for Business. 3 hrs.; 3 cr. *Prereq: English 200.*

The principles of good writing applied to business communications.

- ✓ **English 375.** English Sociolinguistics. 3 hrs.; 3 cr. *Prereq: English 200.*

The major geographical, stylistic, and social dialects of English. Special attention to bilingualism, ethnic varieties (including Black English, Irish English, Puerto Rican English and Yiddish), women's speech, and other small-group uses of English, their social status and effects on mobility.

- ✓ **English 380.** Multi-Media Journalism. 3 hrs.; 3 cr. *Prereq: English 280 or 281 or 282.*

Similarities and differences in reporting and writing for newspapers, magazines, and television. Adapting stories from one medium to another.

- ✓ **English 381.** Advanced Techniques of Journalism. 3 hrs.; 3 cr. *Prereq: English 280 or 281.*

Includes first-person, investigative journalism, and editorial techniques for print and broadcast media. Journalistic ethics, business practices, and legal principles also are explored.

- ✓ **English 382.** Non-Fiction Book Writing. 3 hrs.; 3 cr. *Prereq: English 280 or 281 or 286.*

Conceptualizing, researching, organizing and writing a professional-level non-fiction book proposal. Techniques for writing non-fiction books and negotiating a book contract.

- ✓ **English 384.** Writing for Electronic Media. 3 hrs.; 3 cr. *Prereq: English 282, or English 125 for students in the Communications Technology program.*

Writing styles, techniques, and formats used in producing scripts for a variety of electronic media.

- ✓ **English 386.** Poetry Workshop. 3 hrs.; 3 cr. *Prereq: English 286.*
An advanced workshop for poetry students aiming at publication and public readings.
- ✓ **English 387.** Short Story Workshop. 3 hrs.; 3 cr. *Prereq: English 286.*
An advanced workshop for short story and novel writers aiming at publication.
- ✓ **English 388.** Playwriting Workshop. 3 hrs.; 3 cr. *Prereq: English 286.*
An advanced workshop designed to give students a basic foundation in the theory and practice of writing for the stage.
- ✓ **English 392.** African-American Literature. 3 hrs.; 3 cr. *Prereq: English 200.*
Poetry, prose, and drama of African-American writers.
- ✓ **English 395.** Women Writers. 3 hrs.; 3 cr. *Prereq: English 200.*
An examination of works by major women writers of the past and important contemporary figures, exploring their literary themes and recent feminist criticism.
- ✓ **English 399.** Special Topics in English. 3 hrs.; 3 cr. *Prereq: English 200.*
A selected topic in English studies. The topic varies with each offering.
- ✓ **English 410.** Seminar in English: Special Topics. 3 hrs.; 3 cr. *Prereq: Writing 301.* Open to English majors who have completed 21 credits in the major (and to others by permission of the chair).
A special topic in English studies. The topic varies with each offering. May be repeated for credit with consent of advisor. *This is a Writing Intensive course.*
- ✓ **English 430.** Seminar in British Literature. 3 hrs.; 3 cr. *Prereq: Writing 301.* Open to English majors who have completed 21 credits in the major (and to others by permission of the chair).
A special topic in British literature. The topic varies with each offering. May be repeated for credit with consent of advisor. *This is a Writing Intensive course.*
- ✓ **English 450.** Seminar in American Literature. 3 hrs.; 3 cr. *Prereq: Writing 301.* Open to English majors who have completed 21 credits in the major (and to others by permission of the chair).
A special topic in American literature. The topic varies with each offering. May be repeated for credit with consent of advisor. *This is a Writing Intensive course.*
- ✓ **English 470.** Seminar in the English Language. 3 hrs.; 3 cr. *Prereq: Writing 301.* Open to English majors who have completed 21 credits in the major (and to others by permission of the chair).
A special topic in the English language. The topic varies with each offering. May be repeated for credit with consent of advisor. *This is a Writing Intensive course.*
- ✓ **English 480.** Seminar in Writing/Journalism. 3 hrs.; 3 cr. *Prereq: Writing 301.* Open to English majors who have completed 21 credits in the major and two courses in writing/journalism (and to others by permission of the chair).
A special topic related to writing or journalism. The topic varies with each offering. May be repeated for credit with consent of advisor. *This is a Writing Intensive course.*
- ✓ **English 481.** Broadcast Journalism Fieldwork. 2 hrs. lecture plus a minimum of 105 hours of work experience per semester; 3 cr. *Prereq: English 280, 282, 6 other credits from 300 level Journalism offerings, and work experience of at least 30 hours per semester for two semesters on a college-based media production or student publication (verified through office coverage schedules, attendance at meetings, and completion of assignments for publication).*
Students work for a professional broadcasting company writing videoscripts or learning production skills or acquiring research skills.
- ✓ **English 483.** Newswriting and Reporting Fieldwork. 2 hrs. lecture plus a minimum of 105 hours of work experience per semester; 3 cr. *Prereq: English 280, 282, 6 other credits from 300 level Journalism offerings, and work experience of at least 30 hours per semester for two semesters on a college-based student newspaper (verified through office coverage schedules, attendance at meetings, and completion of assignments for publication).*
Students work for a professional newspaper, magazine, or journal for bylines, or experience and college credit.
- ✓ **English 486.** Publishing Fieldwork. 2 hrs. lecture plus a minimum of 105 hours of work experience per semester; 3 cr. *Prereq: English 280, 382, 6 other credits of which 3 credits must be from 300 level Journalism offerings, and work experience of at least 30 hours per semester for two semesters on a college-based student newspaper or literary magazine (verified through office coverage schedules, attendance at meetings, and completion of assignments for publication).*
Students work for a publishing company, magazine, or journal, writing bylined articles.
- ✓ **English 490-491.** Senior Research in English. 3 hrs.; 3 cr. *Prereq: Senior status and permission of instructor.*
Intensive individually guided advanced research in English or American language and literature.
- ✓ **English 492-493.** Honors Research in English. 3 hrs.; 3 cr. each *Prereq: English 209 and 211; Writing 301; Senior status.*
A two-semester sequence open only to students with a GPA of 3.0 or higher in the major. Completion of a substantial piece of supervised individual research for honors in English.

- ✓ **English 495-496.** Independent Study in Professional or Creative Writing. Hours arranged; 3 cr. each. *Prereq: Permission of instructor and department.*

Student required to be a regular contributor to or editor of a newspaper or journal published at least bi-monthly and to submit a portfolio of published works or other indication of involvement. Or student required to be working on literary manuscript(s) — fiction, poetry, drama, criticism — judged to be of publishable merit.

- ✓ **English 497-499.** Independent Study. Hours arranged; 3 cr. each. *Prereq: Permission of instructor and department.*

Completion of a substantial piece of supervised individual research in English studies...

English as a Second Language

- ✓ **ESL 145.** Academic Reading & Writing for Non-native Speakers I. 6 hrs.; 2 cr.

Students of English as a Second Language who have achieved a high intermediate level of proficiency will acquire the basic rhetorical knowledge and writing skills necessary to meet the writing requirements of their college courses. They will also learn to use information from readings to complete assigned writing tasks.

- ✓ **ESL 150.** Academic Reading & Writing for Non-native Speakers II. 8 hrs*.; 2 cr.

Students of English as a Second Language who have achieved an advanced level of proficiency will acquire the basic knowledge and skills necessary to meet the writing requirements of their college courses. They will learn to use information from readings to complete assigned writing tasks. ESL 150 will also prepare students to take the ACT test.

**Of these 8 hours, a separate 2-hr segment will be set aside weekly to prepare students for the ACT test.*

Environmental Health Science

Health Professions EH 110. Science Technology and Environment. 3 hrs.; 3 cr. *Prereq: None.* Not credited toward fulfillment of Environmental Health Major Requirement.

Survey of important local, national and world environmental problems facing society; concepts and various biological, chemical and physical factors for a sustainable lifestyle and society, emphasizing a multidisciplinary approach with integrated overview for a comprehensive and cohesive understanding of the intricacy and legacy of environmental problems.

Health Professions EH 140. Environmental Management. 4 hrs.; 3 cr. *Prereq: None.*

The course examines man-made environmental pollution problems and possible alternatives. Topics include: energy, air and water pollution, land-use, environmental assessment, pollution evaluation and social choices.

Health Professions EH 340. Pollution Control Technology. 3 hrs.; 3 cr. *Prereq: Physics 105 and 103, HPGC 211 and 212.*

Introduction of principles and practices of environmental control technology for non-engineering students; emphasis on the control and solution of environmental problems and on the technical, legal and economic factors which dictate these solutions.

Health Professions EH 343. Environmental Physiology. 3 hrs.; 3 cr. *Prereq: HPGC 211, 212.*

The effect of environmental stress on human physiology; modes of production of disease through toxic materials in air, water and food; physical variants of temperature, air pressure, electromagnetic energy, and vibration in the production of disease state.

Health Professions EH 351. Fundamentals of Air Pollution. 3 hrs.; 3 cr. *Prereq: None.* Co-req. Chemistry 230 or 231. Not credited toward fulfillment of Chemistry 251.

Sources of air pollution; nature and impact of pollutants; methods of air sampling and monitoring; air quality standards, air pollution meteorology; dispersion equation and modeling of air pollutants in atmosphere; mobile sources; regulatory actions; air pollution abatement and technology; international effort and cooperation on reducing air pollution.

Health Professions EH 420. Water Quality Analysis and Management. 2 hrs. lecture, 4 hrs. lab.; 4 cr. *Prereq: HPEH 340, Chemistry 241.*

Water quality analysis and evaluation; principles of stream sanitation; factors relating to quality changes in surface waters; water quality changes associated with the various water uses; effects of pollutants on the receiving waters and selected beneficial uses; water quality criteria and standards; principles of water management. *Offered Fall semesters.*

Health Professions EH 424. Food Sanitation. 3 hrs.; 3 cr. *Prereq: HPGC 211, Biology 465, Chemistry 230.*

The sanitation of food production, processing and distribution; physical, chemical and biological aspects of sanitation; food packaging control, food additives, adulteration and misbranding.

Health Professions EH 425. Disease Vector Control. 6 hrs.; 4 cr. *Prereq: HPGC 211, 212.*

The public health significance of invertebrates and rodents, life cycles and role in disease transmission; environmental and chemical control of disease vectors, field sampling procedures, and control measures. Field trips to community vector control programs. *Not offered on a regular basis. Availability to be determined by the department.*

Health Professions EH 426. Solid Waste Management. 3 hrs.; 3 cr. *Prereq: HPGC211, 212, Chemistry 230*

Management, handling, storage and disposal of solid waste from the community, industry and institutions; system of collection, compaction, sanitary landfills, incineration; recycling and conversion of solid waste; public health significance of solid waste management. Field trips stress the practical application of classroom lectures.

Health Professions EH 427. Industrial Hygiene. 3 hrs.; 3 cr. *Prereq:*HPGC211, 212, Chemistry 237.

Recognition, evaluation and control of environmental courses and sources of illness in industry; regulatory administrative, and technological elements of industrial health practice will be emphasized.

Health Professions EH 428. Water Pollution Biology. 3 hrs.; 3 cr. *Prereq:*HPEH340.

The principles and procedures used to detect bacterial pollutants in waters including total coliform and "fecal" coliform; stream biology with emphasis on biology of polluted waters; consideration of bacteria, plankton, bottom organisms, and fish; discussion of toxicity and bioassay methods and biological survey techniques.

Health Professions EH 429. Environmental Management. 3 hrs.; 3 cr. *Prereq:*HPGC211, 212, Senior status.

Concepts, scope, and objectives of practicing environmental pollution controls; responsibility of personnel and organization; program planning and evaluation; legal aspects and regulatory agencies; financial and budgeting aspects; contract negotiation; labor and management relationship; emphasis of administrative and managerial skills.

Health Professions EH 430. Field Study in Environmental Health Science. 40 hrs./wk.; 6 cr. *Prereq:* Senior status, HPEH 340 and permission of Coordinator of Environmental Health Science.

Clinical internship with affiliated agencies involved with the field of Environmental Health Sciences; in-depth, supervised training in technical aspects of public, industrial, and hospital health demonstrate the broad scope of environmental health and provides valuable work experience.

Health Professions EH 498. Independent Study. Hours arranged. Minimum 6 hrs./wk.; 3 cr. *Prereq:* Permission of Instructor prior to registration. Not open to students with a combined total of 12 credits in Independent Study in the Natural Sciences Department. PASS/FAIL after 6 credits of Independent Study in Natural Sciences have been completed. A student may register for only one independent study course in the Natural Sciences Department per semester, intersession or summer session.

Individually guided study of an advanced topic in Environmental Health Science. A formal report on topic is required.

Health Professions EH 499. Independent Study. Hours arranged. Minimum 6 hrs./wk.; 3 cr. *Prereq:* Permission of Instructor prior to registration. Not open to students with a combined total of 12 credits in Independent Study in the Natural Sciences Department. PASS/FAIL after 6 credits of Independent Study in Natural Sciences have been completed. A student may register for only one independent study course in the Natural Sciences Department per semester, intersession or summer session.

Individually guided study of an advanced topic in Environmental Health Science. A formal report on topic is required.

Fine Arts

Fine Arts 100. Art for Pleasure. 2 hrs.; 2 cr. *Prereq:* None. *Not credited toward fulfillment of Studio Art or Art History major; not credited toward the Humanities Area Requirement. Open only to students in their Freshman year. Not offered on a regular basis. Availability to be determined by the department.*

The art scene explored through films, museum trips, gallery visits, Soho studio tours, slide viewing and movie going. A log, that records student reactions to these art experiences, is required.

✓ **Fine Arts 104.** Introduction to Fine Arts. 3 hrs.; 3 cr. *Prereq:* None.

Introduction to form in the visual environment and the theories concerning its creation; development of understanding of the creative processes, past and present; introduction to art criticism.

☆ **Fine Arts 150.** Visual Design: Two Dimensional. 4 hrs.; 3 cr. *Prereq:* None.

Investigation and analysis of the processes of visual communication and modes of visualization suggested by various two-dimensional materials including computer graphic output. Against a background of historical and contemporary design practices and theory and by means of problem-solving projects, students explore and develop their own unique expression. *Offered Fall semesters.*

☆ **Fine Arts 151.** Color. 4 hrs.; 3 cr. *Prereq:* None.

Introductory studies employing color; investigation of many different visual interactions and psychological effects. Some basic physics and a brief history of color theory. *Offered Spring semesters.*

☆ **Fine Arts 152.** Visual Design: Three Dimensional. 4 hrs.; 3 cr. *Prereq:* None.

Investigation and analysis of the processes of visual communication and modes of visualization suggested by various three-dimensional material. Against a background of historical and contemporary design practices and theory and by means of problem-solving projects, students engage in inventive use of these materials; emphasis is given to the development of individual design. *Offered Fall semesters.*

☆ **Fine Arts 155.** Drawing I. 4 hrs.; 3 cr. *Prereq:* None.

Introductory studies in line and light-dark contrasts. Models from nature and geometry with an emphasis on observation and control. Investigation of basic drawing systems in historical context.

☆ **Fine Arts 253.** Graphic Design I. 4 hrs.; 3 cr. *Prereq:* None.

Visual design and communication theory. Visual forms and patterns as means of graphic signification; sign, symbol, and layout; poster and book design. *Offered Fall semesters.*

☆ **Fine Arts 254.** Graphic Design II. 4 hrs.; 3 cr. *Prereq:* Fine Arts 253 or permission of department.

Visual design and communication theory. Typography and printing techniques using letterpress and silk screen. *Not offered on a regular basis. Availability to be determined by the department.*

- ☆ **Fine Arts 258.** Graphics I: Print-Making. 4 hrs.; 3 cr. *Prereq: None.*

The conceptual basis of relief-printed forms leading to initial studies with the woodcut process; investigation of several relief-print techniques in relation to the various conditions of illumination in which all objects appear. Course may include color printing employing block or screen processes. *Not offered on a regular basis. Availability to be determined by the department.*

- ☆ **Fine Arts 264.** Painting I. 4 hrs.; 3 cr. *Prereq: None.*

Techniques of painting in various mediums. *Offered Fall semesters.*

- ☆ **Fine Arts 265.** Painting II. 4 hrs.; 3 cr. *Prereq: Fine Arts 264.*

Techniques of painting in various mediums. *Offered Spring semesters.*

- ☆ **Fine Arts 273.** Sculpture I. 4 hrs.; 3 cr. *Prereq: None.*

Additional aspects of three-dimensional design in relation to one or more sculptural materials and their corresponding techniques. *Offered Spring semesters.*

- ☆ **Fine Arts 274.** Sculpture II. 4 hrs.; 3 cr. *Prereq: Fine Arts 273.*

Investigation of one or more sculptural materials and their corresponding techniques as a means of personal expression. Students investigate a variety of materials and fabricating processes. Individual guidance in mixed media, environmental, conceptual and performance art. *Offered Spring semesters.*

- ☆ **Fine Arts 283.** Visual Communication Media I. 4 hrs.; 3 cr. *Prereq: None.*

Fundamentals of film making and television production: basic exploration of the media as a visual experience and its communication potential. *Not offered on a regular basis. Availability to be determined by the department.*

- ☆ **Fine Arts 284.** Computer Graphics I. 4 hrs.; 3 cr. *Prereq: Fine Arts 150 or permission of department.*

A hands-on introduction to the systems and resources of the Macintosh computer. Investigation of the image-making and text-handling capabilities of generic software, including Adobe Illustrator, Photoshop, and Pagemaker. Development of digitized images from real life and printed sources; selected studies in type-fonts. Final projects incorporate all course material and provide a basic experience of the computer as a comprehensive design instrument.

- √ **Fine Arts 290.** Ancient Art. 3 hrs.; 3 cr. *Prereq: Fine Arts 104 or permission of department.*

Ancient architecture, sculpture, and painting from prehistoric to Roman times. *Offered Fall semesters.*

- √ **Fine Arts 291.** Art of Medieval Europe. 3 hrs.; 3 cr. *Fine Arts 104 or permission of department.*

Architecture, sculpture, and painting from early Christian through the Gothic period. *Offered Spring semesters.*

- √ **Fine Arts 292.** Early Renaissance Art. 3 hrs.; 3 cr. *Prereq: Fine Arts 104 or permission of department.*

Architecture, sculpture, and painting of the 14th and 15th centuries. *Offered Fall semesters.*

- √ **Fine Arts 293.** Visual Studies of the Urban Environment. 3 hrs.; 3 cr. *Prereq: Fine Arts 104 or permission of department.*

Our urban environment and the visual communications within it; introduction to form in the urban environment and the conditions of its creation; development of awareness of the creative process or urban design; process of form-giving in the industrialized societies. *Not offered on a regular basis. Availability to be determined by the department.*

- √ **Fine Arts 294.** Northern Renaissance Art. 3 hrs.; 3 cr. *Prereq: Fine Arts 104 or permission of instructor.*

Painting and sculpture of the 15th and 16th centuries in Northern Europe with emphasis on the work of key artists, such as the Van Eycks, Vander Weyden, Bosch, Durer, and Bruegel. *Offered Spring semesters.*

- √ **Fine Arts 296.** African Art. 3 hrs.; 3 cr. *Prereq: Fine Arts 104 or permission of department.*

The forms and historical style of African Art. *Not offered on a regular basis. Availability to be determined by the department.*

- √ **Fine Arts 297.** History of Still Photography. 3 hrs.; 3 cr. *Prereq: Fine Arts 104 or 381 or permission of department.*

Development and art of still photography as seen in the work of major photographic artists: Niepce, Daguerre, Fox, Talbot, Brady, Muybridge, Eakins, Sheeler, Strand, Stieglitz, Steichen, Riis, Hine, the relationship of photography to the plastic arts. *Not offered on regular basis. Availability to be determined by the department.*

- √ **Fine Arts 298.** Twentieth Century Trends in Photography. 3 hrs.; 3 cr. *Prereq: Fine Arts 297 or 104 or 381.*

Significant photographic movements and figures in 20th century photography with emphasis on the documentary and art aspects. Investigation of the effect of photography on contemporary thought and action and of the relation of photography to other modes of plastic expression. Field trips will be included. *Not offered on a regular basis. Availability to be determined by the department.*

- √ **Fine Arts 303.** Film History: Style and Imagination I. 2 hrs. lecture, 2 hrs. lab.; 3 cr. *Prereq: English 120 or Fine Arts 104 or permission of department. Not open to students with credit in English 303, 493 or Fine Arts 400.*

A chronological exploration, from the beginnings to the end of World War II, of the ways in which film makers have expressed their responses to the world. A feature film will be shown each week and will be discussed before and after its presentation. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Fine Arts 304.** Film History: Style and Imagination II. 2 hrs. lecture, 2 hrs. lab.; 3 cr. *Prereq: English 120 or Fine Arts 104 or permission of department. Not open to students with credit in English 304, 494 or Fine Arts 401.*

A chronological exploration, from the end of World War II to the present, of the ways in which film makers have expressed their responses to the world. A feature film will be shown each week and will be discussed before and after its presentation. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Fine Arts 325.** Women Artists. 3 hrs.; 3 cr. *Prereq: Fine Arts 104 or permission of department. Not open to students with credit in Fine Arts 478.*

Painting and sculpture by women artists from the Middle Ages through modern times. *Not offered on a regular basis. Availability to be determined by the department.*

- ☆ **Fine Arts 355.** Drawing II. 4 hrs.; 3 cr. *Prereq: Fine Arts 155 or permission of department.*

Continuation of Fine Arts 155; advanced problems. *Offered Spring semesters.*

- ☆ **Fine Arts 358.** Graphics II: Print-Making. 4 hrs.; 3 cr. *Prereq: Fine Arts 258.*

The intaglio print as an integral part of graphic formulation; investigation of classical etching ideals leading to individual modes of perceptual thinking. The relationship between drawing and print making; emphasis on the technical problems in conjunction with the need to expand and clarify the individuality of the vision. *Not offered on a regular basis. Availability to be determined by the department.*

- ☆ **Fine Arts 364.** Painting III. 4 hrs.; 3 cr. *Prereq: Fine Arts 264.*

Techniques of painting in various mediums. *Offered Spring semesters.*

- ☆ **Fine Arts 365.** Painting IV. 4 hrs.; 3 cr. *Prereq: Fine Arts 264.*

Techniques of painting in various mediums. *Offered Spring semesters.*

- ☆ **Fine Arts 373.** Sculpture III. 4 hrs.; 3 cr. *Prereq: Fine Arts 273 or permission of department.*

Investigation of one or more sculptural materials and their corresponding techniques. *See also Fine Arts 274. Not offered on a regular basis. Availability to be determined by the department.*

- ☆ **Fine Arts 374.** Sculpture IV. 4 hrs.; 3 cr. *Prereq: Fine Arts 273 or permission of department.*

Investigation of one or more sculptural materials and their corresponding techniques. *See also Fine Arts 274. Not offered on a regular basis. Availability to be determined by the department.*

- ☆ **Fine Arts 381.** Photography I. 4 hrs.; 3 cr. *Prereq: None.*

Fundamentals of photographic communication including basic shooting and darkroom techniques.

- ☆ **Fine Arts 382.** Photography II. 4 hrs.; 3 cr. *Prereq: Fine Arts 381.*

Continuation of Fine Arts 381; emphasis on the development of a personal point of view. The exploration and perfecting of various advanced photographic techniques. *Offered Spring semesters.*

- ☆ **Fine Arts 383.** Visual Communication Media II. 4 hrs.; 3 cr. *Prereq: Fine Arts 283.*

Television and film production with emphasis on the editing process. Analysis of cinemagraphic and video experiences in relation to image, light, sound, time, and motion. *Not offered on a regular basis. Availability to be determined by the department.*

- ☆ **Fine Arts 384.** Computer Graphics II. 4 hrs.; 3 cr. *Prereq: Fine Arts 284 or permission of department.*

The Macintosh computer as a specialized design instrument. Exposition of 2- and 3-dimensional material with advanced programs, including Adobe Photoshop, Illustrator, and Pagemaker. Final project requires camera-ready presentation with PageMaker.

- ☆ **Fine Arts 385.** Film Making I. 4 hrs.; 3 cr. *Prereq: Fine Arts 283.*

Development of special skill in shooting and editing to explore the visual potential of the medium. Analytical review of student and professional films. *Not offered on a regular basis. Availability to be determined by the department.*

- ☆ **Fine Arts 386.** Film Making II. 4 hrs.; 3 cr. *Prereq: Fine Arts 283.*

Development of an identity with cinemagraphic experience and its communication value; emphasis on the perceptual factors of responses to chosen ideals and situations. Analytical review of student and professional films. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Fine Arts 390.** High Renaissance and Late Sixteenth-Century Art. 3 hrs.; 3 cr. *Prereq: Fine Arts 104 or permission of department.*

Architecture, sculpture, and painting of the Italian masters of the 16th century. *Offered Spring semesters.*

- ✓ **Fine Arts 393.** American Art to 1913. 3 hrs.; 3 cr. *Prereq: Fine Arts 104 or permission of department.*

Survey of American painting, sculpture, and architecture from Colonial times to the Armory Show of 1913. Emphasis on establishing the American tradition as it relates to Western Europe and England. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Fine Arts 394.** Twentieth-Century Art in the United States. 3 hrs.; 3 cr. *Prereq: Fine Arts 104 or permission of department.*

Critical survey of American art forms from 1913 to the present. American developments from Impressionism and Post-Impressionism through the 20th century movements of Cubism, Surrealism, Abstract Expressionism, Pop, Optical, Computer, Minimal, and Conceptual Art. The introduction of photography and film as plastic arts. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Fine Arts 395.** Latin-American Art. 3 hrs.; 3 cr. *Prereq: Fine Arts 104 or permission of department.*

Architecture, sculpture, and painting in Mexico, Central and South America; Pre-Columbian styles of the New World; spread of the Spanish tradition. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Fine Arts 398.** African-American Art. 3 hrs.; 3 cr. *Prereq: Fine Arts 104 or permission of department.*

Art of Black people in the United States: its form as a significant contribution to the American scene. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Fine Arts 402.** Media, Culture, and the Visual Arts. 3 hrs.; 3 cr. *Prereq: Fine Arts 104 or permission of department.*

Impact of mass media on the contemporary arts; influential critics appearing in newspapers, magazines, popular books, and the broadcast media, together with prominent art exhibits, dance concerts, etc.; current status of the arts through mass media interpretations; television as an art form. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Fine Arts 403.** Film and the Modern Arts. 3 hrs.; 3 cr. *Prereq: Fine Arts 297 or permission of department.*

Major aesthetic movements of the modern era as they have influenced and reflected the development and achievements of cinema: Expressionism, Dada-Surrealism, Cubism, Constructivism. *Not offered on a regular basis. Availability to be determined by the department.*

- ☆ **Fine Arts 444-445.** Advanced Studio I-II. 4 hrs.; 3 cr. *Prereq: Senior status or permission of department.*

Advanced work in painting, drawing, print-making, design, photography, or sculpture. Individual programs performed within group structure; development of a particular idea or direction in substantial depth. Written statement of intention and brief plan of study required. Outside artists invited to offer critiques and lectures.

Scheduled trips to studios and exhibitions of particular interest. *Not offered on a regular basis. Availability to be determined by the department.*

- ☆ **Fine Arts 455.** Advanced Drawing I. 4 hrs.; 3 cr. *Prereq: Fine Arts 355 or permission of department.*

Investigation of basic drawing systems; the development of graphic structure. *Not offered on a regular basis. Availability to be determined by the department.*

- ☆ **Fine Arts 456.** Advanced Drawing II. 4 hrs.; 3 cr. *Prereq: Fine Arts 355 or permission of department. Not offered on a regular basis. Availability to be determined by the department.*

- ☆ **Fine Arts 463.** Painting V. 4 hrs.; 3 cr. *Prereq: Fine Arts 264.*

Techniques of painting in various mediums. *Not offered on a regular basis. Availability to be determined by the department.*

- ☆ **Fine Arts 464.** Painting VI. 4 hrs.; 3 cr. *Prereq: Fine Arts 264.*

Techniques of painting in various mediums. *Not offered on a regular basis. Availability to be determined by the department.*

lar basis. Availability to be determined by the department.

- ☆ **Fine Arts 465-469.** Special Studies; Selected Studio Area. 4 hrs.; 3 cr. each. *Prereq: Senior status; 8 credits of studio art, or permission of department.*

An intensive investigation of a selected studio problem. The area varies with each offering. Field trips may be required.

- ☆ **Fine Arts 473.** Sculpture V. 4 hrs.; 3 cr. *Prereq: Fine Arts 273 or permission of department.*

Investigation of one or more sculptural materials and their corresponding techniques. *See also Fine Arts 274. Not offered on a regular basis. Availability to be determined by the department.*

- ☆ **Fine Arts 474.** Sculpture VI. 4 hrs.; 3 cr. *Prereq: Fine Arts 273 or permission of department.*

Investigation of one or more sculptural materials and their corresponding techniques. *See also Fine Arts 274. Not offered on a regular basis. Availability to be determined by the department.*

- ☆ **Fine Arts 475-479.** Special Studies Seminar: Selected Topics in Art History. 3 hrs.; 3 cr. each. *Prereq: Senior status; 9 cr. of art history, or permission of department.*

A highly intensive study of a selected art history topic. The topic varies with each offering. Field trips may be required and outside speakers may be invited.

- ☆ **Fine Arts 481.** Photography III. 4 hrs.; 3 cr. *Prereq: Fine Arts 381.*

Continuation of individual photography problems; emphasis on broadening and strengthening of perceptual individuality. *Offered Spring semesters.*

- ☆ **Fine Arts 482.** Photography IV. 4 hrs.; 3 cr. *Prereq: Fine Arts 381.*

Independent problems; use of basic skills to develop personal statements. *Offered Spring semesters.*

- ☆ **Fine Arts 488.** Video I. 4 hrs.; 3 cr. *Prereq: Fine Arts 283.*

Function, structure and procedures of video as an art form and a teaching aid; formal program presentations. *Not offered on a regular basis. Availability to be determined by the department.*

- ☆ **Fine Arts 489.** Video II. 4 hrs.; 3 cr. *Prereq: Fine Arts 283.*

Central theory of TV, aesthetic and techniques; creative experimentation of TV as art form. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Fine Arts 490.** Twentieth-Century Art. 3 hrs.; 3 cr. *Prereq: Fine Arts 104 or permission of department.*

Architecture, sculpture, and painting in the 20th century to the present time. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Fine Arts 499.** Research in Art History. 3 hrs.; 3 cr. *Prereq: 9 credits of Art History and department approval.*

Examination of a special problem in art history and the writing of a research paper under the direction of a member of the department.

French

- French 101.** Elementary French I. 4 hrs.; 4 cr. *Prereq: None.* Not open to students with credit in French 113.
Basic principles of a beginners' course designed to give the foundation for understanding, speaking, reading and writing the language; study of simple syntax.
- ✓ **French 102.** Elementary French II. 4 hrs.; 4 cr. *Prereq: French 101 or 113, or two years of secondary school French, or by placement examination.* Not open to students with credit in French 114.
Continuation of the beginners' course; more complex grammatical structures; integrated reading and further practice in conversation.
- ✓ **French 104.** Rapid Review of Basic French. 3 hrs.; 3 cr. *Prereq: French 102.* Not credited toward fulfillment of French Major. Not open to students with credit in French 105 or above.
A refresher course of basic French grammar and reading integrating the use of tapes and laboratory materials. Designed for students who wish to reinforce their basic knowledge of the language and for native speakers who have not studied French syntax. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **French 105.** Intermediate French I. 3 hrs.; 3 cr. *Prereq: French 102 or 114.*
Intensive oral-aural practice based on selected readings; functional review of grammar. *Offered Spring semesters.*
- ✓ **French 106.** Intermediate French II. 3 hrs.; 3 cr. *Prereq: French 105 or 4 years of secondary school French or by placement exam.*
Development of reading and writing proficiency in the intermediate level using revision and editing techniques augmented by selected literary texts.
- ✓ **French 113.** Elementary French I. 3 hrs.; 3 cr. *Prereq: None.* Not open to students with credit in French 101.
Beginners' course designed to give a broad basis for speaking, reading and writing the language. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **French 114.** Elementary French II. 3 hrs.; 3 cr. *Prereq: French 101, 110 or 113.* Not open to students with credit in French 102.
Continuation of beginners' course; more complex grammatical structures; integrated reading and further practice in conversation. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **French 115.** Elementary Conversation. 2 hrs.; 2 cr. *Prereq: French 101 or 113.* Not open to students with credit in French 213.
For non-native speakers; practice in language used in daily conversation. *Not offered on a regular basis. Availability to be determined by the department.*
NOTE: Courses numbered 200 and above are normally conducted entirely in French, except when otherwise indicated. These courses are credited towards fulfillment of French major requirements.
- ✓ **French 200.** Commercial French I. 3 hrs.; 3 cr. *Prereq: French 105 or native speaker.*
Specialized language used in the French world of commerce; composing and translating business letters, commercial documents and import-export terminology. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **French 206.** Introduction to Haitian Literature. 3 hrs.; 3 cr. *Prereq: French 106 or permission of the department.*
Novel, drama and poetry of the twentieth century in Haiti. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **French 210.** Introduction to Literary Theory & Analysis. 3 hrs.; 3 cr. *Prereq: French 106.*
An introduction through close reading of selected texts to a variety of reading approaches and critical methodology central to the study of literature.
- ✓ **French 212.** Phonetics. 3 hrs.; 3 cr. *Prereq: French 106 or permission of department.*
Systematic study of French sounds and intonation; intensive oral practice. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **French 213.** Intermediate Conversation. 3 hrs.; 3 cr. *Prereq: French 105*
For non-native speakers wishing to increase fluency and accuracy in French; based on readings related to situations in modern life. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **French 217.** Advanced Grammar and Composition. 3 hrs.; 3 cr. *Prereq: French 106*
An intensive study of the French grammar which addresses the evolving needs of French stylistics and composition. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **French 220.** Masterpieces of French Literature from the Middle Ages to the 20th Century. 3 hrs.; 3 cr. *Prereq: French 106.*
Survey of the scope and variety of French literature from the Middle Ages up to the 20th century. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **French 221.** French Literature from the Middle Ages to the Revolution in Translation. 3 hrs.; 3 cr. *Prereq: Sophomore status or permission of instructor.* Not credited toward fulfillment of French major requirements. Not open to students with credit in French 325, 326, 330 or 333.
Major works of French literature through the Revolutionary period. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **French 225.** Commercial French II. 3 hrs.; 3 cr. *Prereq: French 200 or permission of department.*

Emphasis on translation of documents, business related materials and newspaper articles, materials obtained from banks, export and import companies, stock exchange and custom offices dealing with French business transactions. The student will be exposed to a wide range of French commercial terminology. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **French 226.** French & Francophone Women's Writing. 3 hrs.; 3 cr. *Prereq: English 125*

Introduces students to significant literature written by women of the French and Francophone speaking world.

French 240. Translation I. 3 hrs.; 3 cr. *Prereq: French 106 or native speaker or permission of department and completion of Instrumental English requirement.*

The first of a two-semester sequence designed as an introduction to translation as a career; materials in specialized fields are studied with regard to problems of style and vocabulary which occur in translation. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **French 241.** Translation II. 3 hrs.; 3 cr. *Prereq: French 240 or permission of instructor.*

Continuation of French 240; more extensive translation of commercial, journalistic, literary and scientific texts. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **French 313.** History of the French Language. 3 hrs.; 3 cr. *Prereq: French 106 or permission of department.*

The evolution of the French language against a background of political, economic and social developments. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **French 323.** The Novel in the Nineteenth Century. 3 hrs.; 3 cr. *Prereq: French 106 or permission of department.*

Representative works of fiction; emphasis on Stendhal, Balzac, Flaubert and Zola. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **French 324.** Nineteenth-Century Poetry and Theater. 3 hrs.; 3 cr. *Prereq: French 106.*

Romantic, Parnassian, and Symbolist poets and some dramatists of the 19th century. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **French 325.** The Age of Enlightenment. 3 hrs.; 3 cr. *Prereq: French 106.* Not open to students with credit in French 221.

Theater, novel, and works of the "Philosophes" (Montesquieu, Voltaire, Diderot, Rousseau) in relation to the political and social thought of the 18th century. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **French 327.** The Twentieth-Century Novel and Theater I. 3 hrs.; 3 cr. *Prereq: French 106.* Not open to students with credit in French 222.

Major French novelists and dramatists of the 20th century; con-

centration on works published before 1945. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **French 328.** The Twentieth-Century Novel and Theater II. 3 hrs.; 3 cr. *Prereq: French 106.* Not open to students with credit in French 222.

Major French novelists and dramatists of the 20th century; concentration on works published after 1945. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **French 329.** Twentieth-Century Poetry. 3 hrs.; 3 cr. *Prereq: French 106.* Not open to students with credit in French 222.

Major contemporary French poets. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **French 330.** The Age of Classicism. 3 hrs.; 3 cr. *Prereq: French 106.* Not open to students with credit in French 221.

Study of the best known writers of the 17th century; philosophers, moralists, dramatists. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **French 333.** Masterpieces of the Middle Ages and the Sixteenth Century. 3 hrs.; 3 cr. *Prereq: French 106.* Not open to students with credit in French 221.

Literature of the period; poetry, theater, and prose. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **French 334.** Literature of the French West Indies. 3 hrs.; 3 cr. *Prereq: French 106.*

A survey of the best known writers from Haiti, Martinique, Guadeloupe, and French Guyana. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **French 335.** Literature of French Speaking Africa. 3 hrs.; 3 cr. *Prereq: French 106.*

Best known writers of Senegal, Cameroon, Guinee, Cote d'Ivoire, and Madagascar and other writers emphasizing "negritude" and revolt. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **French 338.** Love in French Literature. 3 hrs.; 3 cr. *Prereq: Any French literature course at the 200-level. (except French 213).*

Readings and discussions of masterpieces of various poetry, novels, letters, and plays with love as their main or only theme. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **French 340.** Advanced Conversation. 3 hrs.; 3 cr. *Prereq: French 213 and another 200-level French course.*

For non-native speakers wishing to increase fluency and accuracy in French at the advanced level. Based on articles of current interest. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **French 362-363.** Themes in French Literature. 3 hrs.; 3 cr. each. *Prereq: French 106.*

An examination of a significant theme as revealed in French literature. Topic varies with each offering. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **French 381.** French Society and Civilization. 3 hrs.; 3 cr. *Prereq: French 106.*

The culture and civilization of France against an historical background. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **French 382.** Haitian Culture & Civilization. 3 hrs.; 3 cr. *Prereq: French 106 or permission of department.*

A course comparing Haitian with other French-speaking cultures of the Caribbean; further stress on the Haitian Revolution and the role of Haiti as a Pan-African inspirational phenomenon. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **French 400.** Senior Seminar. 3 hrs.; 3 cr. *Prereq: French 106.*

Individual study under the supervision of a member of the French faculty. *Not offered on a regular basis. Availability to be determined by the department.*

Geography

- ✓ **Geography 112.** Geography of the New World. 3hrs.; 3 cr. *Prereq: None.* Not credited toward fulfillment of Natural Science requirement.

A detailed study of the United States, Canada, Mexico as well as the countries of Central and South America, and the Caribbean region. The interrelationships of the natural resources, climate, agriculture, industry and populations will be emphasized. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Geography 114.** Geography of the Old World. 3 hrs.; 3 cr. *Prereq: None.* Not credited toward fulfillment of Natural Science requirement.

A systematic study of three continents: Europe, Asia and Africa. The interrelationships of the natural resources, climate, agriculture, industry, and populations will be emphasized. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Geography 271.** Principles of Physical and Economic Geography. 3 hrs.; 3 cr. *Prereq: None.* Not credited towards fulfillment of Natural Science requirement.

The influence of physical factors such as weather and climate on man's geographic environment, and the effect of this environment on economic activity and development. *Not offered on a regular basis. Availability to be determined by the department.*

Geology

- ✓ **Geology 110.** Man and the Earth. 3 hrs.; 3 cr. *Prereq: None. (Not open to students with credit in Geology 140)*

An introduction to the earth environment and its relationship to human affairs; earthquakes, volcanic activity, land use and abuse, geologic time, rocks and minerals. A one day field trip is required. This course, when combined with Geology 207 counts as a lecture-laboratory course of 4 credits.

- ✓ **Geology 115.** Energy, Resources and the Environment. 3 hrs.; 3 cr. *Prereq: None.* Not credited toward fulfillment of Geology major requirements.

An introduction to the availability, distribution, recovery and significance of the earth's natural resources. alternates to our dwindling supply of these resources, with emphasis on the fossil fuels. Environmental impact of the use and disposal of these resources will be analyzed. The interaction of the various disciplines of natural science will be stressed.

- ✓ **Geology 120.** Our Oceanic Environment. 3 hrs.; 3 cr. *Prereq: None.* Not credited toward fulfillment of geology major requirements.

Introduction to the 71 per cent of the earth's surface covered by water. The oceans; our climatic thermostat, a not-so-inexhaustible resource, and their management and preservation. One day field trip required.

- ✓ **Geology 121.** History of Life. 3 hrs.; 3 cr. *Prereq: None.* Not credited toward fulfillment of geology major requirements.

A survey of major events in the history of life on earth, from its origin over three billion years ago, to the appearance of man. Patterns of evolution, extinction and replacement of plant and animal groups as responses to ancient environmental changes. A one day field trip is required.

- ✓ **Geology 140.** Our Earth. 4 hrs.; 3 cr. *Prereq: None. Not open to student with credit in Geology 110 or 207.*

This course provides an introduction to the geologic environment and its relationship to human affairs; volcanic activities, earthquakes, landscapes, land use and abuse, the earth through time, recognition of minerals, rocks and fossils, maps and aerial photographs. A museum visit and a one-day trip are required.

- ✓ **Geology 207.** Geologic Techniques. 2 hrs. lab.; 1 cr. *Prereq/Coreq: Geology 110.* Not open to students with credit in Geology 111.

Field and laboratory techniques in geology; field identification of common rocks and minerals; introduction to aerial photographs, topographic and geologic maps. Two field trips required.

- ✓ **Geology 211.** Structural Geology. 2 hrs. lecture, 4 hrs. lab.; 4 cr. *Prereq: Geology 110 and 207 or Geology 140.*

The structural features of stratified and massive rock bodies; mechanics and dynamics of rock deformation; geologic mapping of structural features and the interpretation of such features from existing maps. Two field trips required. *Offered Spring semesters.*

- √ **Geology 213.** Paleontology. 2 hrs. lecture, 3 hrs. lab.; 3.5 cr. *Prereq: Geology 110 or 140 or permission of instructor.*

The study, classification, distribution and evolutionary trends of the common invertebrate fossils groups. Field trip required. *Offered Fall semesters.*

- √ **Geology 225.** Mineralogy. 3 hrs. lecture, 4 hrs. lab.; 5 cr. *Prereq: Geology 110 or 140.* Not open to students with credit in Geology 222 and 223.

Principles of crystal symmetry and structure, physical and chemical properties of minerals; mineral identification procedures, descriptive mineralogy.

- √ **Geology 282.** Weather and Climate. 2 hrs. Lecture; 2 hrs. Laboratory; 3 cr. *Prereq: Completion of Natural Science General Education Program requirement.*

An introduction to the earth's atmosphere, its structure, composition and evolution. Climatology, including the Greenhouse Effect and Global Warming. Atmospheric phenomena, weather, acid rain and the degradation of the ozone layer. Laboratory work includes; collection of data from an on-site weather station and on the internet, computer models of atmospheric processes.

- √ **Geology 305.** Earth History. 2 hrs. lecture; 2 hrs. lab.; 3 cr. *Prereq: Geology 211 and 213.*

Geologic time scale, the fossil record, and evolution as basis for reconstruction of earth history; cosmopolitan world view but with emphasis on the origin and evolution of North America; concepts of sea-floor spreading and plate tectonics. Laboratory work includes interpretation of geologic sections. Field trip required. *Offered Spring semesters.*

- √ **Geology 308.** Geomorphology. 2 hrs. lecture, 2 hrs. lab.; 3 cr. *Prereq: Geology 211.*

Descriptive and analytical study of the surface features of the earth. Special emphasis given to steam hydraulics, map and aerial photo interpretation of land forms. Two field trips required. *Offered alternate years.*

- √ **Geology 323.** Field Methods. 3 hrs. lab.; 1.5 cr. *Prereq: Geology 211.* Not open to students with credit in Geology 322.

Use of the Brunton Compass, telescopic alidade, and planetable. Two field trips required. *Offered alternate years.*

- √ **Geology 326.** Petrology with Optical Mineralogy. 3 hrs. lecture, 4 hrs. lab., 1 hr. fieldwork; 5 cr. *Prereq: Geology 225. Coreq: Chemistry 101.* Not open to students with credit in Geology 333.

This course deals with the identification of common rock forming minerals in thin sections; the principles of optical mineralogy; and the origin, description and identification of igneous, sedimentary and metamorphic rocks.

- √ **Geology 340.** Remote Sensing and Air Photo Interpretation 1 hr. lecture, 2 hrs. lab.; 2 cr. *Prereq: Geology 110 or 140 and Mathematics 101.*

A survey of the various remote sensing techniques; fundamentals

of photogrammetry; interpretation of geologic, geographic and economic features as seen as aerial photographs. A one day field trip is required. *Offered alternate years.*

- √ **Geology 341.** Ground Water Hydrology. 2 hrs.; 2 cr. *Prereq: Geology 110 or 140 and Mathematics 121.*

The occurrence and movement of ground water; ground water location, evaluation and development; the influence of mankind on the ground water regime. A one day field trip is required. *Offered alternate years.*

- √ **Geology 342.** Rock and Soil Mechanics. 1 hr. lecture, 2 hrs. lab.; 2 cr. *Prereq: Geology 211 and Trigonometry.*

Rock and soil mechanics as applied to problems in construction, land development, and slope stability; emphasis on landsliding and surface subsidence problems. A one day field trip is required. *Offered alternate years.*

- √ **Geology 343.** Ore Deposits and Ore Evaluation. 1 hr. lecture, 2 hrs. lab.; 2 cr. *Prereq: Geology 225.*

The origin, form of occurrence, and distribution of the useful metallic minerals of the earth; methods of ore evaluation and beneficiation; preparation of polished ore sections; identification of opaque minerals and study of their textural relationships. A one day field trip is required. *Offered alternate years.*

- √ **Geology 344** Industrial Minerals and Fossil Fuels. 1 hr. lecture, 2 hrs. lab.; 2 cr. *Prereq: Geology 225.*

Study of the deposits of useful non-metallic minerals, building materials, coal, petroleum and natural gas; environmental problems related to the use and extraction of fossil fuels; nuclear energy materials; identification and testing of industrial minerals and building materials. A one day field trip is required. *Offered alternate years.*

- √ **Geology 346.** Laboratory Techniques in Geology. 1 hr. lecture, 2 hrs. lab.; 2 cr. *Prereq: Geology 110 or 140 and 225.*

Introduction to instrumental techniques used in mineral and rock analysis and identification; water analysis, optical spectroscopy, atomic absorption spectroscopy, flame photometry, differential thermal analysis, x-ray diffraction powder methods, and radiometric techniques. Geologic evaluation and presentation of data. *Offered alternate years.*

- √ **Geology 349.** Assessment of Environmental Impact. 1 hr.; 1 cr. *Prereq: Geology 110 or 140.* Not credited toward fulfillment of Science Area Requirements.

A systematic approach to the evaluation of the magnitude and importance of the most probable consequences of activities proposed, in a given environmental scenario; emphasis on matrix techniques and desirable formats for the presentation of results. A one day field trip is required. *Offered alternate years.*

- √ **Geology 403.** Paleocology. 2 hrs. lecture, 2 hrs. lab.; 3 cr. *Prereq: Geology 213 or permission of instructor.*

Techniques and principles for interpreting fossil communities in terms of age and environment; paleontologic and evolutionary fea-

- tures which distinguished major units in the geological time scale. Field trip required. *Offered alternate years.*
- ✓ **Geology 411.** Sedimentation. 2 hrs. lecture, 2 hrs. lab.; 3 cr. *Prereq: Geology 232.*
Dynamics of sedimentation; depositional environments, diagenesis and lithification, sedimentary structure; classification and description of sediments and sedimentary rocks; mechanical, chemical, and microscopic analysis of sediments. Two field trips required. *Offered alternate years.*
- ✓ **Geology 412.** Stratigraphy. 2 hrs. lecture, 2 hrs. lab.; 3 cr. *Prereq: Geology 211 and 213 or permission of instructor.*
Principles of stratigraphic classification, lithofacies and biofacies, faunal zonation, correlation and paleogeography illustrated by stratigraphy of classical geologic regions throughout the entire geologic time scale. Two field trips required. *Offered alternate years.*
- ✓ **Geology 425.** Field Mapping. 120 hours of field work or lab.; expenses usually \$275.00; 4 cr. *Prereq: Geology 323.* Not open to students with credit in Geology 424.
Three weeks of intensive field mapping in the Folded Appalachian Mountains; measurements of stratigraphic sections and the preparation of geologic maps and sections by means of Brunton Compass, aerial photographs and topographic base maps of the selected areas. A final professional style report is required. *Offered alternate years.*
- ✓ **Geology 441.** Geochemistry. 2 hrs. lecture, 2 hrs. lab.; 3 cr. *Prereq: Geology 333.*
Survey of geochemical principles and techniques; distribution and migration of the chemical elements within the earth; radio-active and stable isotopes in geology. Field trip required. *Offered alternate years.*
- ✓ **Geology 442.** Geophysics. 2 hrs. lecture, 2 hrs. lab.; 3 cr. *Prereq: Geology 211 and Physics 104 and 108 or 106.*
Basic concepts of geophysics and geophysical exploration; emphasis on seismology, magnetic and gravitational studies. Survey of the physical aspects of the structure of the earth as a whole. Two field trips required. *Offered alternate years.*
- ✓ **Geology 490.** Senior Seminar in Geology. Hours arranged; 3 cr. *Prereq: Senior status in Geology.*
Synthesis of geologic concepts and techniques and discussion of current geologic theories. Discussion led by Geology faculty. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Geology 496.*** Independent Study. 4 hrs.; 2 cr. *Prereq: Permission of instructor prior to registration.*
Independent Study or research on advanced topics under the supervision of a member of the faculty. Field trips may be required. A formal report on topic is required.
- ✓ **Geology 497.*** Independent Study. 6 hrs.; 3 cr. *Prereq: Permission of instructor prior to registration.*
Independent Study or research on advanced topics under the supervision of a member of the faculty. Field trips may be required. A formal report on topic is required.
- ✓ **Geology 498.*** Independent Study. Hours arranged; Minimum 4 hrs./wk.; 2 cr. *Prereq: Permission of instructor prior to registration.*
Individual research on advanced topics under the supervision of a member of the faculty. Field trips may be required. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Geology 499.*** Independent Study. Hours arranged; Minimum 6 hrs./wk.; 3 cr. *Prereq: Permission of instructor prior to registration.*
Individual research on advanced topics under the supervision of a member of the faculty. Field trips may be required. A formal report on topic is required.
- * *Not open to students with a combined total of 12 credits in Independent Study in the Natural Sciences Department. PASS/FAIL after 6 credits of Independent Study in Natural Sciences have been completed. A student may register for only one independent study course in the Natural Sciences Department per semester, intersession or summer session.*

German

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- ✓ **German 101.** Elementary German I. 4 hrs.; 4 cr. *Prereq: None.* Not open to students with credit in German 113. *Offered when the demand exists.*
- ✓ **German 102.** Elementary German II. 4 hrs.; 4 cr. *Prereq: German 101 or 113, or two years of secondary school German, or by placement examination.* Not open to students with credits in German 111 or 114. *Offered when the demand exists.*
- ✓ **German 105.** Intermediate German I. 3 hrs.; 3 cr. *Prereq: German 102 or 114.* *Offered when the demand exists:*
- ✓ **German 106.** Intermediate German II. 3 hrs.; 3 cr. *Prereq: German 105.* *Offered when the demand exists.*
- ✓ **German 128.** Scientific German I. 3 hrs.; 3 cr. *Prereq: None.*
A concentrated course designed for students who wish to acquire rapidly the skill of reading and translating German, particularly in the fields of the natural and social sciences and technology. Selective survey of grammar and reading of expository texts of limited difficulty. *Offered when the demand exists.*
- ✓ **German 129.** Scientific German II. 3 hrs.; 3 cr. *Prereq: German 128 or placement examination.*
Continuation of German 128. Extensive reading and translation of texts of advanced difficulty. Review of special problems in reading expository German. *Offered when the demand exists.*

Gerontology

- ✓ **Gerontology 101.** Introduction to Gerontology I. 3 hrs.; 3 cr. *Prereq: None*
Interdisciplinary view of the field of gerontology with emphasis on perspectives offered by anthropology, biology, health and physical education, political science and sociology.
- ✓ **Gerontology 201.** Intermediate Gerontology II. 3 hrs.; 3 cr. *Prereq: Gerontology 101 or permission of the instructor.*
Interdisciplinary view of the field of gerontology emphasizing the special contributions of psychology and social work. Particular attention giving to the moral and legal issues surrounding long term care, advanced directives, and end of life health care.
- ✓ **Gerontology 301.** Wellness and the Elderly: Programs and Services 3 hrs. lecture; 3 cr. *Prereq: Junior Status* Not open to students with credit in HE 330.
Examination of physical, mental, environmental, cultural and spiritual factors which support optimal levels of wellness for the elderly. Students will identify and examine a range of gerontological health promotion, educational programs and services available to the elderly.

Greek

- ✓ **Greek 101.** Elementary Greek I. 4 hrs; 4 cr; *Prereq: None*
Basic principles of a beginner's course; designed to give the foundations of the language.
- ✓ **Greek 102.** Elementary Greek II. 4hrs; 4 cr; *Prereq: Greek 101*
Continuation of the beginner's course; more complex grammatical structures, integrated readings and further practice in conversation.

Health Education

- ☆ **Health Education 111.** Personal Health Issues. 3 hrs.; 3 cr. *Prereq: None.* Not open to students with 6 or more credits in Health Education. Not open to students with credit in Health Education 110. Not credited towards Health Education major requirements.
Self assessment of personal health behavior in the areas of cardiovascular health, stress, sex and sexuality, substance abuse, nutrition, etc.; information and strategies for the reduction of personal health risk. *Not offered on a regular basis. Availability to be determined by the department.*
- ☆ **Health Education 200.** Basic Cardiac Life Support. 1 hr.; 1 cr. *Prereq: None.*
The theoretical and practical aspects of basic cardiac life support; strategies for prevention of unnecessary death from heart disease including risk-factor modification, recognition of early warning signs, and management of ventilatory and/or cardiac arrest. Certified according to standards from The American Heart Association for Rescuers.

- ☆ **Health Education 211.** Stress and Health. 2 hrs.; 2 cr. *Prereq: None.* Not open to students with credit in HE 491 Seminar: Stress and Health.
The causes of stress and its relationship to health; self-help techniques for managing stress and tension.
- ☆ **Health Education 241.** Sex and Sexuality. 3 hrs.; 3 cr. *Prereq: None.*
Physiology aspects of human sexuality, cross cultural patterns, changing sexual roles, sexuality and the law, premarital behavior, marriage and the family.
- ☆ **Health Education 312.** Health and Disease. 3 hrs.; 3 cr. *Prereq: None.*
The nature of communicable and degenerative diseases, with emphasis on agencies, principles and techniques of prevention and control.
- ☆ **Health Education 313.** Alcohol and Alcoholism. 3 hrs.; 3 cr. *Prereq: None.*
Physiological, psychological and sociological changes which result from alcohol use and abuse, emphasis on the cause, treatment and prevention of alcoholism and alcohol abuse.
- ☆ **Health Education 314.** Nutrition and Health. 2 hrs.; 2 cr. *Prereq: None.*
The relationship of foods and nutrition to personal health and health problems, such as weight control.
- ☆ **Health Education 315.** Health and the Consumer. 2 hrs.; 2 cr. *Prereq: None.*
Selection, evaluation and understanding of health information, medical services, health products, and advertising; socio-cultural factors in health protection; the role of government and voluntary agencies in the field of health protection.
- ☆ **Health Education 316.** Family Health. 3 hrs.; 3 cr. *Prereq: None.*
The physical, social, and emotional aspects of health in relationship to the life cycle within the family.
- ☆ **Health Education 317.** First Aid and Safety Education. 2 hrs.; 2 cr. *Prereq: None.*
First aid techniques leading to American Red Cross Certification; prevention and care of athletic injuries; principles and problems of safety in relation to the home, school, and community.
- ☆ **Health Education 319.** Health Services. 3 hrs.; 3 cr. *Prereq: None.*
Not open to students with credit in Health Education 322.
Health services in school and community settings; a review of the health delivery system with implications for health education programs.
- ☆ **Health Education 320.** Program Planning. 3 hrs.; 3 cr. *Prereq: Health Education 323, 324 and 319 (HE Majors), or 488 (HPM Majors), or Gero 301 (Gero Majors).*
The theoretical design of a health/gerontological education pro-

gram; includes needs assessment, target group description, problem analysis, development of appropriate objectives, educational intervention, and the identification of resources.

- ☆ **Health Education 321.** Health Counseling. 3 hrs.; 3 cr. *Prereq: Health Education 323 and 324 and either Psychology 215 and 216 for Community Health majors, or Education 280 & Education 281 for School Health K-12.*

Theory and practice of individual and group health counseling as applied to weight control, drug abuse, smoking, birth control, and other personal health problems.

- ☆ **Health Education 323.** Health Behavior. 2 hrs.; 2 cr. *Prereq: Completion of Behavioral Science Area Requirements. Coreq: Health Education 324.*

Factors influencing health choices and decision making. Examination of theoretical models for effecting health behavior change.

- ☆ **Health Education 324.** Laboratory in Health Behavior. 2 hrs. lab.; 1 cr. *Prereq: Completion of Behavioral Science Area Requirements; Coreq: Health Education 323.*

Students participate in the design and application of various models for health behavior change.

Health Education 341. HIV/AIDS: Public Health Implications. 3 hrs.; 3 cr. *Prereq: English 125.*

The course will examine the HIV/AIDS epidemic, political and legal issues, clinical interventions, prevention, health education, management and public health implications. Students also will learn about the impact of the epidemic on the individual, family and society.

- ☆ **Health Education 342.** Drug Use and Abuse. 3 hrs.; 3 cr. *Prereq: None.*

Historical, pharmacological, legal, and psycho-social aspects of drug use and abuse; the roles of the individual and society in dealing with current problems. Seminar approach used extensively.

Health Education 363. Measurement and evaluation in Health and Physical Education 3 cr., 3hr., *Pre-req: Math 111.* Not open to students with credit in PE 363

Nature and purpose of measurement in health and physical education; analysis of pertinent test and their use in evaluating performance in these areas.

- ☆ **Health Education 420.** Alcoholism Counseling. 3 hrs.; 3 cr. *Prereq: Health Education 313 and 321.*

The development and application of health counseling skills when working with alcoholics, alcohol abusers and their families in varied educational and therapeutic settings.

- ☆ **Health Education 450.** Practicum in Health Education. 2 hrs.; 2 cr. *Coreq: Health Education 471 or 472.*

Development of leadership skills in health education.

- ☆ **Health Education 452.** Cardiovascular Fitness. 2 hrs. lecture, 2 hrs. lab.; 3 crs.; *Prereq: Physical Education 358 or permission of instructor.* Not open to students with credit in Physical Education 452. Students registering for this course are advised to register for 2 credits of field work in health or physical education.

The physiological and psycho-social aspects of cardiovascular fitness; status of heart disease and preventive programs, exercise stress testing, exercise prescription, and conduct of fitness activities. *Not offered on a regular basis. Availability to be determined by the department.*

Health Education 471-472. Field Work in Health Education. 2 hrs.; 1 cr. each. *Prereq: Written permission by Health Education faculty prior to registration.*

A supervised field experience in health education affording the opportunity for intensive work in one of a variety of community health settings.

Health Education 473-474. Field Work in Health Education. 4 hrs.; 2 cr. each. *Prereq: Health Education 320, 321 and written permission by Health Education faculty prior to registration.*

A supervised field experience in health education affording the opportunity for intensive work in one of a variety of community health settings.

- ☆ **Health Education 481.** Organization and Administration of Health Education. 3 hrs.; 3 cr. *Prereq: Health Education 320.* Not open to students with credit in Physical Education 481 or 482.

Organization, administration, and evaluation of health education programs; problems, policies, practices, methods, and legal aspects of the programs. The coordination of school and community programs with emphasis on the inner city.

- ☆ **Health Education 487.** Adult Fitness Program. 3 hrs.; 3 cr. *Prereq: Junior status in departmental major.*

Planning, designing, managing and evaluating adult fitness programs.

- ☆ **Health Education 488.** Health Promotion in the Workplace. 3 hrs.; 3 cr. *Prereq: Permission of Instructor. Coreq: One credit in either Field Work or Independent Study.*

Planning and implementation for Health Promotion guidelines for programs in stress management, weight control, smoking cessation, anti-substance dependency in the workplace; methodologies for evaluation strategies, principles of design of a health promotion center. *Not offered on a regular basis. Availability to be determined by the department.*

- ☆ **Health Education 489-490.** Special Seminar in Health Education. 1 hr.; 1 cr. *Prereq: Permission of instructor.*

Intensive study of a special area of interest in health education. Topics will vary with each offering and will be announced at registration *Not offered on a regular basis. Availability to be determined by the department.*

☆ **Health Education 491-492.** Special Seminar in Health Education. 2 hrs.; 2 cr. *Prereq: Permission of instructor. Not offered on a regular basis. Availability to be determined by the department.*

☆ **Health Education 493-494.** Special Seminar in Health Education. 3 hrs.; 3 cr. *Prereq: Permission of instructor.*

Intensive study of a special area of interest in health education. Topics will vary with each offering and will be announced at registration. *Not offered on a regular basis. Availability to be determined by the department.*

☆ **Health Education 495-496.** Independent Study in Health Education. 1 cr. each. *Prereq: Agreement of faculty member to act as adviser.*

Investigation of a problem in health education, determined by the student in consultation with a member of the faculty.

☆ **Health Education 497-498.** Independent Study in Health Education. 2 cr. each. *Prereq: Agreement of faculty member to act as adviser.*

Investigation of a problem in health education, determined by the student in consultation with a member of the faculty..

Health Sciences-General Core Courses

☆ **Health Professions GC 101.** Basic Concepts of Health Professions. 2 hrs.; 2 cr. *Prereq: None.*

Basic concepts of health and disease; background health determinants; infections and chronic diseases; maternal and child health; geriatrics; social and physical environments. Field trips may be required.

☆ **Health Professions GC 102.** Public Health. 3 hrs.; 3 cr. *Prereq: HPGC 101 or Sophomore status in Health Education or Health Sciences.*

Basic principles of health administration and organization, background and development of public health; community health needs and resources; public health activities and personnel; international public health. Field trips may be required. *Offered Fall semesters.*

☆ **Health Professions GC 201.** Principles of Epidemiology. 3 hrs.; 3 cr. *Prereq: HPGC 102 or Biology 201 or Sophomore status in Health Education or Health Sciences.*

Principles and methods in the epidemiological investigation of infectious and noninfectious diseases; incidence, distribution, and control of selected major diseases, with emphasis on causes, mode of transmission, diagnostic tests; prevention; statistical techniques. Field trips may be required. *Not offered on a regular basis. Availability to be determined by the department.*

Health Professions GC 211. Principles of Environmental Health Sciences. 2 hrs. lecture; 2 cr. *Prereq: HPGC 101, Chemistry 102, Mathematics 121, Biology 202; or permission of instructor. Not open to students with credit in HPEH 321 or 322..*

Principles of engineering and science used in the control of man's

environment, water supply and treatment, sewage and waste water treatment, water collection and disposal, community air pollution, industrial hygiene, noise and illumination, radio logical health principles, housing, food and milk sanitation. *Offered Fall semesters.*

Health Professions GC 212. Principles of Environmental Health Sciences in Laboratory. 4 hrs. lab; 2 cr. *Prereq: HPGC 101, Chemistry 102, Mathematics 121, Biology 202, or permission of instructor. Coreq: HPGC 211. Not open to students with credit in HPEH 321 or 322.*

Laboratory practices in environmental health sciences; introduction to sampling, monitoring and analysis in air and water pollution controls and solid waste handling; toxicity studies; animal handling. Field trips may be required. *Offered Spring semesters..*

Hebrew

√ **Hebrew 101.** Elementary Hebrew I. 4 hrs.; 4 cr. *Prereq: None. Offered when the demand exists.*

√ **Hebrew 102.** Elementary Hebrew II. 4 hrs.; 4 cr. *Prereq: Hebrew 101, or two years of secondary school Hebrew, or by placement. Offered when the demand exists.*

√ **Hebrew 105.** Intermediate Hebrew I. 3 hrs.; 3 cr. *Prereq: Hebrew 102 or 114. Offered when the demand exists.*

√ **Hebrew 106.** Intermediate Hebrew II. 3 hrs.; 3 cr. *Prereq: Hebrew 105. Offered when the demand exists..*

History

√ **History 100.** History of the Modern World Since 1815. 3 hrs.; 3 cr. *Prereq/Coreq: English 125.*

Studies the development of the Western World from the end of the Napoleonic Age to the present within the context of global history; considers the concurrent rise of the Americas, Asia and Africa.

√ **History 101.** Pacific Century: The Emergence of Modern Pacific Asia. 3 hrs.; 3 cr. *Prereq/Coreq: English 125.*

Introduction to Asia and the Pacific area as we approach the twenty-first century. Themes in regional history emphasize the interaction between cultures and nations and evaluate domestic, political, economic and cultural trends in what is called the Pacific Basin. *Not offered on a regular basis..*

√ **History 105.** The City in the Modern World. 3 hrs.; 3 cr. *Prereq/Coreq: English 125.*

The historical role of the city in the development of the modern world. *Not offered on a regular basis..*

√ **History 106.** Revolution and Social Thought. 3 hrs.; 3 cr. *Prereq/Coreq: English 125.*

Revolution and social thought as a means of comprehending the

- development of the modern world. *Offered alternate Spring semesters. Not offered on a regular basis.*
- ✓ **History 108.** The Three Worlds: Europe, the Americas and the Third World in Modern Times. 3 hrs.; 3 cr. *Prereq/Coreq: English 125.*
Europe, the Americas, Africa and Asia in modern times; selected historical studies of imperialism, colonialism, nationalism and independence movements.
- ✓ **History 113.** The Birth of Europe. 3 hrs.; 3 cr. *Prereq/Coreq: English 125.*
The formation of European civilization from earliest times into the 17th century.
- ✓ **History 201.** Beginnings of the American People. 3 hrs.; 3 cr. *Prereq: English 125.*
Major forces in American life from the time of colonial settlement to the end of the Civil War; emphasis on the crucial relationship between European ideas and institutions and the evolution of American society, politics, and culture; slavery and its role in dividing the Union and sowing the seeds of future discord.
- ✓ **History 202.** The Emergence of Urban America. 3 hrs.; 3 cr. *Prereq: English 125.*
American life from the end of the Civil War to the present; emphasis on the effects of industrialization and urbanization on the American people, in particular on such groups as Blacks, immigrants, women and working people.
- ✓ **History 203.** Slavery in World History. 3 hrs.; 3 cr. *Prereq: English 125.*
The study of slavery, its characteristics, motives, and justifications, as it has existed in ancient and modern times, in Asia, Africa, and the New World. *Not offered on a regular basis.*
- ✓ **History 204.** Contemporary America. 3 hrs.; 3 cr. *Prereq: English 125.* Not open to students with credit in History 323.
America since 1945 with emphasis on the development of society and politics in the context of the Cold War and domestic social and economic unrest.
- ✓ **History 205.** History of Women in the United States. 3 hrs.; 3 cr. *Prereq: English 125.*
Women in American history: their status and contributions.
- ✓ **History 206.** Women and the Family in World History. 3 hrs.; 3 cr. *Prereq: English 125.*
Political, economic and cultural status of women in select Western and non Western societies from ancient times through the modern world; changing family structures; historical role of outstanding women.
- ✓ **History 220** History of Science 3hrs.; 3crs.; Prereq: English 125.
Traces the conceptual development, from ancient to modern times, of key ideas and methods that define and differentiate Natural Sciences.
- ✓ **History 257.** East Asia to the Nineteenth Century. 3 hrs.; 3 cr. *Prereq: English 125.*
Introduction to political, military, economic, social, intellectual, and cultural developments in East Asian civilization; China, Japan, Korea, and Vietnam (Annam) from the earliest times to the 19th century.
- ✓ **History 258** East Asia from 1800 to the Present. 3hrs. lecture; 3 cr. Prereq: English 125.
Introduction to the political, military, economic, social, intellectual, and cultural aspects of the modernization of East Asia; China, Japan, Korea and Vietnam from 1800 to the present.
- ✓ **History 262.** History of the Middle East. 3 hrs.; 3 cr. *Prereq: English 125.*
Political and social developments in the Middle East from the rise of the Islamic Caliphate, the era of the Ottoman Empire, and western control to the present. *Not offered on a regular basis.*
- ✓ **History 263.** Jewish History: From Ancient Israel until the end of the Middle Ages. 3 hrs.; 3 cr. *Prereq: English 125.*
The political, social, economic and religious history of the Jewish people before the entrance of the Jews into the Modern World. *Not offered on a regular basis.*
- ✓ **History 264.** Jewish History: The Modern Period. 3 hrs.; 3 cr. *Prereq: English 125.*
The emancipation struggle, the rise of modern anti-semitism, Zionism and the creation of the State of Israel. *Not offered on a regular basis.*
- ✓ **History 272.** African-American History. 3 hrs.; 3 cr. *Prereq: English 125.*
Realities of the African-American experience from African origins to the present; political, economic, social, and cultural aspects including 19th and 20th century immigration and urbanization. *Not offered on a regular basis.*
- ✓ **History 273.** The American Worker. 3 hrs.; 3 cr. *Prereq: English 125.*
American working conditions and labor organization from the Colonial Period to the present, with emphasis on the evolution of labor-management relations in the twentieth century.
- ✓ **History 274.** The American Ethnic Experience. 3 hrs.; 3 cr. *Prereq: English 125.*
Cultural Diversity in the United States from the Colonial Period to the present with an emphasis on immigration from Europe, Asia, Africa and the Americas.
- ✓ **History 275.** African History until 1800. 3 hrs.; 3 cr. *Prereq: English 125.*
Pre-Colonial period; social, economic, and cultural aspects of African civilization.

- ✓ **History 276.** African History from 1800 until the Present. 3 hrs.; 3 cr. *Prereq: English 125.*
Development of Africa in the light of imperialism and African nationalism.
- ✓ **History 277.** The Caribbean Since Columbus. 3 hrs.; 3 cr. *Prereq: English 125.*
Historical account of the experiences of peoples in the Caribbean from European colonization to the present, with emphasis on socio-economic and political problems.
- ✓ **History 278.** History of Modern India. 3 hrs.; 3 cr. *Prereq: English 125*
Basic historical account of the struggles of the people of the Indian subcontinent against colonial domination, with emphasis on the nationalist movement from which India and Pakistan emerged.
- ✓ **History 311.** The Colonial Period of American History, 1492-1760. 3 hrs.; 3 cr. *Prereq: English 125 and three credits of History.*
American colonial experience from the Age of Exploration to the Accession of George III. *Not offered on a regular basis.*
- ✓ **History 312.** The Era of the American Revolution, 1760-1815. 3 hrs.; 3 cr. *Prereq: English 125 and three credits of History.*
The formative years of the American Republic from the War of Independence to the War of 1812.
- ✓ **History 313.** The Civil War. 3 hrs.; 3 cr. *Prereq: English 125 and three credits of History.*
Causes, meaning and results of the war between the states; emphasis on slavery, abolitionism, and Lincoln.
Not offered on a regular basis.
- ✓ **History 315.** American Diplomatic History, 1789-1914. 3 hrs.; 3 cr. *Prereq: English 125 and three credits of History.*
Foreign relations of the United States from the American Revolution to 1914. *Not offered on a regular basis.*
- ✓ **History 316.** American Diplomacy in the Twentieth Century. 3 hrs.; 3 cr. *Prereq: English 125 and three credits of History.*
The United States as a world power from World War I through the Cold War. *Not offered on a regular basis.*
- ✓ **History 326.** American Economic History since the Civil War. 3 hrs.; 3 cr. *Prereq: English 125 and three credits of History.*
Evolution of the American economy since the mid-19th century with emphasis on industrialization, growth, capitalism, and periodic instability. *Not offered on a regular basis.*
- ✓ **History 331.** The Ancient Near East and Greece. 3 hrs.; 3 cr. *Prereq: English 125 and three credits of History.*
Development of civilization in the ancient Orient and Hellenic Greece. *Not offered on a regular basis.*
- ✓ **History 332.** The Ancient World: Rome. 3 hrs.; 3 cr. *Prereq: English 125 and three credits of History.*
Development of civilization from the Hellenistic period through the fall of the Roman Empire in the West. *Not offered on a regular basis.*
- ✓ **History 333.** Nineteenth-Century Europe. 3 hrs.; 3 cr. *Prereq: English 125 and three credits of History.*
European development from the age of Napoleon to 1914. *Offered alternate years.*
- ✓ **History 334.** Twentieth-Century Europe. 3 hrs.; 3 cr. *Prereq: English 125 and three credits of History.*
European development from 1914 to 1945.
- ✓ **History 335.** Russia from the Middle Ages to 1855. 3 hrs.; 3 cr. *Prereq: English 125 and three credits of History.*
Russian political, intellectual, and economic development from the Middle Ages to the reign of Tsar Nicholas I. *Not offered on a regular basis.*
- ✓ **History 336.** Russia from 1855 to the Present. 3 hrs.; 3 cr. *Prereq: English 125 and three credits of History.*
Russian political, intellectual, and economic development from the mid-19th century through the Bolshevik Revolution to the present. *Not offered on a regular basis.*
- ✓ **History 337.** Modern England. 3 hrs.; 3 cr. *Prereq: English 125 and three credits of History.*
English political, economic, and social development from the Tudor period to the Second World War. *Not offered on a regular basis.*
- ✓ **History 338.** Modern France. 3 hrs.; 3 cr. *Prereq: English 125 and three credits of History.*
French political, economic, and social developments from the 18th century to the Fifth Republic. *Not offered on a regular basis.*
- ✓ **History 339.** Modern Germany: 1648-1945. 3 hrs.; 3 cr. *Prereq: English 125 and three credits of History.*
Political, social, economic and cultural experiences of the German states to the establishment of the Federal Republic. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **History 340.** The Holocaust: The Jewish Experience under Nazism. 3 hrs.; 3 cr. *Prereq: English 125 and three credits of History.*
European Jewry under Nazi rule from 1933 to 1945; its literary and artistic aspects. Film presentations and guest lectures. *Not offered on a regular basis.*
- ✓ **History 344.** Contemporary Europe. 3 hrs.; 3 cr. *Prereq: English 125 and three credits of History.*
Analysis of political, economic, diplomatic, and social developments in Europe from 1945 to the present. *Not offered on a regular basis.*

- ✓ **History 353.** Modern China. 3 hrs.; 3 cr. *Prereq: English 125 and three credits of History.*
China's internal developments and foreign contacts from the late 18th century to the present. *Not offered on a regular basis.*
- ✓ **History 354.** Modern Japan. 3 hrs.; 3 cr. *Prereq: English 125 and three credits of History.*
Major political, military, economic, social, and intellectual developments in Japan from the late 18th century to the present. *Offered alternate years.*
- ✓ **History 359.** Contemporary China and Japan. 3 hrs.; 3 cr. *Prereq: English 125 and three credits of History.*
Analysis and discussion of major political, economic, diplomatic, social, and cultural developments in China and Japan from 1945 to the present technologies. *Not offered on a regular basis.*
- ✓ **History 367.** Colonial Latin America. 3 hrs.; 3 cr. *Prereq: English 125 and three credits of History.*
Political and social development of Latin America; emphasis on the interplay of ethnic factors from the 16th century to independence.
- ✓ **History 368.** Latin America since 1825. 3 hrs.; 3 cr. *Prereq: English 125 and three credits of History.*
Political and social development of Latin America from the attainment of independence to the present: emphasis on cultural and economic factors.
- ✓ **History 373.** The History of Technology. 3 hrs.; 3 cr. *Prereq: English 125 and three credits of History.*
A history of select technologies, from their primitive beginnings to their contemporary hi-tech forms. Focus on social, economic, and cultural consequences of the use of these technologies. Examination of the interplay among practical interests, theoretical investigations, and technologies. *Not offered on a regular basis.*
- ✓ **History 375.** Decolonization in West Africa. 3 hrs.; 3 cr. *Prereq: English 125 and 3 credits of History.* A study of the revolutionary movements which resulted in the achievement of independence by the West African colonies, from 1940 to 1960.
- ✓ **History 376.** West Africa Since Independence. 3 hrs.; 3 cr. *Prereq: English 125 and 3 credits of History.*
An analysis of the progress and problems of West Africa since independence (1960 to the present).
- ✓ **History 400-403.** Seminar in History. 3 hrs.; 3 cr. each. *Prereq: At least three credits of History at 200 level or higher and Junior status. Prereq/Coreq: Writing 301.*
Selected topics in history such as European, United States, Asian, African, or Latin American, and special topics such as the history of science, historiography, and the philosophy of history. *Not offered on a regular basis.*

- ✓ **History 490.** Senior Research in History. 3 hrs.; 3 cr. *Prereq: At least three credits of History at 200 level or higher, Senior status and Writing 301.*
Intensive, individually guided advanced research. *Not offered on a regular basis.*

Humanities

- ✓ **Humanities 101.** American Tradition of Social Change. 4 hrs.; 4 cr. *Prereq: None.* Open only to Freshmen and Sophomores.
Selected American literary works which express either the desire for or the fact of political, social or economic change; current problems which engage the historian or social scientist from a literary point of view. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Humanities 202.** Introduction to Linguistics. 3 hrs.; 3 cr. *Prereq: English 125.*
Practical introduction to general and historical linguistics.
- ✓ **Humanities 203.** Tradition and Innovation in the Twentieth Century. 6 hrs.; 6 cr. *Prereq: English 125.*
Responses of Humanities disciplines to crises of communication and values in the 20th century; interrelationship among history, philosophy, and the arts. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Humanities 204.** Ibsen and Strindberg. 3 hrs.; 3 cr. *Prereq: English 125.*
A study of the life and works of the Scandinavian writers Henrik Ibsen and August Strindberg. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Humanities 205.** Gateway to the Modern Age. 6 hrs.; 6 cr. *Prereq: English 125 and Sophomore status.* Not open to students with credit in History 343. History majors may credit 3 of the 6 credits toward major requirements.
The flowering of individualism in the 15th and 16th centuries; history, the arts, literature and philosophy interrelated. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Humanities 206.** Judaism I – Aspects and Trends from the Beginning to the Middle Ages. 3 hrs.; 3 cr. *Prereq: English 125.*
The analysis of Jewish thought from the early Patriarchs to medieval philosophy — special emphasis on prophetic Judaism, the conflict between Judaism and Christianity, rabbinic sages and the Golden Age of Judaism in Spain. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Humanities 207.** Judaism II – Modern and Contemporary. 3 hrs.; 3 cr. *Prereq: English 125.*
The life of the Jews in Eastern Europe during the eighteenth and nineteenth centuries, basic aspects of Jewish life in America, and main questions concerning Jewish existence in Israel today. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Humanities 225.** The Jewish People in the Greco-Roman World: 333 B.C. to 476 A.D. 3 hrs.; 3 cr. *Prereq: English 125.*

An analysis of the political, social, economic, and intellectual role of the Jew in the Greco-Roman world; special emphasis on the contributions of Philo Judaeus, Josephus Flavius, and The Septuagint to Western thought and civilization. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Humanities 230.** Fairness Equity. 3 hrs.; 3 cr. *Prereq: Math 020.*

A survey of the analytical methods applied to the areas of fairness, equity, justice and democracy. Topics will be selected from election methods, apportionment, fair division, fair taxes, auctions, and related ideas.

- ✓ **Humanities 235.** The Digital Revolution. 3 hrs.; 3 cr. *Prereq: Math 020.*

A survey of the analytical ideas underlying the development of such new technologies as fax machines, compact discs, and the World Wide Web. Topics will include error-correction codes, data compression, and data security.

- ✓ **Humanities 250.** The Italian Experience in the United States. 3 hrs.; 3 cr. *Prereq: English 125.*

Basic characteristics and trends in Italian immigration and ethnicity. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Humanities 251.** Asian American Experience. 3 hrs.; 3 cr. *Prereq: English 125.*

This introductory course is designed to acquaint students with the major Asian groups in the U.S., namely the Chinese, Indian, Japanese, Korean, Filipino, Vietnamese and other Southeast Asian groups. The topics of the course will include history, immigration laws, contributions, population characteristics, family and community problems, ethnic identity and acculturation.

- ✓ **Humanities 252.** The Jewish Experience in the United States. 3 hrs.; 3 cr. *Prereq: English 125.*

This course will examine the political, social, institutional and religious development of American Jewry from the Colonial period to the present.

- ✓ **Humanities 253.** The Haitian Experience in the USA. 3 hrs.; 3 cr. *Prereq: English 125.*

A study of the different waves of Haitian emigration in the USA and its effects on the lives of the Haitian immigrants and on the people of the USA.

- ✓ **Humanities 257.** The French: People, Language, and Culture. 3 hrs.; 3 cr. *Prereq: English 125.*

French "National Character" as seen through customs, culture, and especially language; comparisons to the United States. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Humanities 260.** The World of Opera: A Concise History. 3 hrs. lecture; 3 cr. *Prereq: English 125.*

A study of the history of opera. Special emphasis will be placed on the contributions of composers from diverse linguistic and cultural backgrounds.

- ✓ **Humanities 272.** The Latino Experience in the U.S. 3 hrs.; 3 cr. *Prereq: English 125 and Sophomore status.*

Introduction to the history, literature, ethnicity, culture and socio-economies of Latinos in the U.S. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Humanities 281.** Introduction to Eastern Religion. 3 hrs.; 3 cr. *Prereq: English 125.*

Methods and problems in the interpretation of religious phenomena; emphasis on major religions of the East, founders, scriptures, ideas, and moral standards; influence of Eastern religions on life and thought of Asiatic peoples. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Humanities 282.** Introduction to Western Religion. 3 hrs.; 3 cr. *Prereq: English 125.*

Brief introduction to the religions of the Near East; Judaism, Biblical Christianity, and Islam; emphasis on their scriptures, ideas, and moral standards, and the interaction and influence of these religions on the life and thought of their followers. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Humanities 283.** Mahayana Buddhism. 3 hrs.; 3 cr. *Prereq: English 125.*

Buddhism in Tibet, China, and Japan; history and thought of northern Buddhism and its interaction with indigenous religions; readings in Mahayana literature in translation and a study of Chinese and Japanese Buddhist sects. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Humanities 284.** Studies in Twentieth-Century Christian Thought. 3 hrs.; 3 cr. *Prereq: English 125 and Humanities 282.*

The impact of the dramatic changes in Western Civilization since 1900 as seen through such representative theologians as Barth, Bonhoeffer, Teilhard de Chardin, and Tillich. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Humanities 290.** Special Topics in Humanites 3 hrs.; 3 cr. *Prereq: English 125*

The study and analysis of a chosen topic from the humanist tradition, examined and presented with an interdisciplinary approach. The course may, depending on the topic and instructor, be offered as a Writing Intensive course.

- ✓ **Humanities 300.** The Nature of Human Communication. 3 hrs.; 3 cr. *Prereq: English 125 and Junior status.*

Human communication considered as a faculty (rather than as a skill or an art-form) inherent to the species. Verbal and non-verbal, inter and intrapersonal, and intercultural communication; signs, symbols and symbol-systems; communication models and

theories. Emphasis on people as makers and inhabitants of "worlds of discourse." This course is intended for students who have already developed analytical and language skills to the level of capability for independent inquiry since the subject matter is complex and theoretical.

- ✓ **Humanities 302.** Women's Studies I. 3 hrs.; 3 cr. *Prereq: English 125 and Sophomore status.* Not open to students with credit in Humanities 301.

A cross cultural exploration of women which will treat such topics as the social construction of reality, the formation of gender roles, health and sexuality, women authors in the United States and the Third World, women and political power, the contemporary women's movement and directions for the future.

- ✓ **Humanities 303.** Women's Studies II. 3 hrs.; 3 cr. *Prereq: English 125 and Sophomore status.* Not open to students with credit in Humanities 301.

Introduces the student to an interdisciplinary analysis of women's roles in different historical periods. It will explore such themes as the origins of male dominance, and women's place in religion, the family, the creative experience, and utopian societies.

- ✓ **Humanities 310.** Prejudice Viewed Existentially. 3 hrs.; 3 cr. *Prereq: English 125 and Sophomore status.* This course is the same as Behavioral Science 310.

An analysis, from a predominantly existential approach, of the attitudes towards "The Other" in the person of the Jew, the Woman, and the Black.

Humanities 320. Interdisciplinary Honors Seminar 3 hrs.; 3 cr, *Prereq: Membership in the York College Honors Program or permission of the instructor.*

Selected advanced topics will be explored from an interdisciplinary perspective. Students will read from the original source in each discipline covered in the course and synthesize the material through class discussion, written assignments, and oral presentations..

Italian

NOTE: In Italian 101 and 102, there will be some audiovisual sections for students who prefer a greater emphasis on the spoken language, integrating the use of films, videotapes and laboratory materials.

- ✓ **Italian 101.** Elementary Italian I. 4 hrs.; 4 cr. *Prereq: None.* Not open to students with credit in Italian 113.

Basic principles of a beginners' course designed to give the foundation for understanding, speaking, reading, and writing the language; study of simple syntax.

- ✓ **Italian 102.** Elementary Italian II. 4 hrs.; 4 cr. *Prereq: Italian 101 or 113, or two years of secondary school Italian, or by placement examination.* Not open to students with credit in Italian 114.

Continuation of the beginners' course; integrated reading and further practice in conversation. Students may continue 102 audiovisual. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Italian 104.** Rapid Review of Basic Italian. 3 hrs.; 3 cr. *Prereq: Italian 102.* Not credited toward fulfillment of Italian Major. Not open to students with credit in Italian 105 or above.

A refresher course of basic Italian grammar and reading integrating the use of tapes and laboratory materials. Designed for students who wish to reinforce their basic knowledge of the language and for native speakers who have not studied Italian syntax. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Italian 105.** Intermediate Italian I. 3 hrs.; 3 cr. *Prereq: Italian 102 or 114*

Intensive oral-aural practice based on selected readings; more complex grammatical structures. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Italian 106.** Intermediate Italian II. 3 hrs.; 3 cr. *Prereq: Italian 105.*

Intensive oral-aural practice based on literary texts. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Italian 113.** Elementary Italian I. 3 hrs.; 3 cr. *Prereq: None.* Not open to students with credit in Italian 101.

Beginners' course designed to give a broad basis for speaking, reading, and writing the language. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Italian 114.** Elementary Italian II. 3 hrs.; 3 cr. *Prereq: Italian 101 or 113.* Not open to students with credit in Italian 102.

Continuation of the beginners' course; more complex grammatical structures; integrated reading and further practice in conversation. *Not offered on a regular basis. Availability to be determined by the department.*

NOTE: Courses numbered 200 and above are normally conducted entirely in Italian, except when otherwise indicated.

- ✓ **Italian 200.** Commercial Italian I. 3 hrs.; 3 cr. *Prereq: Italian 105, native speaker or permission of instructor.*

Specialized language used in the Italian world of commerce; composing and translating business letters, commercial documents, and import-export terminology. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Italian 207.** Historical Survey of Italian Literature I: From its Origin to Mid-Sixteenth Century. 3 hrs.; 3 cr. *Prereq: Italian 106 or permission of instructor.*

Italian literature from the Sicilian School to the Renaissance. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Italian 208.** Historical Survey of Italian Literature II: From Mid-Sixteenth Century to Mid-Nineteenth Century. 3 hrs.; 3 cr. *Prereq: Italian 106 or permission of instructor.*

Italian literature of the late Renaissance, the Baroque, Neo-Classicism, and Romanticism. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Italian 209.** Historical Survey of Italian Literature III: From Mid-Nineteenth Century to the Present. 3 hrs.; 3 cr. *Prereq: Italian 106 or permission of instructor.*
Italian literature of Realism, Futurism, Surrealism, Neo-Realism, and Existentialism. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Italian 225.** Commercial Italian II. 3 hrs.; 3 cr. *Prereq: Italian 200 or permission of department.*
Emphasis on translation of documents, business related materials and newspaper articles, materials obtained from banks, export and import companies, stock exchange, and custom offices dealing with Italian business transactions. The student will be exposed to a wide range of Italian commercial terminology. Speakers from various business firms will address the students. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Italian 230.** Intermediate Conversation. 3 hrs.; 3 cr. *Prereq: Italian 106 or permission of instructor.*
Discussions conducted in Italian; intended to give language fluency with emphasis on the language used in daily conversation. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Italian 232.** Advanced Conversation. 3 hrs.; 3 cr. *Prereq: Italian 106 or permission of instructor.*
Oral expression and idiomatic usage; intended to give correctness and fluency in the use of the language. The oral work based on readings or representative modern authors, although a few earlier texts included. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Italian 233.** Advanced Grammar with Composition. 3 hrs.; 3 cr. *Prereq: Italian 106 or permission of instructor.*
Composition and thorough review of grammar; written and oral work based on readings of representative modern authors. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Italian 234.** Advanced Composition and Style. 3 hrs.; 3 cr. *Prereq: Italian 233 or permission of instructor.*
Composition based on readings of representative modern authors; emphasis on syntax and style. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Italian 240.** Translation I. 3 hrs.; 3 cr. *Prereq: Italian 106 or native speaker or permission of department and completion of Instrumental English requirement.*
Developing skills in translation from Italian to English and English to Italian; materials will be selected from advertising, journalism, literature, business, and other technical areas. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Italian 241.** Translation II. 3 hrs.; 3 cr. *Prereq: Italian 240 or native speaker or permission of department.*
Continuation of Italian 240; more extensive translation of commercial, journalistic, literary, and scientific texts. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Italian 243.** The Italian Theatre I: From its Origin to the End of the Eighteenth Century. 3 hrs.; 3 cr. *Prereq: Italian 106 or permission of instructor.*
Representative works from the teatro sacro of the 13th century to Alfieri's Tragedies; particular attention given to the commedia dell'arte. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Italian 245.** Italian Renaissance. 3 hrs.; 3 cr. *Prereq: Italian 106 or permission of instructor.*
The evolution of Renaissance literary genres: the epic, lyric poetry, and drama. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Italian 247.** The Italian Theatre II: Nineteenth and Twentieth-Century Italian Theatre. 3 hrs.; 3 cr. *Prereq: Italian 106 or permission of instructor.*
From the teatro verista of the 19th century to the plays of Pirandello and other major Italian dramatists. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Italian 248.** Italian Short Story. 3 hrs.; 3 cr. *Prereq: Italian 106 or permission of instructor.*
Origin and development of the Italian short story from Boccaccio to the present; particular attention given to the problems of the short story as a literary form during the 19th and 20th centuries. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Italian 250.** Nineteenth-Century Italian Novel. 3 hrs.; 3 cr. *Prereq: Italian 106 or permission of instructor.*
Representative 19th century Italian novels from Foscolo to Verga. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Italian 251.** Twentieth-Century Italian Novel. 3 hrs.; 3 cr. *Prereq: Italian 106 or permission of instructor.*
Representative 20th century Italian novels from D'Annunzio to Bevilacqua. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Italian 265.** Nineteenth-Century Italian Poetry. 3 hrs.; 3 cr. *Prereq: Italian 106 or permission of instructor.*
Analysis of representative 19th century Italian poetry. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Italian 266.** Twentieth-Century Italian Poetry. 3 hrs.; 3 cr. *Prereq: Italian 106 or permission of instructor.*
Analysis of representative 20th century Italian poetry. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Italian 313.** Dante's Divine Comedy I: Inferno. 3 hrs.; 3 cr. *Prereq: Italian 106 or permission of instructor.*
A close examination of Dante's Inferno with some consideration of Vita Nuova; particular attention to allegory, symbolism, and struc-

ture. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Italian 315.** Petrarch and Boccaccio. 3 hrs.; 3 cr. *Prereq: Italian 106 or permission of instructor.*

The lyric poetry of Petrarch's *Canzoniere* and the novella from its origin to Boccaccio's *Decameron*. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Italian 317.** Dante's *Divine Comedy* II: *Purgatorio*. 3 hrs.; 3 cr. *Prereq: Italian 106 or permission of instructor.*

A close reading of selected cantos of the *Purgatorio*; emphasis on Dante's poetics and the significance of the *Divine Comedy* in the history of Western culture. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Italian 318.** Dante's *Divine Comedy* III: *Paradiso*. 3 hrs.; 3 cr. *Prereq: Italian 106 or permission of instructor.*

A close reading of selected cantos of the *Paradiso*; emphasis on Dante's poetics and the significance of the *Divine Comedy* in the history of Western culture. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Italian 319.** Pirandello. 3 hrs.; 3 cr. *Prereq: Italian 106.*

Pirandello's philosophical ideas as seen through his principal novels and dramas. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Italian 353.** Italian Culture and Civilization. 3 hrs.; 3 cr. *Prereq: None.*

Development of Italian culture and history and its contribution to science, philosophy, music, and fine arts. Conducted in English. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Italian 356.** A Major Italian Author in Translation. 3 hrs.; 3 cr. *Prereq: None.*

A major Italian author such as Pirandello, Boccaccio, or Machiavelli. Author announced each semester. Can be repeated for credit. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Italian 400.** Individual Study. Hours arranged; 3 cr. *Prereq: Permission of instructor.*

Independent, guided research under the supervision of the Italian faculty. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Italian 405.** Seminar in Italian Literature. 3 hrs.; 3 cr. *Prereq: Italian 106.*

Intensive examination of a special phase of Italian literature; especially designed to give students experience in scholarly research. *Not offered on a regular basis. Availability to be determined by the department.*

Latin

- ✓ **Latin 101.** Elementary Latin I. 4 hrs.; 4 cr. *Prereq: None. Offered when the demand exists.*

Basic principles of a beginner's course; designed to give the foundations of the language.

- ✓ **Latin 102.** Elementary Latin II. 4 hrs.; 4 cr. *Prereq: Latin 101. Offered when the demand exists.*

Continuation of the beginner's course; more complex grammatical structures, integrated readings and further practice in conversation.

Liberal Studies

Liberal Studies 400. Senior Seminar in Liberal Studies. 3hrs; 3cr. *Prereq: Senior status and 27 credits completed in Liberal Studies Major.*

A capstone seminar on the connections between the events of history, the plots of imaginative literature, and the arguments of philosophy, rhetoric, and science.

Marketing

Marketing 341. Introduction to Marketing (Formerly Economics 282) 3 hrs.; 3 cr. *Prereq: Business 301*

Introduction to concepts, institutions and policies of distribution; relationships among manufacturers, wholesalers, retailers, and consumers, market research and strategies, advertising, and sales management.

Marketing 342. Marketing Research. 3 hrs.; 3 cr. *Prereq: Marketing 341, Mathematics 115, and Economics 220.*

Application of scientific methodology to development and testing of marketing programs. Examination of research tools including questionnaires, sampling, interviewing and report writing.

Marketing 343. Advertising and Public Relations. 3 hrs.; 3 cr. *Prereq: Marketing 341.*

Organization, planning and control of the advertising and public relation functions; the role of agencies and media; the relationship of communication, publicity, and public opinion.

Marketing 344. Retail Management. 3 hrs.; 3 cr. *Prereq: Marketing 341.*

Organizing, planning, staffing, directing and controlling of retail operations; study of buying and merchandising, store services, human resource utilization, and sales and expense control.

Marketing 345. Principles of Selling. 3 hrs.; 3 cr. *Prereq: Marketing 341 or permission of instructor.*

Skills needed for effective salesmanship; concepts from behavioral sciences as well as proven techniques in prospecting, preparing and making a sales presentation, overcoming objections, and closing the sale. Students will develop their skills by role playing.

Marketing 346. International Marketing. 3 hrs.; 3 cr. *Prereq:* Marketing 341.

Analysis of world markets, trade channels, promotion and financing; study of communication channels, sources of information and unique customers and practice in individual markets abroad; the role of multinational corporations.

Marketing 347. Consumer Behavior. 3 hrs., 3 cr. *Prereq:* Marketing 341 or permission of instructor.

Analysis and evaluation of the motives, decision process, and behavior consumers, utilizing the latest contributions in marketing and economics. Impact of the Consumer Movement on the market.

Marketing 350. Industrial Marketing. 3 hrs.; 3 cr. *Prereq:* Marketing 341.

A managerial approach to marketing decision making in an industrial market. Topics include vendor and value analysis, inventory control, sales forecasting, industrial market planning, marketing auditing, sales force and channel management. The course objective is to learn new concepts, tools, and techniques applicable to the marketing of industrial products. Insights are gained into specific aspects of the marketing of industrial products and services. The course provides an understanding of methods and strategies of leading U.S. corporations involved in the marketing of U.S. products in the U.S. and overseas.

Marketing 351. Sales Management. 3 hrs., 3 cr. *Prereq:* Marketing 341 or permission of instructor.

Sales management functions: recruitment, selection, training, design or compensation systems, sales forecasting, determination of sales quotas, evaluation of performance; personal selling within the context of the marketing concept.

Marketing 352. Direct Marketing. 3 hrs.; 3 cr. *Prereq:* Marketing 341.

An examination of the concepts, strategies and applications involved in direct marketing, including mail order, direct response advertising and marketing on the Internet. Measurability, accountability, lists, data and the integration of direct marketing programs into total marketing efforts and overall organization goals and functions are discussed.

Marketing 483. Marketing Management. 3 hrs., 3 cr. *Prereq:* Completion of all other course requirements in marketing specialization.

Capstone course for majors in Marketing in senior year, the organization and operation of the marketing function; the development of marketing programs, including product planning, sales, advertising and physical distribution.

Marketing 490. Independent Study in Marketing. 3 hrs., 3 cr. *Prereq:* Junior status and permission of instructor.

In-depth investigation of a marketing problem of the student's choice with faculty approval and guidance.

Mathematics

√ **Mathematics 020.** Algebra and Geometry. 4 hrs.; 0 cr. *Prereq:* By placement only.

Basic concepts of algebra and elementary ideas of geometry; properties of the real number system; algebraic operations; factoring; solutions of linear equations; simultaneous equations; graphs; properties of geometrical figures.

√ **Mathematics 101.** Algebra and Trigonometry. 4 hrs.; 1 cr. *Prereq:* Mathematics 011, 020, 100 or by placement. May not be used to meet General Education Requirements.

Linear and quadratic equations, exponents, logarithms, coordinate systems, trigonometric functions, solution of triangles, identities and equations.

√ **Mathematics 102.** Intermediate Algebra. 3 hrs.; 1 cr. *Prereq:* Math 011 or by placement. May not be used to meet General Education Requirements. Not credited toward fulfillment of mathematics major requirements.

The real numbers, linear equations and inequalities, polynomials, factoring, rational expressions, roots and radicals, quadratic equations, lines, systems of linear equations, functions and their graphs, exponential and logarithmic functions, applications.

√ **Mathematics 111.** Introduction to Statistics and Probability. 4 hrs.; 4 cr. *Prereq:* Math 102, the equivalent, or placement exam. Not credited toward fulfillment of Mathematics major requirements. Not open to students with credit in Mathematics 180, 210, or 221.

Elements of statistics, graphs, frequency distributions, measures of central tendency and measures of dispersion; elementary probability theory, counting, binomial and normal distributions.

√ **Mathematics 115.** Quantitative Methods for Decision Making. 4 hrs.; 4 cr. *Prereq:* Mathematics 102, the equivalent, or placement examination. Not credited toward fulfillment of Mathematics major requirements. Not open to students with credit in Mathematics 221.

Functions, systems of linear equations, matrices, elementary linear programming; elementary calculus; mathematics of finance; and related topics.

√ **Mathematics 119.** Computer Algebra System. 1 hr.; 1 cr. *Prereq:* /Coreq: Mathematics 102

An introduction to computer algebra systems such as MAPLE. Basic functions of the system will be introduced, then they will be used to explore various precalculus topics.

√ **Mathematics 120.** Pre-calculus. 4 hrs.; 4 cr. *Prereq:* Math 102. *Coreq:* Math 119. Not to be used to satisfy the general education requirement and not to be used to satisfy the requirement for mathematics major.

Advanced topics in algebra, functions and graphs, inverse functions, composite functions, polynomial and rational functions, trigonometry, exponential and logarithmic functions.

- ✓ **Mathematics 121.** Analytic Geometry and Calculus I. 4 hrs.; 4 cr. *Prereq: Mathematics 119 and 120.* Not open to students with credit in Mathematics 184.
An introduction to calculus and analytic geometry; emphasis on theory as well as techniques and applications; functions, limits, differentiation, integration; applications; lines, conic sections, and graph sketching.
- ✓ **Mathematics 122.** Analytic Geometry and Calculus II. 4 hrs.; 4 cr. *Prereq: Mathematics 121 or 184.*
Derivatives and integrals of transcendental functions, applications of integration, methods of integration, L'Hopital's rule, improper integrals, infinite series, conic sections.
- ✓ **Mathematics 141.** Discrete Mathematics. 3 hrs.; 3cr. *Prereq: Not open to students with credit in Math 225. This course does not satisfy the requirements for the Mathematics major. Math majors should take Math 225 instead.*
Introduction to topics in discrete mathematics, such as number systems, mathematical induction, combinatorics, recursion and graph theory. Algorithmic aspects of the topics discussed will be emphasized.
- ✓ **Mathematics 150.** Mathematics and its Applications. 4 hrs.; 4 cr. *Prereq: Passing CUNY Math Skills Test.* Not credited toward Mathematics major requirements. Not open to students with credit in Mathematics 221.
Survey course for liberal art students that emphasizes recent mathematics and its applications, especially mathematics which supports the development of new technologies. Topics will be selected from geometry, algebra, discrete mathematics, etc.
- ✓ **Mathematics 184.** Analytic Geometry and Calculus I. 5 hrs.; 4 cr. *Prereq: Mathematics 101 or by placement.* Not open to students with credit in Mathematics 121.
Same content as Mathematics 121, supplemented with selected pre-calculus material. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Mathematics 190.** Computers in Modern Society. 4 hrs.; 4 cr. *Prereq: Mathematics 102, the equivalent, or placement exam.* Not credited toward fulfillment of Mathematics major requirements. Not open to students with credit in Mathematics 191.
Introduction to computer programming, using the language BASIC; solution of simple problems in many fields to broaden the student's view of the capabilities of the computer; an overview of current computer systems, software, and trends. Students are expected to complete several laboratory assignments.
- ✓ **Mathematics 210.** Probability and Statistics I. 4 hrs.; 4 cr. *Prereq: Mathematics 122.* Not open to students with credit in Mathematics 111 or 181, except by permission of Chair of Mathematics and Computer Studies Department.
Basic concepts of probability theory: combinatorial problems, random variables, distributions, expectation; law of large numbers, central limit theorem, applications. Offered Fall semesters.
- ✓ **Mathematics 211.** Probability and Statistics II. 4 hrs.; 4 cr. *Prereq: Mathematics 210 and Mathematics 221.* Not open to students with credit in Mathematics 113, except by permission of the Chair of Mathematics and Computer Studies Department.
Fundamental concepts of statistics, multivariate distributions, sampling theory, estimation theory, hypothesis testing, goodness-of-fit, linear regression.
- ✓ **Mathematics 221.** Analytic Geometry and Calculus III. 4 hrs.; 4 cr. *Prereq: Mathematics 122.*
Parametric equations and polar coordinates, power series, radius and interval of convergence, Taylor series. Solid analytic geometry, vector-valued functions, functions of several variables, partial derivatives, multiple integrals
- ✓ **Mathematics 222.** Differential Equations. 4 hrs.; 4 cr. *Prereq: Mathematics 221.*
The solution of ordinary differential equations, including linear equations of first and higher order; introduction to partial differential equations.
- ✓ **Mathematics 225.** Discrete Mathematical Structures 4 hrs.; 4 cr. *Prereq: Math 115 or 121 or 184.*
Discrete mathematical topics and concepts with an emphasis on how discrete mathematics can be employed in computer science. Set theory, logic, algorithms, basic combinatorics, discrete probability, graph theory mathematical induction, and related topics.
- ✓ **Mathematics 230.** Theory of Numbers. 4 hrs.; 4 cr. *Prereq: Mathematics 122.*
Properties of integers, divisibility; prime numbers, congruences, diophantine equations. Other selected topics. *Offered alternate Fall semesters.*
- ✓ **Mathematics 241.** Combinatorial Geometry. 4 hrs.; 4 cr. *Prereq: Mathematics 122.*
Selected basic topics in the theory of graphs and convex sets. Topics are selected from such areas as connectivity, trees, planarity, Euler's formula, coloring problems, constant width, support theorems, packing and covering problems, polyhedra. *Offered alternate Spring semesters.*
- ✓ **Mathematics 242.** Geometric Structures. 4 hrs.; 4 cr. *Prereq: Mathematics 122.*
Axiom systems; Euclidean geometry; survey of various non-Euclidean geometries. Other selected topics. *Offered alternate Fall semesters.*
- Mathematics 271.** Mathematics for Elementary School Teachers. 4 hrs.; 4 cr. *Prereq: Mathematics 101, Mathematics 102 or pass CUNY Math Skills Test.* Not credited toward fulfillment of Mathematics major requirements. Not open to students with credit in Math 122.
Mathematical reasoning, problem-solving, elementary theory, structures and concepts of arithmetic, numeration systems, integers, rational and real numbers, number theory, elementary probability and statistics.

Mathematics 272. Geometry and Measurement. 2 hrs.; 2 cr. *Prereq: Mathematics 101, Mathematics 102 or pass CUNY Math Skills Test.* Prospective teachers should take this course in conjunction with Math 271, although 271 is not a prerequisite. Not open to students with credit in Math 122.

Mathematical reasoning, plane and solid figures including polygons and polyhedra, similarity and congruence, length, area, surface area and volume, symmetries, translations and rotations, tessellations, networks, systems of measurement including the metric system.

- √ **Mathematics 300-301.** Guided Study of Selected Topics in Mathematics. Hours arranged; 1 cr. each. *Prereq: Junior status, and permission of department.*

Individual study under supervision of mathematics faculty.

- √ **Mathematics 302.** Actuarial Mathematics I. 1 hr.; 1 cr. *Prereq: Mathematics 221 and 333.* Not credited toward fulfillment of Mathematics major requirements.

Special applications of Calculus and Linear Algebra in Actuarial Science. This course will prepare students to take Actuarial Examination Part I. Offered Fall semesters.

- √ **Mathematics 303.** Actuarial Mathematics II. 1 hr.; 1 cr. *Prereq: Mathematics 210 and 211.* Not credited toward fulfillment of Mathematics major requirements.

Special applications of probability theory and statistics in Actuarial Examination Part II. *Availability to be determined.*

- √ **Mathematics 310.** Operations Research. 4 hrs.; 4 cr. *Prereq: Mathematics 122.*

Linear programming, game theory, decision theory, queuing theory, systems dynamics, network theory. Other related topics in Management and Social Sciences. *Offered alternate Spring semesters.*

- √ **Mathematics 311.** Mathematical Methods for Physical Science. 4 hrs.; 4 cr. *Prereq: Mathematics 222.*

Orthogonal functions: Legendre, Laguerre, Hermite, and Bessel functions. Line and surface integrals: Theorems of Green, Gauss, and Stokes. Fourier series and transforms. Introduction to complex functions. Other selected topics. *Offered alternate Fall semesters.*

- √ **Mathematics 321.** Finite Differences and Difference Equations. 4 hrs.; 4 cr. *Prereq: Mathematics 221 or permission of instructor.*

Fundamental concepts of finite differences; interpolation formulae; linear and nonlinear difference equations; theory of interest and annuities. Related topics. *Not offered on a regular basis. Availability to be determined by the department.*

- √ **Mathematics 332.** Modern Algebra. 4 hrs.; 4 cr. *Coreq: Mathematics 333 or permission of instructor.*

Axiomatic theory of groups, rings, and fields; isomorphisms and homomorphisms. Examples from the field of real numbers, modular arithmetic, matrices. *Offered alternate Spring semesters.*

- √ **Mathematics 333.** Linear Algebra. 4 hrs.; 4 cr. *Prereq: Mathematics 221 or permission of instructor.*

Axiomatic theory of vector spaces; matrices, determinants, linear transformations. Systems of linear equations.

- √ **Mathematics 335.** Mathematical Logic. 4 hrs.; 4 cr. *Prereq: Mathematics 122.*

Introduction to mathematical logic, propositional logic, first order logic, proof systems, introduction to model theory.

- √ **Mathematics 395.** Numerical Analysis. 4 hrs.; 4 cr. *Prereq: Mathematics 191. Coreq: Mathematics 192, 222.*

Analysis and applications of algorithmic methods; study of truncation and propagation errors; interpolation and round off; curve fitting; iterative solutions of nonlinear equations; numerical solutions of differential equations, integration problems, and sets of linear equations. Students are expected to complete several laboratory projects. Offered Fall semesters.

- √ **Mathematics 400-401.** Independent Study of Selected Topics in Mathematics. Hours arranged; 2 cr. *Prereq: Senior status and permission of department.*

Independent study under supervision of mathematics faculty.

- √ **Mathematics 410.** Mathematical Modeling. 4 hrs.; 4 cr. *Prereq: Mathematics 122.*

The basic principles for construction of mathematical models illustrated using examples from Management Science, Social Science, and Physical Science. Selected mathematical ideas from: Markov chains, game theory, difference equations, and measurement theory.

- √ **Mathematics 423.** Advanced Calculus I. 4 hrs.; 4 cr. *Prereq: Mathematics 222.*

The real and complex number systems; topological concepts; theory of functions, limits, continuity, differentiability; theory of integration; vector calculus; functions of several variables, sequences and series. Other selected topics. Offered Fall semesters.

- √ **Mathematics 424.** Advanced Calculus II. 4 hrs.; 4 cr. *Prereq: Mathematics 423.*

Continuation of Mathematics 423. *Not offered on a regular basis. Availability to be determined by the department.*

- √ **Mathematics 425.** Introduction to Complex Analysis. 4 hrs.; 4 cr. *Prereq: Mathematics 423 or permission of instructor.*

Complex numbers, analytical functions, elementary functions, contour integration. Cauchy's Theorem, power series. Other selected topics. *Offered alternate Spring semesters.*

- √ **Mathematics 426.** Introduction to Topology. 4 hrs.; 4 cr. *Prereq: Mathematics 423.*

Introduction to point set topology, fundamental properties of topological spaces; metric spaces, Euclidean spaces, continuous mappings, homeomorphism, separation axioms, compactness, connectedness. Other selected topics. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Mathematics Education 572.** Advanced Methods in High School Math Instruction. 2 hrs. lecture; 5 hrs. lab.; 4 cr.
Prereq: Acceptance in Project Leadership.

An intensive four week summer program for experienced high school math teachers. A combination of lectures, seminars, demonstrations and laboratory exercises designed to upgrade and revitalize knowledge in mathematics and in current teaching methods. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Mathematics Education 573.** Field Activities in Math Education. 6 hrs. field work; 2 cr. *Prereq: Mathematics Education 572.*

A follow-up to Education 572 in which students will attend and participate in workshops at the college and at their own schools. In addition, the students will present 75 periods of in-service training to their peers to disseminate and implement the new materials. *Not offered on a regular basis. Availability to be determined by the department.*

Medical Technology

THE COURSES LISTED BELOW MAY BE TAKEN BY MEDICAL TECHNOLOGY MAJORS ONLY WITH THE PERMISSION OF THE COORDINATOR

- Health Professions MT 322.** Clinical Chemistry Techniques. 1 hr. lecture; 4 hrs. lab.; 3 cr. *Prereq: Chemistry 241. Coreq: HPMT 351.*

Introduction to the theoretical and practical aspects of clinical chemistry. In addition to the analytical procedures currently used, the chemical principles upon which these methods are based will be included. Different methods used for quantitation of complex metabolites and other compounds of interest in contemporary medicine will be discussed. Offered Fall semesters.

- Health Professions MT 330.** Human Anatomy and Physiology for Medical Technologists. 2 hrs. lecture; 2 hrs. lab.; 3 cr. *Prereq: Biology 202, Chemistry 230/235 or 231/232.* Not open to students with credit in HPOT 316.

Introductory course in human anatomy and physiology; information on living anatomy and cell biology with special emphasis on the relationship between structure and physiology of the different organs. Emphasis will be at the cellular levels on the circulatory, respiratory and lymphatic systems. Attention will also be given to the skeletal system. Offered Spring semesters.

- Health Professions MT 332.** Tissue Techniques. 4 hrs. Lab.; 2 cr. *Prereq: Biology 202, Chemistry 230/235 or 231/232.*

Discussion of the chemical rationale of staining procedures; preparation of slides through sectioning and staining. Offered Fall semesters.

- Health Professions MT 341.** Clinical Immuno-Serology Techniques. 2 hrs. lab.; 1 cr. *Prereq: Biology 466, Chemistry 230/235 or 231/232.*

Acquisition of technical skills and theoretical knowledge for performing and interpreting serological procedures used to identify antibody levels in various diseases; introduction to contemporary techniques used for detection of infectious diseases in advanced

clinical and research laboratories; variation of serological techniques for urine, as well as routine urinalysis and its significance will be discussed. Offered Spring semesters.

- Health Professions MT 343.** Immuno-Hematology and Blood Banking. 2 hrs. lecture; 2 hrs. lab.; 3 cr. *Prereq: Biology 466, Chemistry 230/235 or 231/232.*

Introduction to the basic understanding of immunologic reactions involving blood components; essential basic information, as well as important applications pertinent to practice of blood bank: collection, processing, preservation, preparation, screening and distribution of blood and blood components and derivatives; understanding of the basic concepts of inheritance, heredity and immunity. The student will be exposed to the different blood group systems and Rh system. Offered Spring semesters.

- Health Professions MT 351.** Clinical Chemistry. 3 hrs.; 3 cr. *Prereq: Biology 202 and Chemistry 230/235 or 231/232. Coreq: HPMT 322.* Not credited toward fulfillment of Biology Major requirements.

Presents aspects of the field of clinical biochemistry to students who will be majoring in the health sciences: function and the metabolism of the living cell; structure of the molecules of which cells are composed: proteins, nucleic acids, carbohydrates, lipids, and co-enzymes; metabolism includes synthesis and degradation of the many chemical constituents of the cells; the biochemistry of clinical disorders. Offered Fall semesters.

- Health Professions MT 352.** Hematology and Coagulation. 2 hrs. lecture; 4 hrs. lab.; 4 cr. *Prereq: Biology 202, Chemistry 230/235 or 231/232*

Different aspects of hematology which are significant to the medical technologist (basic background material, expanded morphologic coverage, development and function of each hematopoietic cell line). Technical procedures essential in the diagnosis of several hematologic disorders. Pathology and etiology of different blood diseases (anemias, leukemias, and hemorrhagic diseases). The theory and principle of blood coagulation is included in this course. Offered Spring semesters.

- Health Professions MT 353.** Medical Parasitology. 2 hrs. lecture; 2 hrs. lab.; 3 cr. *Prereq: Biology 202, Chemistry 230/235 or 231/232.*

Introduction to processes by which parasitic organisms are acquired and how they produce disease in man. The course will consist of two main parts: intestinal parasites and blood parasites, with special emphasis on the role of arthropods as parasites and vectors of disease. Some emphasis will be given to the life cycles of human parasites. Offered Fall semesters.

- Health Professions MT 360.** Principles of Clinical Toxicology. 2 hrs.; 2 cr. *Prereq: Biology 202, Chemistry 230/235 or 231/232.*

The course is intended to acquaint the student with the chemical composition, mechanism of action, and detection of and antidotes for toxic substances and medicinals as encountered in the clinical laboratory. Emphasis will be on the broad aspects of industrial and environmental toxicology related to testing facilities, regulatory processes and toxicity testing protocols.

Health Professions MT 457. Clinical Internship in Medical Technology I. 40 hrs.; 6 months full time, 9 cr. *Prereq:* Students must have successfully completed all other requirements for graduation, have a GPA of at least 2.0 in Medical Technology courses, have an overall GPA of at least 2.0 and permission of the Medical Technology Coordinator. Graded on Pass/Fail basis.

Full-time clinical internship at affiliated hospital with rotation periods in various sections of the laboratory.

Health Professions MT 458. Clinical Internship in Medical Technology II. 40 hrs.; 6 months full time, 9 cr. *Prereq:* HPMT 457 and permission of the Medical Technology Coordinator. Graded on Pass/Fail basis. Full-time clinical internship.

Health Professions MT 498. Independent Study in Medical Technology. Hours arranged. 3 hrs.; 3 cr. *Prereq:* Senior status and permission of instructor.

Investigation of a special project under the guidance of a faculty member.

Health Professions MT 499. Advanced Practicum in Medical Technology. Hours arranged. 3 hrs.; 3 cr. *Prereq:* Senior status and permission of instructor.

Independent investigation of a special project within the clinical laboratory area practical and/or theoretical..

Music

☆ **Music 036.** Chorus. 3 hrs.; 0 cr. *Prereq:* Permission of instructor.

Study and performance of selected choral masterpieces.

☆ **Music 037.** Chamber Choir. 3 hrs.; 0 cr. *Prereq:* Permission of instructor.

Study and performance of music for small vocal groups, particularly a cappella choral music. Offered Spring semesters. *Not offered on a regular basis. Availability to be determined by the department.*

☆ **Music 039.** Jazz Workshop. 3 hrs.; 0 cr. *Prereq:* Permission of instructor.

Performance of contemporary jazz-rock compositions; the study of ensemble and solo techniques. Students employ jazz improvisation principles with voices and instruments and are introduced to the synthesizer as used in jazz performance.

☆ **Music 041.** Class Instruction in Piano. 1 hr.; 0 cr. *Prereq:* Music 110 and permission of instructor.

The study of keyboard literature to suit the level of the individual student. *Not offered on a regular basis. Availability to be determined by the department.*

√ **Music 101.** Introduction to Music. 3 hrs.; 3 cr. *Prereq:* None. Not credited toward fulfillment of Music major requirements. Not open to students with credit in Music 103.

How music is made: notes, chords, instruments; the appreciation of various styles through recordings played in class. Forms may include symphony, opera, concerto and others.

√ **Music 103.** Introduction to Music History. 3 hrs.; 3 cr. *Prereq:* Permission of instructor for non-music majors.

Study of the representative genres and forms in Western music from the Middle Ages to the present, directed towards the understanding of musical organization, styles and concepts, and the development of critical aural perception and analysis; development of research techniques used in dealing with the materials of music. Required listening assignments, attendance at musical performances, introduction to libraries and museums dealing with music.

√ **Music 110.** Basic Theory I. 3 hrs.; 3 cr. *Prereq:* None. Not credited toward fulfillment of Music major requirements.

Introduction to the fundamentals of music theory and its notation. Topics include scales, key signatures, intervals, transposition, chords, and simple song writing.

√ **Music 111.** Basic Theory II. 3 hrs.; 3 cr. *Prereq:* Music 110 or placement by examination.

Continuation of Music 110. Topics include seventh-chords, chord progressions, modulation, song writing, and theory. Offered Spring semesters.

☆ **Music 131, 231, 331, 431.** Gospel Choir I-IV. 3 hrs. each; 1 cr. each semester. *Prereq:* Permission of instructor.

Performance of music for mixed voices in the Afro-American tradition. *Not offered on a regular basis. Availability to be determined by the department.*

☆ **Music 135, 235, 335, 435.** Guitar Workshop I-IV. 4 hrs. each; 2 cr. each.

Basic techniques of jazz performance. Students employ principles of jazz improvisation on the guitar, and are introduced to the techniques of ensemble playing. *Not offered on a regular basis. Availability to be determined by the department.*

☆ **Music 136, 236, 336, 436.** Chorus I-IV. 4 hrs. each; 2 cr. each semester. *Prereq:* Permission of instructor.

Study and performance of selected choral master works.

☆ **Music 137, 237, 337, 437.** Chamber Choir I-IV. 3 hrs. each; 1 cr. each semester. *Prereq:* Permission of instructor.

Study and performance of music for small vocal groups, particularly a cappella choral music. Offered Spring semesters. *Not offered on a regular basis. Availability to be determined by the department.*

☆ **Music 139, 239, 339, 439.** Jazz Workshop I-IV. 4 hrs. each; 2 cr. each semester. *Prereq:* Permission of instructor.

Performance of contemporary jazz-rock compositions; the study of ensemble and solo techniques. Students employ jazz improvisation principles with voices and instruments and are introduced to the synthesizer as used in jazz performance.

☆ **Music 141, 241.** Class Instruction in Piano I-II. 1 hr. each; 1 cr. each semester. *Prereq:* Music 110 and permission of instructor. Music 141 is prerequisite for Music 241.

- The study of keyboard literature to suit the level of the individual student. *Not offered on a regular basis. Availability to be determined by the department.*
- ☆ **Music 142, 242.** Class Instruction in String Instruments I-II: Violin and Viola. 2 hrs. each; 1 cr. each semester. *Prereq: Ability to read music and permission of instructor.* Music 142 is prerequisite for Music 242.
Group instruction for beginning students on violin, viola, cello, and bass, with emphasis on teaching procedures. *Not offered on a regular basis. Availability to be determined by the department.*
- ☆ **Music 143, 243.** Class Instruction in Guitar I-II. 2 hrs. each; 1 cr. each semester. *Prereq: Ability to read music and permission of instructor.* Music 143 is prerequisite for Music 243.
Basic principles in guitar techniques; practice in performing simple compositions, with an emphasis on teaching procedures. *Not offered on a regular basis. Availability to be determined by the department.*
- ☆ **Music 144, 244.** Class Instruction in Woodwind Instruments I-II. 2 hrs. each; 1 cr. each semester. *Prereq: Ability to read music and permission of instructor.* Music 144 is prerequisite for Music 244.
Basic principles of woodwind techniques; practice in performing simple compositions, with an emphasis on teaching procedures. *Not offered on a regular basis. Availability to be determined by the department.*
- ☆ **Music 145, 245.** Class Instruction in Brass Instruments I-II. 2 hrs. each; 1 cr. each semester. *Prereq: Ability to read music and permission of instructor.* Music 145 is prerequisite for Music 245.
Basic principles of brass techniques; practice in performing simple compositions, with emphasis on teaching procedures. *Not offered on a regular basis. Availability to be determined by the department.*
- ☆ **Music 146, 246.** Jazz Improvisation I-II. 4 hrs. each; 2 cr. each semester. *Prereq: Permission of instructor.*
Introduction to the basic principles of jazz improvisation. The study of jazz scales, harmonic progressions, and rhythm concepts. Solo transcriptions, analysis, and reconstruction. *Not offered on a regular basis. Availability to be determined by the department.*
- √ **Music 210.** Intermediate Musicianship I. 3 hrs.; 2 cr. *Prereq: Music 111. To be taken simultaneously with Music 220.* Not open to students with credit in Music 212.
Sight-singing, ear-training and rhythm; fixed syllables; introduction to C clefs and atonality. Offered Fall semesters.
- √ **Music 211.** Intermediate Musicianship II. 3 hrs.; 2 cr. *Prereq: Music 210. To be taken simultaneously with Music 221.* Not open to students with credit in Music 213.
Continuation of Music 210; introduction to transposition; sight-singing of Renaissance music in original clefs; florid Baroque rhythms.
- √ **Music 220.** Harmony and Counterpoint I. 3 hrs.; 3 cr. *Prereq: Music 111. Coreq: Music 210.*
The study of harmonic principles of the eighteenth century and their application to commercial song writing. Topics include modulation, simple formal structures, chord progressions, writing, and analysis. Offered Fall semesters.
- √ **Music 221.** Harmony and Counterpoint II. 3 hrs.; 3 cr. *Prereq: Music 220. Coreq: Music 211.*
Continuation of Music 220. Topics include complex formal structures, transition material, writing and analysis. Offered Spring semesters.
- √ **Music 225.** Computer Music I. 3 hrs.; 3 cr. *Prereq: None.*
Introduction to use of microcomputers for sound synthesis. Topics include wave form synthesis, digital sampling, multi-track recording, and MIDI interfaces.
- √ **Music 250.** Afro-American Music in the United States. 3 hrs.; 3 cr. *Prereq: None.*
Survey of the music of Black people in the United States from colonial times to the present; emphasis on its unique features and on its contribution to American culture. Offered Fall semesters.
- √ **Music 253.** History of Jazz. 3 hrs.; 3 cr. *Prereq: None.*
Survey of the history of jazz from its origin to the present: New Orleans style; Chicago jazz, Kansas City and Count Basie; the swing era (Duke Ellington, Benny Goodman); Charlie Parker; jazz of the 50's and 60's. Offered Spring semesters.
- √ **Music 291.** Keyboard Harmony. 3 hrs.; 1 cr. *Prereq: Music 111 and 241.*
Harmonization of melodies, chord progressions, developing skills in commercial and jazz vocal and instrument accompaniment, the technique of modulation at the keyboard.
- √ **Music 310.** Advanced Musicianship I. 3 hrs.; 2 cr. *Prereq: Music 211. Coreq: Music 320.* Not open to students with credit in Music 312.
Advanced sight-singing, ear training and rhythm; reading transposed parts from orchestral scores; changing meters; the tritone in atonal music. Offered Fall semesters.
- √ **Music 311.** Advanced Musicianship II. 3 hrs.; 2 cr. *Prereq: Music 310. Coreq: Music 321.* Not open to students with credit in Music 313.
Continuation of Music 310; horizontal and vertical reading of full orchestral scores; complex 20th century rhythms; sixths, sevenths and wide leaps in atonal music. Offered Spring semesters.
- √ **Music 320.** Harmony and Counterpoint III. 3 hrs.; 3 cr. *Prereq: Music 221. Coreq: Music 310.*
The study of harmonic principles of the nineteenth century and their application to commercial song writing. Topics include irregular chord resolutions, implied modulations, writing, and analysis. Offered Fall semesters.

- ✓ **Music 321.** Harmony and Counterpoint IV. 3 hrs.; 3 cr. *Prereq: Music 320. Coreq: Music 311.*

The study of contrapuntal techniques of the sixteenth and seventeenth centuries and their application to commercial song writing. Topics include canon, invention, fugue, writing, and analysis. Offered Spring semesters.

- ✓ **Music 322.** Analysis of Musical Structure and Design. 3 hrs.; 3 cr. *Prereq: Music 320.*

Analysis of selected musical examples with regard to the basic principles of form and organization. Offered Fall semesters.

- ✓ **Music 324.** Twentieth-Century Techniques. 3 hrs.; 3 cr. *Prereq: Music 320.*

Techniques and procedures of 20th century composition; melodic, harmonic, contrapuntal, formal, and structural bases of modern and contemporary music. Offered Spring semesters.

- ✓ **Music 326.** Computer Music II. 3 hrs.; 3 cr. *Prereq: Music 225.*

Continuation of Music 225. Topics include MIDI interfaces, writing and/or arranging.

Music 350. History of Music I. 3 hrs.; 3 cr. *Prereq: Music 221.*

Music history in the Western tradition from the period of Gregorian Chant through the early Baroque; emphasis on the development of musical styles and techniques during these periods; examination of contemporary musical sources and treatises. Offered Fall semesters.

- ✓ **Music 351.** History of Music II. 3 hrs.; 3 cr. *Prereq: Music 350.*

Continuation of Music 350; the 18th and 19th centuries. Offered Spring semesters.

- ✓ **Music 420.** Instrumentation. 3 hrs.; 3 cr. *Prereq: Music 320.*

Scoring for small and large instrumental ensembles, including orchestra, jazz ensemble, and band. Microcomputers and digital sampling systems are used to perform arrangements. Offered Spring semesters.

- ✓ **Music 422.** Conducting. 3 hrs.; 3 cr. *Prereq: Music 322 and 420.*

Basic principles of conducting and score reading; analysis of selected choral and orchestral works. Offered Fall semesters.

- ✓ **Music 425.** Composition I. 3 hrs.; 3 cr. *Prereq: Music 320.*

Original writing in various styles, with emphasis on the small forms. Microcomputers, MIDI interfaces, and digital sampling systems are used to perform compositions. Offered Fall semesters.

- ✓ **Music 426.** Composition II. 3 hrs.; 3 cr. *Prereq: Music 425.*

Continuation of Music 425. Emphasis on composing sound-tracks for computer generated graphic displays. Offered Spring semesters.

- ✓ **Music 429.** Seminar in Theory and Composition. 3 hrs.; 3 cr. *Prereq: Music 324.*

Advanced studies emphasizing original student writing for various

media, including full orchestra, in the larger musical forms; analysis of selected significant 20th century works; consideration of theoretical problems in contemporary music.

- ✓ **Music 450.** History of Music III. 3 hrs.; 3 cr. *Prereq: Music 351.*

Continuation of Music 351; musical developments and styles from Debussy to the present. Offered Fall semesters.

- ✓ **Music 461.** Jazz Style and Techniques. 3 hrs.; 3 cr. *Prereq: Permission of instructor.*

Detailed investigation into the musical styles of jazz, with special emphasis on the major jazz artists who have helped to create and shape them. Offered alternate Spring semesters.

- ✓ **Music 490.** Music Research – Independent Study. Hours arranged; 3 cr. *Prereq: Permission of instructor.*

Investigation of selected musical sources and theoretical writings on music. Individual projects..

Natural Science

- ✓ **Natural Science 100.** Concepts and Methods of Science. 2 hrs. lecture; 1 hr. recitation; 1 hr. CAI Laboratory; 2 cr. Pass/No Credit grade. *Prereq: By placement and advisement only.* (Not a required course.) Not credited toward fulfillment of Science Distribution requirements.

Basic methods of the natural sciences and their application and uniqueness; the development of scientific concepts and their translation into mathematical language; discussion of motion, energy, and matter; chemical principles; biological and geological terminology. Computer assisted instruction and science laboratory experiences required. Knowledge of mathematics at the level of Mathematics 100 is expected.

- ✓ **Natural Science 370.** Honors Research Seminar.

2 hrs. lecture/seminar bi-weekly; 1 cr.; *Prereq: English 125, General Education Math Requirement, Junior Status with GPA of 2.9 or higher, and permission of instructor.*

An interdisciplinary honors program of special topics and individual study in advanced methods and concepts in the natural and social sciences and their application, under the supervision of a team of faculty from Natural Sciences, Mathematics and Social Sciences. The topic presentation is organized in a workshop and seminar setting. Written paper required. Pass/fail grading only. Not credited toward fulfillment of any major or general education program requirements. Offered Fall semesters.

- ✓ **Natural Science 371.** Honors Research Seminar.

2 hrs. lecture/seminar bi-weekly; 1 cr.; *Prereq: English 125, General Education Math Requirement, Junior Status with GPA of 2.9 or higher, and permission of instructor.*

An interdisciplinary honors program of special topics and individual study in advanced methods and concepts in the natural and social sciences and their application, under the supervision of a team of faculty from Natural Sciences, Mathematics and Social Sciences. The topic presentation is organized in a workshop and seminar setting. Written paper required. Pass/fail grading only.

Not credited toward fulfillment of any major or general education program requirements. Offered Spring semesters.

- ✓ **Natural Science 470.** Honors Research Seminar.
2 hrs. lecture/seminar bi-weekly; 1 cr.; *Prereq: English 125, General Education Math Requirement, Junior Status with GPA of 2.9 or higher, and permission of instructor.*

An interdisciplinary honors program of special topics and individual study in advanced methods and concepts in the natural and social sciences and their application, under the supervision of a team of faculty from Natural Sciences, Mathematics and Social Sciences. The topic presentation is organized in a workshop and seminar setting. Written paper required. Pass/fail grading only. Not credited toward fulfillment of any major or general education program requirements. Offered Fall semesters.

- ✓ **Natural Science 471.** Honors Research Seminar.
2 hrs. lecture/seminar bi-weekly; 1 cr.; *Prereq: English 125, General Education Math Requirement, Junior Status with GPA of 2.9 or higher, and permission of instructor.*

An interdisciplinary honors program of special topics and individual study in advanced methods and concepts in the natural and social sciences and their application, under the supervision of a team of faculty from Natural Sciences, Mathematics and Social Sciences. The topic presentation is organized in a workshop and seminar setting. Written paper required. Pass/fail grading only. Not credited toward fulfillment of any major or general education program requirements. Offered Spring semesters.

Nursing

Nursing 201. Professional Nurse-Client Intersystem I. 3 hrs. lecture; 4 hrs. lab; 5 cr. *Prereq: Nursing 200 and written departmental permission.*

This course focuses on the use of the intersystems approach and nursing process to promote wellness in client systems in the child-bearing/childrearing stages of the life process. Commonly occurring health problems associated with pregnancy, the neonate and the child will be explored, in addition to the normal childbearing/childrearing processes. Clinical laboratory experiences provide opportunities for the implementation of the dependent professional nurse role in client interactions, primarily in institutional settings.

Nursing 203. Health Assessment and Wellness Promotion. 3 hrs. lecture; 4 hrs. lab.; 5 cr. *Prereq: Nursing 200 and written permission of the Nursing Director.*

The Nursing Process and Intersystem framework will be utilized to assist the student in developing biopsychosocial/cultural health assessment skills as a basis for diagnosing and treating human responses to actual or potential health problems. Teaching/Learning principles will be utilized in assisting client systems with greater potential for wellness to maintain high level wellness. College laboratory experiences are provided to assist the student in developing health assessment and teaching/learning skills. Offered Spring semesters.

Nursing 301. Values in Transition: Perspectives of Professional Nursing. 4 hrs. lecture; 2 hrs. lab.; 5 cr. *Prereq: Admission to the Nursing Program and written permission of the Nursing Director.*

This course introduces theory development, critical inquiry, the research process, general systems theory and nursing process as a foundation for socialization/resocialization into professional nursing practice. Exploration of values of the self system as an evolving member of the professional nursing system. Planned learning experiences in the college laboratory are designed to assist the student in developing beginning professional skills in the cognitive, affective and psychomotor domain. Offered Fall semesters.

Nursing 311. Professional Nurse-Client Intersystem II. 3 hrs. lecture; 4 hrs. lab; 5 cr. *Prereq: Nursing 201, 203, and admission to the Nursing major.*

This course focuses on the use of the intersystems approach and the nursing process to promote wellness of the adult client with commonly occurring physiological health problems. Clinical laboratory experiences provide opportunities for the implementation of the interdependent professional nurse role in client interactions in a variety of community settings.

Nursing 312. Professional Nurse-Client Intersystem III. 3 hrs. lecture; 4 hrs. lab; 5 cr. *Prereq: Nursing 303, 311.*

This course utilizes the intersystems approach and the nursing process to promote the mental health of client systems throughout the life process. Commonly occurring mental disorders affecting individual, group and family client systems are explored. Clinical laboratory experiences provide opportunities for selected interdependent professional nurse-client interactions in collaboration with professional mental health team members in varied community mental health settings.

Nursing 314. Management and Leadership in Professional Nursing/Client Intersystems. 3 hrs.; 3 cr. *Prereq: Nursing 301.* Not open to students with credit in Nursing 304.

This course introduces the process of decision-making, leadership, management, change, collaboration and advocacy as a basis for planning strategies which facilitate the professional nurse-individual/family/group intersystems in the promotion and maintenance of health. Topics such as quality assurance and peer review will be analyzed. Offered Spring semesters.

Nursing 315. Professional Nurse-Family and Community Intersystem I. 3 hrs. lecture; 6 hrs. field work; 6 cr. *Prereq: Nursing 203, 301.* Not open to students with credit in Nursing 305.

The nursing and epidemiological processes are utilized to initiate change in professional nurse interactions of multi-cultural family/community-environment intersystems throughout the life process for health maintenance and promotion. Theories related to group dynamics are explored to reinforce leadership/management, teaching/learning and decision-making skills. Clinical laboratory experiences are provided in a variety of community setting. Offered Spring semesters.

Nursing 405. Professional Nurse-Family and Community Intersystem II: Disruption in Health Pattern. 3 hrs. lecture; 6 hrs.

lab.; 6 cr. *Prereq:* Nursing 314, 315; Biology 336 and written permission of instructor.

The Nursing Process and Intersystem framework will be utilized in complex professional nurse/client-environment interactions with populations who are experiencing actual or potential decreasing levels of bio-psychosocial cultural wellness. Contemporary concepts of community mental health nursing theory are integrated to facilitate a higher level of wellness with client systems throughout the life process. Concepts related to the final stage of growth (the dying process) are incorporated. Clinical experiences will take place in acute care, long term care, and varied community settings, including services for the developmentally disabled, psychogeriatric population and victims of domestic violence. Offered Fall semesters.

Nursing 406. Professional Nurse-Societal and Community Client Intersystems: Emergent Evolution. 3 hrs. lecture; 3 crs.

Prereq/Coreq: Nursing 405 and written permission of the Director of the Nursing Program.

Integrative knowledge of the liberal arts, nursing theory and general systems theory are utilized to analyze the interrelatedness of selected societal and community systems and the health of human systems. The concepts of power, politics, policy and change are employed to explore the emerging and evolving roles of the professional nurse as a catalyst for planned change to improve health/nursing care delivery and the health of human systems. Selected field trips (i.e., health care facility, educational institutions, Supreme Court, professional nursing association, etc.) Offered Fall semesters.

Nursing 407. Professional Nurse-Client Intersystem: Practicum. 6 hrs. lab; 3 crs. *Prereq:* Nursing 405, 406 and written permission of the Director of the Nursing Program.

This course provides the opportunity for the emerging professional nurse to reinforce and expand the knowledge base in professional nursing. Synthesizing knowledge and skills from the liberal arts and nursing theory, the student utilizes the research approach in the in-depth study of a professional nurse-client intersystem-environment interaction in a clinical practicum. Under the tutelage of faculty, the student will pursue the study project in a community health, acute care, long term care or other selected clinical setting. Student-conducted clinical conferences and seminars will provide opportunities for active and accountable participation of students in the sharing of learning experience. Offered Spring semesters.

Occupational Therapy

All students must have their programs approved by O.T. Advisors.

Health Professions OT 312. Clinical Kinesiology/Lecture. 3 hrs., 4 crs lecture; 2 hrs., 0 crs lab. *Prereq:* HPOT 315 and permission of O.T. Faculty

The human system and its capacity to move and act; aspects which relate to the functional use of the arms, hands, legs and trunk in doing purposeful activities and in locomotion. Offered Fall semesters.

Health Professions OT 313. Fundamentals of Occupational Therapy. 3 hrs.; 3 cr. *Prereq:* Permission of Occupational Therapy Faculty.

An introduction to the profession of Occupational Therapy and its various theoretical bases; examination of fundamental principles of Occupational Therapy, such as awareness, goal-oriented activities, the collaborative experience, self-actualization and the needs of groups. Offered Fall semesters.

Health Professions OT 315. Gross Anatomy for Human Function. 2 hrs. lecture; 3 hrs. lab.; 3 cr. *Prereq:* Biology 202. *Coreq:* HPOT 312.

Exploration of gross structure and systems of the human body, skeletal, muscular, nervous, circulatory, respiratory, digestive, endocrine, reproductive, urogenital and integumentary systems, laboratory dissection of cats, observation of human models. Offered Fall semesters.

Health Professions OT 316. Physiological Basis of Human Health. 2 hr. lecture; 3 hrs. lab.; 3 cr. *Prereq:* Biology 202. *Coreq:* HPOT 315. Not credited toward fulfillment of Biology major requirements.

Exploration of the physiological functioning of the human body and its relationship to health; skeletal, muscular, nervous, circulatory, respiratory, digestive, endocrine, reproductive, urogenital and integumentary systems. Offered Spring semesters.

Health Professions OT 321. Occupational Analysis. 4 hr. ; 3 cr. *Prereq:* HPOT 313-Fundamentals of Occupational Therapy.

Analysis and therapeutic application of manual skills; design, and processes in selected media. Offered Fall semesters.

Health Professions OT 322. Activities for Maturation and Growth. 3 hrs.; 3 cr. *Prereq:* HPOT 321; Psychology 215, 216.

Examination of the tasks and activities that are necessary and possible in the role behaviors at various stages in the life cycle; critical events and activities as they relate to self-actualization of the human system. Offered Fall semesters.

Health Professions OT 323. Collaboration in Occupational Therapy. 4 cr. *Prereq:* HPOT 313

Introduction to problems and methods involved in the helping process in Occupational Therapy, motivational theory, self-awareness and impact; examination of attitudes about self-help, disability, "professionalism;" problem solving and group process method. Offered Spring semesters.

Health Professions OT 414. Integrations of System Theory. and the Human Sub-System 4 cr. *Prereq:* HPOT 323.

System theory and its relation to people and their environments; the concepts of patterns, arrangements, integration and homeostasis, as they apply to a variety of systems and sub-systems, i.e., hospital, bodily system, social group, activity, community, economics. Offered Spring semesters.

Health Professions OT 432. Problems of the Neurological System. 3 hrs.; 3 cr. *Prereq:* HPOT 314 and permission of Occupational Therapy faculty.

Diseases, lesions and defects of the central, peripheral, and autonomic nervous systems. Offered Fall semesters. eutic techniques will be presented. Offered Spring semesters.

Health Professions OT 520.* Capstone Seminar: Collaboration in the Community. 3 cr. *Prereq:* Permission of Occupational Therapy faculty.

Advanced exploration of Occupational Therapy in the community: theory and practice.

Health Professions OT 641.*Fieldwork II Occupational Therapy: Practice I 3 cr. *Prereq:* HPOT 507, 510, 512,513, 520 and permission of Occupational Therapy faculty.

Professionally supervised clinical experience.

Health Professions OT 642.* Fieldwork II Occupational Therapy: Practice II 3 cr. *Prereq:* HPOT 507, 510, 512,513, 520 and permission of Occupational Therapy faculty.

Professionally supervised clinical experience.

* Students who enroll in a semester for HPOT 441 or 442 or 443 with either 441 or 442, will be considered as registered for a full-time program. They may, therefore, apply for financial aid. For further information, please consult our Financial Aid Office.

Philosophy

- ✓ **Philosophy 101.** Freedom and Reason 3hrs lecture, 3 crs. *Prereq:* None
Engages students in the development of reasoning and communication by learning to follow arguments in short selections on freedom, knowledge, and other ideas related to the objective of human growth through education. Regular informal writing on the readings, as well as graded essays, will use writing as a way to learn.
- ✓ **Philosophy 102.** Beginning Informal Logic. 3 hrs.; 3 cr. *Prereq/Coreq:* English 125.
The nature of informal or ordinary argument and the major fallacies; the student is introduced to the nature and function of definition, propositions, vagueness, ambiguity, equivocation, and devices for handling them.
- ✓ **Philosophy 103.** Introduction to Philosophy. 3 hrs.; 3 cr. *Prereq/Coreq:* English 125.
Basic concepts and techniques of philosophical thinking.
- ✓ **Philosophy 104.** Introduction to Knowledge and Value. 3 hrs.; 3 cr. *Prereq/Coreq:* English 125.
Examines the nature of and relations between knowledge and value; provides a survey of elementary theories of science and knowledge, and of selected problems in philosophy of art, moral problems, and politics, and business. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Philosophy 121.** Beginning Deductive Logic. 3 hrs.; 3 cr. *Prereq/Coreq:* English 125.
Introduction to the logic of propositions and arguments.
- ✓ **Philosophy 122.** The Philosophy of Science. 3 hrs; 3 cr. *Prereq/Coreq:* English 125.
An introduction to classical and contemporary theories of science, what it is and how it works. The sciences are examined with an emphasis on case studies of selected major scientists. Not open to students with credits for Philosophy 222.
- ✓ **Philosophy 151.** Social Issues. 3 hrs. ; 3 cr. *Prereq/Coreq:* English 125. Not open to students who have completed Philosophy 251.
Social, ethical and political issues discussed in terms of their philosophical implications. Sample topics are: racism, sexism, justice and the social good, democratic vs. elitist politics, mass vs. elitist education.
- ✓ **Philosophy 202.** Major Ideas and Issues in Education. 3 hrs.; 3 cr. *Prereq:* English 125
An introduction to the major historical, philosophical, and sociological ideas in American Education, including the history of schooling in the United States. Historical threads from a variety of multicultural perspectives will be presented, and philosophical approaches from selected global thinkers will be discussed. The student will be encouraged to develop his/her own unique philosophy of education. Includes fieldwork. Required for all teacher education students.
- ✓ **Philosophy 203.** Philosophy of Women. 3 hrs.; 3 cr. *Prereq:* Philosophy 102 or 103 or 121 or 122 or 151.
Examination of women's philosophical works including theories of women and philosophical works about women written by well-known philosophers; examination of the formation of the canon of philosophy. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Philosophy 204.** Philosophy and Literature. 3 hrs.; 3 cr. *Prereq:* Philosophy 102 or 103 or 121 or 122 or 151.
Philosophical issues presented in works of literature. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Philosophy 208.** Biomedical Ethics. 3 hrs.; 3 cr. *Prereq:* Philosophy 102 or 103 or 121 or 122 or 151.
Basic issues in biomedical ethics: abortion, euthanasia, animal experimentation, truth-telling to patients, informed consent, genetic engineering, the ethics of experimentation, allocation of scarce medical and research resources. *Offered every summer.*
- ✓ **Philosophy 211.** Ancient Philosophy. 3 hrs.; 3 cr. *Prereq:* Philosophy 102 or 103 or 121 or 122 or 151.
Philosophy from the Pre-Socratics to Marcus Aurelius.
- ✓ **Philosophy 213.** Modern Philosophy. 3 hrs.; 3 cr. *Prereq:* Philosophy 102 or 103 or 121 or 122 or 151.
Philosophy from the Renaissance through the 19th century.

- ✓ **Philosophy 217.** Philosophies of India. 3 hrs.; 3 cr. *Prereq: Philosophy 102, or 103, or 121, or 122 or 151.*
 An introduction to Indian Philosophy with attention to both its unity and diversity across the Indian sub-continent. Consideration will be given to its origins and formative development in response to and influence on fundamental social institutions, religious thought and practice, literary achievements, and modern challenges.
- ✓ **Philosophy 218.** Latin American Philosophy. 3 hrs.; 3 cr. *Prereq: Philosophy 102, or 103, or 121, or 122 or 151.*
 An introduction to the development of philosophy in Latin America from colonial times to the present.
- ✓ **Philosophy 219.** American Philosophy. 3 hrs.; 3 cr., *Prereq: Philosophy 102 or 103 or 121 or 122 or 151.*
 Philosophy in the United States from the writings of the Founders to the 20th Century.
- ✓ **Philosophy 224.** Philosophical Problems of the Social Sciences. 3 hrs.; 3 cr. *Prereq: Philosophy 102 or 103 or 121 or 122 or 151.*
 Different conceptions of what the social sciences are, their relation to the natural sciences, and their potential value to humanity. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Philosophy 231.** Philosophical Issues About Business. 3 hrs.; 3 cr. *Prereq: Philosophy 102 or 103 or 121 or 122 or 151.*
 An examination of ethical and social issues concerning business. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Philosophy 241.** Philosophical Psychology. 3 hrs.; 3 cr. *Prereq: Philosophy 102 or 103 or 121 or 122 or 151.*
 Various classical and contemporary theories of the nature of the mind and its relation to the body. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Philosophy 261.** Existentialism. 3 hrs.; 3 cr. *Prereq: Philosophy 102 or 103 or 121 or 122 or 151.*
 The themes unifying the existentialist movement in 19th and 20th century continental philosophy, from Kierkegaard to Sartre and Camus. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Philosophy 341.** Contemporary Philosophy. 3 hrs.; 3 cr. *Prereq: Philosophy 102 or 103 or 121 or 122 or 151.*
 Selected major contemporary philosophers and schools including representatives of Continental and Anglo-Saxon movements. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Philosophy 351.** Ethics. 3 hrs.; 3 cr. *Prereq: Philosophy 102 or 103 or 121 or 122 or 151.*
 Major writings in ethics. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Philosophy 352.** Philosophy of Art. 3 hrs.; 3 cr. *Prereq: Philosophy 102 or 103 or 121 or 122 or 151.*
 Problems in the philosophy of art. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Philosophy 353.** Social and Political Philosophy. 3 hrs.; 3 cr. *Prereq: Philosophy 102 or 103 or 121 or 122 or 151.*
 Basic philosophical issues involved in theories of man and society. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Philosophy 354.** Philosophy of Religion. 3 hrs.; 3 cr. *Prereq: Philosophy 102 or 103 or 121 or 122 or 151.*
 Philosophical issues in major writings on the nature and being of God and the religious experience. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Philosophy 355.** The Philosophy of Love and Friendship. 3 hrs.; 3 cr. *Prereq: Philosophy 102 or 103 or 121 or 122 or 151.*
 Problems of love, its origin in human nature and the objects to which we are attracted, from other bodies to other minds, communities, truth, and God.
- ✓ **Philosophy 356.** Philosophy of Law. 3 hrs.; 3 cr. *Prereq: Philosophy 102 or 103 or 121 or 122 or 151.*
 Basic philosophical issues concerning law. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Philosophy 357.** Philosophy of History. 3 hrs.; 3 cr. *Prereq: Philosophy 102 or 103 or 121 or 122 or 151.*
 The special nature of historical knowledge and historical thinking. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Philosophy 358.** Philosophy of Language. 3 hrs.; 3 cr. *Prereq: Philosophy 102 or 103 or 121 or 122 or 151.*
 Implications of the structure and use of natural and artificial languages for the nature of the mind, meaning, and reality. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Philosophy 460.** Seminar. 3 hrs.; 3 cr. *Prereq: Philosophy 102 or 103 or 121 or 122 or 151 and Writing 301.*
 Problem or philosophical system examined in detail. May be repeated for credit with consent of advisor. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Philosophy 497-499.** Independent Study. Hours arranged; 3 cr. each. *Prereq: Philosophy 102 or 103 or 121 or 122 or 151 and Writing 301.*
 Philosophical inquiry on a problem determined by the student in consultation with the philosophy faculty.

Physical Education

Physical Education 141. Weight Training. 2 hrs.; 1 cr. *Graded on a Pass/No Credit (NC) basis except for physical education majors.* History and benefits of weight training, training principles and procedures related to weight training, implementation of a personal weight training program.

Physical Education 150. Fitness for Living. 3 hrs.; 2 cr. *Prereq: None.* Not open to students with credit in Health Education 150. *Graded on a Pass/No Credit (NC) basis except for physical education majors.*

The relationship of physical activity to health and the quality of life; basic principles of physical conditioning explored with the aid of the Human Performance Laboratory equipment; measurement and evaluation of personal physical fitness levels; design and pursuit of individual training programs; varied physical activity experience to meet the individual student's needs.

Physical Education 151. Basketball. 2 hrs.; 1 cr. *Prereq: None.* *Graded on a Pass/No Credit basis except for physical education majors.*

Basic skills leading up to actual competition; team play, rules, tactics, and strategy.

Physical Education 153. Wrestling. 2 hrs.; 1 cr. *Prereq: None.* *Graded on a Pass/No Credit basis except for physical education majors.*

Basic skills in free style college wrestling. *Availability to be determined by the department.*

Physical Education 154. Track and Field. 2 hrs.; 1 cr. *Prereq: None.* *Graded on a Pass/No Credit basis except for physical education majors.*

Basic skills in sprinting, distance running, relays, high jump, and all field events. *Not offered on a regular basis. Availability to be determined by the department.*

Physical Education 155. Fencing. 2 hrs.; 1 cr. *Prereq: None.* *Graded on a Pass/No Credit basis except for physical education majors.*

Basic skills in foil fencing. *Not offered on a regular basis. Availability to be determined by the department.*

Physical Education 156. Gymnastics I. 2 hrs.; 1 cr. *Prereq: None.* *Graded on a Pass/No Credit basis except for physical education majors.*

Fundamental skills in tumbling, trampolining, and gymnastic apparatus work. *Offered Spring semesters.*

Physical Education 157. Gymnastics II. 2 hrs.; 1 cr. *Prereq: Physical Education 156 or permission of instructor.* *Graded on a Pass/No Credit basis except for physical education majors.*

Intermediate and advanced gymnastic skills; emphasis on use of skills in creative gymnastic routines. *Offered Spring semesters.*

Physical Education 158. Football. 2 hrs.; 1 cr. *Prereq: None.* *Graded on a Pass/No Credit basis except for physical education majors.*

Techniques of blocking, passing, catching, running, and kicking; defensive line play, backfield play, team defense, team offense, the passing and kicking game; position play and game strategy.

Physical Education 159. Self-Defense Activities. 2 hrs.; 1 cr. *Prereq: None.* *Graded on a Pass/No Credit basis except for physical education majors.*

Basic skills in self-defense activities such as Karate and/or Judo.

Physical Education 162. Lacrosse. 2 hrs.; 1 cr. *Prereq: None.* *Graded on a Pass/No Credit basis except for physical education majors.*

Individual and team skills; formations and positional function; tactics and strategy in competition.

Physical Education 163. Softball. 2 hrs.; 1 cr. *Prereq: None.* *Graded on a Pass/No Credit basis except for physical education majors.*

Techniques of batting, running, throwing, and catching; position play and game strategy.

Physical Education 164. Soccer. 2 hrs.; 1 cr. *Prereq: None.* *Graded on a Pass/No Credit basis except for physical education majors.*

Individual and team skills; formations and positional function; tactics and strategy in competition.

Physical Education 165. Volleyball. 2 hrs.; 1 cr. *Prereq: None.* *Graded on a Pass/No Credit basis except for physical education majors.*

Basic skills leading up to actual competition; team play, rules, tactics, and strategy.

Physical Education 166. Yoga. 2 hrs.; 1 cr. *Prereq: None.* *Graded on a Pass/No Credit basis except for physical education majors.*

Beginning and intermediate postures of hatha yoga; philosophy and relaxation techniques.

Physical Education 167. Handball. 2 hrs.; 1 cr. *Prereq: None.* *Graded on a Pass/No Credit basis except for physical education majors.*

Elements of one-wall and four-wall handball; basic shots, strategy, competitive play, rules and scoring of singles and doubles games. *Availability to be determined by department.*

Physical Education 170. Canoeing. 2 hrs.; 1 cr. *Prereq: Ability to swim 75 yards.* *Graded on a Pass/No Credit basis except for physical education majors.*

Theory, techniques, and practice of canoeing. Includes class session, canoeing at nearby marina, and two day Delaware River field trip. Estimated student cost announced at registration. *Not offered on a regular basis. Availability to be determined by the department.*

Physical Education 171. Tennis. 2 hrs.; 1 cr. *Prereq: None. Graded on a Pass/No Credit basis except for physical education majors.*

Fundamental techniques of the game; basic strokes and court strategy; rules and scoring of singles and doubles games.

Physical Education 173. Folk and Social Dance. 2 hrs.; 1 cr. *Prereq: None. Graded on a Pass/No Credit basis except for physical education majors.*

Traditional and current dance favorites; dance skills and techniques of folk, square, ballroom, and novelty dances. *Offered Fall semesters.*

Physical Education 174. Golf. 2 hrs.; 1 cr. *Prereq: None. Graded on a Pass/No Credit basis except for physical education majors.*

Theory, rules, and etiquette of golf; basic skills. *Not offered on a regular basis. Availability to be determined by the department.*

Physical Education 176. Modern Dance I. 2 hrs.; 1 cr. *Prereq: None. Graded on a Pass/No Credit basis except for physical education majors.*

Fundamental movements and basic techniques; metrics, movement phrases, improvisation, and composition.

Physical Education 177. Small Boat Sailing. 2 hrs.; 1 cr. *Prereq: Ability to swim 75 yards. Graded on a Pass/No Credit basis except for physical education majors.*

All levels of ability, beginners to advanced; introduction to the techniques of small boat sailing; theory and practice of sailing, elements of seamanship, navigation, maintenance, and weather. Includes class lectures and sailing at local marina. Estimated student cost announced at registration. *Not offered on a regular basis. Availability to be determined by the department.*

Physical Education 178. Outdoor Living: Hiking and Backpacking. 2 hrs.; 1 cr. *Prereq: None. Graded on a Pass/No Credit basis except for physical education majors.*

Essentials of hiking, backpacking and outdoor living. Includes classroom sessions and four day Adirondack or Catskill Mountains trip. Estimated student cost announced at registration.

Physical Education 179. Skiing. 2 hrs.; 1 cr. *Prereq: None. Graded on a Pass/No Credit basis except for physical education majors.*

Introduction to downhill skiing. Includes classroom sessions and field trips. Estimated student cost announced at registration.

Physical Education 181. Badminton. 2 hrs.; 1 cr. *Prereq: None. Graded on a Pass/No Credit basis except for physical education majors.*

Fundamental techniques of the game; basic strokes and court strategy; rules and scoring of singles and doubles game.

Physical Education 182. Swimming for Non-Swimmers. 2 hrs.; 1 cr. *Prereq: None. Graded on a Pass/No Credit basis except for physical education majors.*

Individualized program to assist non-swimmer develop basic skills, leading to elementary swimming strokes.

Physical Education 183. African Dance. 2 hrs.; 1 cr. *Prereq: None. Graded on a Pass/No Credit basis except for physical education majors.*

Techniques, practice, and rhythms in African dance. *Not offered on a regular basis. Availability to be determined by the department.*

Physical Education 271. Competitive Tennis. 2 hrs.; 1 cr. *Prereq: Physical Education 171 or permission of instructor. Graded on a Pass/No Credit basis except for physical education majors.*

Advanced strokes and court strategy in playing competitive singles and doubles tennis.

Physical Education 277. Dance Composition. 2 hrs.; 1 cr. *Prereq: Physical Education 176 or permission of instructor. Graded on a Pass/No Credit basis except for physical education majors.*

Basic elements of choreography, solo, and group work. *Not offered on a regular basis. Availability to be determined by the department.*

Physical Education 278. Modern Dance II. 2 hrs.; 1 cr. *Prereq: Physical Education 176 or permission of instructor. Graded on a Pass/No Credit basis except for physical education majors.*

Intensive study of Modern Dance techniques; emphasis on movement exploration and individual and group composition.

Physical Education 279. Leadership in Outdoor Living. 2 hrs.; 1 cr. *Prereq: Physical Education 178 or permission of instructor. Graded on a Pass/No Credit basis except for physical education majors.*

Specialized training in planning and leading mountaineering and camping expeditions. Includes leadership of small group planning sessions, classroom sessions, and four day Adirondack or Catskill Mountains trip. Estimated student cost announced at registration.

Physical Education 280. Winter Mountaineering. 2 hrs.; 1 cr. *Prereq: Physical Education 178 or permission of instructor. Graded on a Pass/No Credit basis except for physical education majors.*

Mountaineering techniques applicable to winter weather conditions; focus on snowshoeing and cross-country skiing skills with additional emphasis on equipment needs to cope with low temperature, snow and ice. Field trips provide essential practical experience. Estimated student cost announced at registration. Offered Spring semesters.

Physical Education 282. Swimming. 2 hrs.; 1 cr. *Prereq: None. Graded on a Pass/No Credit basis except for physical education majors.*

Skill development in swimming; emphasis on individual development of good technique and stroke development.

Physical Education 284. Skin and Scuba Diving. 2 hrs.; 1 cr. *Prereq: Ability to swim 200 yards. Graded on a Pass/No Credit basis except for physical education majors.*

Basic use of Scuba gear leading to Professional Association of Diving Instructors (PADI) certification: safety techniques and theory of Scuba diving. *Not offered on a regular basis. Availability to be determined by the department.*

Physical Education 285. Senior Life Saving. 2 hrs. ; 1 cr. *Prereq: Ability to swim 200 yards. Graded on a Pass/No Credit basis except for physical education majors.*

Techniques of lifesaving and water rescue. Satisfactory completion certifies student for American Red Cross Senior Life Saving Certificate. *Not offered on a regular basis. Availability to be determined by the department.*

Physical Education 287. Water Safety Instructor. 3 hrs. ; 2 cr. *Prereq: Students must successfully pass the pre-course written and skills test (first session) on basic level community Water Safety skills and knowledge as well as evaluation on the following strokes: front crane, side stroke, breast stroke, elementary back stroke, butterfly, and a standing front dive from the deck.*

Theory techniques and practice of swimming instruction for American Red Cross aquatic programs. Satisfactory completion certifies student for American Red Cross Water Safety Instructor Certificate.

Physical Education 291 - 294. Independent Study in Physical Activity. 2 hrs. ; 1 cr. *Prereq: Physical Education 150 or permission of instructor. Not open to students with credit in Physical Education 330. Graded on a Pass/No Credit basis except for physical education majors.*

Planned program of study in a physical activity to be selected by the student. The program must be developed and approved in consultation with the physical education faculty. The student will be expected to demonstrate competency by written and practical evaluation.

Physical Education 295 - 296. Special Topic in Physical Activity. 2 hrs. ; 1 cr. *Prereq: None. Graded on a Pass/No Credit basis except for physical education majors.*

A selected area of physical activity which will vary with each offering. Students will learn rules, regulations, and techniques through physical participation in the activity. *Not offered on a regular basis. Availability to be determined by the department.*

✓ **Physical Education 310.** Perceptual-Motor Activities for Children. 3 hrs.; 2 cr. *Prereq: None.*

Analysis and application of sequentially developed activities to develop general coordination, balance, body image, eye-foot coordination, eye-hand coordination, eye movements, and sensory perception in children. *Not offered on a regular basis. Availability to be determined by the department.*

Physical Education 311. Creative Rhythms and Dance for Children. 2 hrs.; 1 cr. *Prereq: None.*

Movement-centered activities basic to children's dance development; concentration on fundamental movement, creative dance, folk dance, rhythmical activities, singing games, and square dance. *Not offered on a regular basis. Availability to be determined by the department.*

Physical Education 312. Educational Gymnastics for Children. 2 hrs.; 1 cr. *Prereq: None.*

Basic movement principles of educational gymnastics for children. *Not offered on a regular basis. Availability to be determined by the department.*

Physical Education 313. Games and Sports for Children. 2 hrs.; 1 cr. *Prereq: None.*

Application of movement principles to games and sports for children. *Not offered on a regular basis. Availability to be determined by the department.*

✓ **Physical Education 315.** Basic Movement. 2 hrs.; 2 cr. *Prereq: None.* Not open to students with credit in Physical Education 333.

Movement concepts and their application to physical activities. Students registering in this course are advised to register for Physical Education 471 or 472 concurrently. *Offered alternate Fall semesters.*

✓ **Physical Education 322.** Recreation, Organization and Leadership. 3 hrs.; 3 cr. *Prereq: None.* Not open to students with credit in Physical Education 320 and 321.

The function and organization of recreational services and principles of recreation leadership in the community. *Offered Spring semesters.*

✓ **Physical Education 345.** History of Dance. 3 hrs.; 3 cr. *Prereq: None.*

The history of dance from the earliest times, including ethnic dance and the development of ballet and modern dance, to the present. *Not offered on a regular basis. Availability to be determined by the department.*

✓ **Physical Education 346.** Understanding Dance. 3 hrs.; 3 cr. *Prereq: None.*

Analysis of contemporary dance emphasizing ballet and modern with particular attention to dance in New York City. Field visits to live dance experiences. *Not offered on a regular basis. Availability to be determined by the department.*

✓ **Physical Education 350.** Principles and Foundations of Physical Education. 2 hrs.; 2 cr. *Prereq: Open only to students who intend to major in physical education.*

The role of the physical educator in contemporary education; the study of scientific and philosophical principles and of historical foundations. *Offered alternate Spring semesters.*

✓ **Physical Education 353.** Physical Activity for Special Populations. 2 hrs.; 2 cr. *Prereq: None.*

Principles of physical activity for such special populations as the aged, retarded, emotionally ill and physically handicapped. Emphasis on the role of programs in community agencies, hospitals and schools.

✓ **Physical Education 354.** Sport and Society. 2 hrs.; 2 cr. *Prereq: Completion of Behavioral Science Area Requirements.*

Role of sport and physical activity in American life; sociological

implications of sport. Offered alternate Fall semesters.

- ✓ **Physical Education 355.** Psychology of Sport and Motor Performance. 2 hrs.; 2 cr. *Prereq: Completion of Behavioral Science Area Requirements. Not open to students with credit in Physical Education 450.*

Application of psychological concepts to the study of sports and skilled motor performance; influence of psychological variables upon the performance and behavior of the sports participant. *Not offered on a regular basis. Offered alternate Spring semesters.*

- ✓ **Physical Education 356.** The Acquisition of Sport and Movement Skills. 2 hrs.; 2 cr. *Prereq: Completion of Behavioral Science Area Requirements. Not open to students with credit in Physical Education 450.*

Application of learning theory to the acquisition of sport and gross motor skills; the effects of distribution of practice, reinforcement, transfer, methodology, and information feedback on the performance and learning of skills. Examination of psychological models appropriate to the teaching and learning of such skills. *Offered alternate Fall semesters.*

- ✓ **Physical Education 358.** Physiology of Exercise. 3 hrs.; 3 cr. *Prereq: Biology 281. Not open to students with credit in Physical Education 352.*

Physiological adjustments and changes occurring in human organisms as a result of physical activity; emphasis on the prophylactic and therapeutic effects of exercise, the role of muscular contraction and the cardiovascular system in exercise. *Offered alternate Fall semesters.*

- ✓ **Physical Education 360.** Theory and Techniques of Coaching. 2 hrs.; 2 cr. *Prereq: None.*

Techniques and methods of coaching individual, dual, and team sports; the coach's role in planning and implementing programs. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Physical Education 362.** Kinesiology. 3 hrs.; 3 cr. *Prereq: Biology 281*

Anatomy of skeletal and muscular systems, mechanics of bodily movement, and detailed muscular analysis of skills used in physical activity. *Offered Spring semesters.*

- ✓ **Physical Education 363.** Measurement and Evaluation in Health and Physical Education. 3 hrs.; 3 cr. *Prereq: Math 111. Not open to students with credit in Physical Education 451.*

Nature and purpose of measurement in health and physical education; analysis of pertinent tests and their use in evaluating performance in these areas. *Offered Fall semesters.*

- ✓ **Physical Education 452.** Cardiovascular Fitness. 4 hrs.; 3 cr. *Prereq: Physical Education 358 or equivalent preparation in Biology. Not open to students with credit in Health Education 452.*

The physiological and psycho-social aspects of cardiovascular fitness; status of heart disease and preventive programs, exercise stress testing, exercise prescription, and conduct of fitness activi-

ties. Students registering for this course are advised to register for Physical Education 473 or 474 concurrently. *Offered Spring semesters.*

- ✓ **Physical Education 461.** Professional Problems in Physical Education. 2 hrs.; 2 cr. *Prereq: Senior status and Physical Education major.*

Selection of individual project designed to acquaint prospective physical educator with problems of the profession; effective practical solutions sought through independent study and consultation with specialists. *Offered Fall semesters.*

Physical Education 471-472. Field Work in Physical Education and Recreation. 2 hrs.; 1 cr. each. *Prereq: Permission of Physical Education Faculty prior to registration.*

Supervised experience in the field under the guidance of a faculty advisor in physical education.

Physical Education 473-474. Field Work in Physical Education and Recreation. 4 hrs.; 2 cr. each. *Prereq: Permission of Physical Education Faculty prior to registration.*

Supervised experience in the field under the guidance of a faculty advisor in physical education.

- ✓ **Physical Education 482.** Organization, Administration and Supervision of Physical Education. 3 hrs.; 3 cr. *Prereq: Senior status and physical education major. Not open to students with credit in Health Education 481.*

Factors involved in the administration and supervision of programs, facilities, and personnel in physical education.

- ✓ **Physical Education 487.** Adult Fitness Programs. 3 hrs.; 3 cr. *Prereq: Junior status in departmental major.*

Planning, designing, managing, and evaluating adult fitness programs.

- ✓ **Physical Education 491-492.** Special Seminar in Physical Education. 2 hrs.; 2 cr. each. *Prereq: Senior status.*

Intensive study of a special area of interest in physical education. Topics will vary with each offering to reflect new trends and current thought in physical education.

- ✓ **Physical Education 493-494.** Special Seminar in Physical Education. 3 hrs.; 3 cr. each. *Prereq: Permission of instructor.*

Intensive study of a special area of interest in physical education. Topics will vary with each offering to reflect new trends and current thought in physical education.

- ✓ **Physical Education 495-496.** Independent Study in the Scientific Foundations of Physical Education. 2 hrs.; 2 cr. *Prereq: Agreement of faculty member to act as advisor.*

Investigation of a problem in the biological, sociological, and psychological foundations of physical education, determined by the student in consultation with a member of the Physical Education faculty.

- ✓ **Physical Education 497-498.** Independent Study in the Scientific Foundations of Physical Education. 1 hr.; 1 cr. Prereq: Agreement of faculty member to act as advisor.

Investigation of a problem in the biological, sociological and psychological foundations of physical education, determined by the student in consultation with a member of the physical education faculty.

Physical Education Athletic Training

Physical Education Athletic Training 310. Introduction to Athletic Training and Sports Medicine. 3 hrs. lecture, 3 cr., Prereq: BIO 281, and PE 315, Coreq: PEAT 318. Not open to students with credit in Physical Education 361

An introductory course in the prevention, evaluation and treatment of athletic injuries; acute care of injured athletes with emphasis on skeletal and soft tissue injuries.

Physical Education Athletic Training 318. Field Work: Introduction to Athletic Training and Sports Medicine 100 hrs.; 1 cr., Coreq: PEAT 310

The introductory supervised field experience in the prevention, evaluation and treatment of athletic injuries; acute care of injured athletes with emphasis on skeletal and soft tissue injuries.

Physical Education Athletic Training 320. Therapeutic Exercise and Evaluation 3 hrs.; 3 cr. Prereq: PEAT 310, and PE 362 Coreq: PEAT 328

Principals and methods of on field evaluations for athletic injuries; clinical therapeutic exercise post injury, and pre and post surgery.

Physical Education Athletic Training 328. Field Work: Therapeutic Exercise and Evaluation, 200 hrs.; 2 cr., Coreq: PEAT 320

Supervised clinical education experience under a NATA-certified athletic trainer, focusing on on-field evaluations for athletic injuries; clinical therapeutic exercise post injury, and pre and post surgery. The student will be assigned to the training therapy room at York College with the option of athletic competition coverage under other affiliated certified athletic trainers.

Physical Education Athletic Training 330. Scientific Basis in Athletic Training 3 hrs.; 3 cr. Prereq: PEAT 320, and PE 358 Coreq: PEAT 338

This course emphasizes the pathology of sports injuries and related conditions induced by training.

Physical Education Athletic Training 338. Field Work: Scientific Basis in Athletic Training. 200 hrs.; 2 cr. Coreq: PEAT 330

Supervised clinical education experience under a NATA-certified athletic trainer, which emphasizes the pathology of sports injuries and related conditions induced by training. The student will be assigned to the training therapy room at York College with the option of athletic competition coverage under other affiliated certified athletic trainers.

Physical Education Athletic Training 340. Modalities and Management Strategies in Athletic Training. 3 hrs.; 3 cr. Prereq: PEAT 330 Coreq: PEAT 348

Capstone course focuses on case studies in Athletic Training using various therapeutic modalities; management and creative problem solving in organization and administration in athletic training.

Physical Education Athletic Training 348. Field Work: Modalities and Management Strategies in Athletic Training, 300 hrs.; 3 cr. Coreq: PEAT 340

Supervised clinical education experience under a NATA-certified athletic trainer, focusing on case studies in Athletic Training using various therapeutic modalities; management and creative problem solving in organization and administration in athletic training. The student will locate an internship affiliation compatible with his/her interests and secure an internship with that agency.

Physics

- ✓ **Physics 101.** College Physics I. 6 credits: 3 hours lecture, 4 hrs. problem session, 2 hrs. lab; Co-requisite: Mathematics 121. Not open to students with credit in Physics 105 or Physics 107

An introduction to the basic concepts of physics: equilibrium, motion, Newton's laws, gravitation, work and energy, momentum, rotation, elasticity, harmonic motion, statics and dynamics of fluids, thermal properties of matter. In addition to the lectures and problem sessions, there will be laboratory experiments dealing with these subjects. An extra problem session is designed to strengthen students' application of calculus.

- ✓ **Physics 102.** College Physics II. 5 credits: 3 hrs. lecture, 2 hrs. problem session, 2 hrs. lab; Prereq: Physics I or 151. Not open to students with credit in Physics 106 or Physics 108

Continuation of Physics I. Topics include electrostatics, electro magnetism, electric current and circuits, introductory electronics, waves and acoustics, properties of light waves, optics, introduction to modern physics including atomic physics and relativity. In addition to the lectures and problem sessions, there will be laboratory experiments dealing with these subjects.

- ✓ **Physics 140.** The Physical Universe. 4 hrs.; 3 cr. Prereq: Completion of the mathematics core. Not credited towards fulfillment of the Physics Major.

This course provides an introduction to the laws and principles of the physical universe comprising: a study of force, motion, energy, heat, waves, electricity, magnetism, quanta, atoms and light, and survey of the solar system and the night sky.

- ✓ **Physics 151.** University Physics I. 3 hrs. lecture, 2 hours problem session, 2 hrs. lab; 5 cr. Coreq: Mathematics 121. Not open to students with credit in Physics 105 or Physics 107

An introduction to the basic concepts of physics: equilibrium, motion, Newton's laws, gravitation, work and energy, momentum, rotation, elasticity, harmonic motion, statics and dynamics of fluids, thermal properties of matter. In addition to the lectures and problem sessions, there will be laboratory experiments dealing with these subjects.

- ✓ **Physics 152.** University Physics II: 3 hours lecture, 2 hrs. problem session, 2 hrs. lab; 5 cr. *Prereq: Physics 101 or 151.*
Co-requisite: Mathematics 122 or its equivalent. Not open to students with credit in physics 106 or physics 108
Continuation of Physics 151 with calculus. Topics include electrostatics, electromagnetism, electric current and circuits, introductory electronics, waves and acoustics, properties of light waves, optics, introduction to modern physics including atomic physics and relativity. In addition to the lectures and problem sessions, there will be laboratory experiments dealing with these subjects.
- ✓ **Physics 211.** Mechanics I. 4 hrs.; 4 cr. *Prereq: Physics 106 or 108. Coreq: Mathematics 221.*
Vector algebra and derivatives, inertial reference frames and Galilean invariance, dynamics of a single particle, conservation laws, the harmonic oscillator, rigid body rotation, central forces, the Lorentz transformation, and special relativity. Offered Spring semesters.
- ✓ **Physics 241.** Modern Physics. 4 hrs.; 3 cr. *Prereq: Physics 106 or 108 and Mathematics 122.*
Special relativity, black body radiation, Planck's quantization law, radioactivity, discoveries of electron and nuclear atom, particle wave duality, Bohr atom, introduction to quantum theory, Schrodinger's equation, the hydrogen atom, high energy physics, modern experimental techniques. Offered Fall semesters.
- ✓ **Physics 282.** Weather and Climate. 2 hrs. lecture 2 hrs., lab 3 cr. *Prereq: None*
An introduction to the earth's atmosphere; its structure, composition and evolution. Climatology, including the Greenhouse Effect and Global Warming. Atmospheric phenomena, weather, acid rain and the degradation of the ozone layer. Laboratory work includes; collection of data from an on site weather station and on the Internet, computer models of atmospheric processes.
- ✓ **Physics 301.** Electronics Laboratory. 4 hrs. lab.; 2 cr. *Prereq: Physics 104.* Not open to students with credit in Physics 382.
Basic electronic circuits and components; troubleshooting; transducer characteristics, signal processing, data storage; interfacing with analogue and digital instruments. Offered Fall semesters.
- ✓ **Physics 321.** Electricity and Magnetism I. 4 hrs.; 4 cr. *Prereq: Physics 211 and Mathematics 222.*
Electrostatic fields and potentials. Vector operators and the vector integral theorems of Gauss and Stokes; Laplace's equation; electrodynamic fields of moving charges, the magnetic field and vector potential, inductance, Maxwell's equations, fields in matter. Offered Fall semesters.
- ✓ **Physics 341.** Introduction to Quantum Mechanics for Engineers and Scientists. 3 hrs.; 3 cr. *Prereq/Coreq: Physics 241/321, Math 222.* Not open to students with credit in Physics 441.
Schrodinger's equation, wave functions in X-Space and K-Space. Operators, eigenfunctions and eigenvalues. Potential well and barrier penetration, harmonic oscillator, periodic potentials, perturbation theory, WKB approximation, Fermi Statistics. Offered Spring semesters.
- ✓ **Physics 342.** Nuclear and Particle Physics. 3 hrs.; 3 cr. *Prereq: Physics 241 and Mathematics 221.*
Historical development; nuclear mass, stability, size, angular momentum, moments and parity; nuclear instability and decay; decay constants, alpha, beta, and gamma decay interaction of radiation with matter; detection and measurement of radiation; accelerators; nuclear models; nuclear reactions; elements of fundamental particle properties and symmetries. Offered alternate Fall semesters.
- ✓ **Physics 351.** Statistical Physics. 3 hrs.; 3 cr. *Prereq: Physics 211, 241 and Mathematics 221.*
The behavior of macroscopic systems of many particles; classical thermodynamics, statistical ensembles, canonical distribution, statistical thermodynamics; the kinetic theories of transport to explain specific heat of solids and thermal and electrical conductivity. Offered alternate Spring semesters.
- ✓ **Physics 383.** Modern Physics Laboratory. 4 hrs. lab.; 2 cr. *Prereq: Physics 241 and 281 or permission of instructor.*
Laboratory in atomic and nuclear physics; Millikan oil drop, e/m, Franck-Hertz experiments; nuclear particle detectors and associated instrumentation; statistical analysis of data; calibration of instruments and systems. Offered alternate Spring semesters.
- ✓ **Physics 412.** Advanced Mechanics. 3 hrs.; 3 cr. *Prereq: Physics 211 and Mathematics 222.*
Background for advanced topics in quantum mechanics and theoretical physics; variational principles: Lagrange and Hamiltonian mechanics; Euler's angles; the gyroscope; coupled oscillatory systems; Poisson and commutation brackets. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Physics 422.** Electricity and Magnetism II. 3 hrs.; 3 cr. *Prereq: Physics 321 and Mathematics 311.*
Dipole and multipole fields; solutions of potential problems; the electrostatic field in dielectric media; transient currents; applicants of Maxwell's equations; the Lienard Wiechert potentials and radiation from accelerated charges. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Physics 431.** Waves and Optics. 4 hrs.; 4 cr. *Prereq: Physics 321.*
Various phenomena associated with wave properties of light and, by extension, with any waves; geometric optics, wave description, superposition, beats, harmonics, Doppler effect, scattering and index of refraction, polarization, interference, diffraction, coherence; the elements of Fourier transforms. Offered alternate Spring semesters.
- ✓ **Physics 441.** Quantum Mechanics and Atomic Physics. 4 hrs.; 4 cr. *Prereq: Physics 241. Coreq: Physics 431 and Mathematics 311.*
Schrodinger wave mechanics applied to one-dimensional potential problems and to hydrogenic atoms; Pauli spin functions; multielectron atoms and the central field approximation; the hydrogen molecule. Offered alternate Spring semesters.
- ✓ **Physics 455.** Medical Physics Theory and Practice. 3 hrs.; 3 cr. *Prereq: Senior status in physics and permission of instructor.*

The physical aspects of ionizing radiation as applied in radiology and in medical uses of isotopes. X-rays; physical principles of diagnostic radiology; physical basis of treatment planning; radiation detection, measurement and dosimetry; energy absorption in biological material. *Offered Spring semesters.*

Physics 456. Clinical Internship in Medical Physics. One full day per week; 3 cr. *Coreq: Physics 455.*

In-depth, supervised training by the Medical Physics group of an affiliated medical center. Practical training in radiation safety and X-ray diagnosis, nuclear medicine, radiation physics laboratory, and clinical radiation dosimetry. *Offered Spring semesters.*

✓ **Physics 461.** Introduction to Solid State Physics. 3 hrs.; 3 cr. *Prereq: Physics 241 (or 351) and Mathematics 222.*

Basic structural, electrical, and magnetic properties of solids; mathematical description of crystal geometries, the Reciprocal lattice, and the Brillouin zone; specific heats of crystals; free-electron distribution function in metals; electrical properties of semiconductors and transistors. *Offered alternate Fall semesters.*

✓ **Physics 491.** Astrophysics I: Planetary Astronomy 3 cr: 3 hrs lecture *Coreq: Physics 351*

Basic physics of plasmas; orbital motions; the internal structure, atmospheres, magnetism and formation of the planets; dynamics of moons and rings; solar activity.

✓ **Physics 492.** Astrophysics II: Stellar Astronomy. 3 hrs. lecture; 3 cr. *Coreq: Physics 351*

Basic physics of radiation; spectral analysis; distances, motions, and physical properties of stars; stellar interiors and atmospheres; stellar evolution; clusters of stars; the interstellar medium; content, structure, and rotation of the Milky Way galaxy.

✓ **Physics 493.** Astrophysics III: Extragalactic Astronomy. 3 hrs. lecture; 3 cr. *Prereq: Physics 351*

Galaxies and galaxy clusters; the extragalactic distance scale and Hubble's Law; quasars and active galactic nuclei; general relativity; distances and luminosities in cosmology. Origin and fate of the universe: the Big Bang, cosmic background radiation, inflation, dark matter, the cosmological constant.

✓ **Physics 495-496.** Independent Study. Hours arranged; Minimum 6 hrs./wk.; 3 cr. each. *Prereq: Permission of instructor prior to registration. Not open to students with a combined total of 12 credits in Independent Study in the Natural Sciences Department. PASS/FAIL after 6 credits of Independent Study in Natural Sciences have been completed. A student may register for only one independent study course in the Natural Sciences Department per semester, intersession or summer session.*

Specific subject matter will reflect the interest of the student and the judgment of the physics faculty. A formal report on topic is required.

Political Science

✓ **Political Science 101.** Introduction to Politics. 3 hrs.; 3 cr. *Prereq: None.*

Survey of the basic concepts of politics through the study of contemporary issues and problems.

✓ **Political Science 103.** Politics and Government in the United States. 3 hrs.; 3 cr. *Prereq: None.*

Analysis of American politics and public policy in economic, social, and ideological contexts, emphasizing the Presidency, Congress, the judiciary, the federal bureaucracy, political parties, and interest groups.

✓ **Political Science 111-112.** Introductory Topics in Political Science. 3 hrs.; 3 cr. each. *Prereq: None.*

Analyzes selected, contemporary political issues of broad local, national, or international significance from both theoretical and practical perspective. Topics will vary and be announced during the previous semester.

✓ **Political Science 202.** Comparative Politics. 3 hrs.; 3 cr. *Prereq: English 125.*

Introduction to theories and techniques of comparative analysis; comparative study of political processes and performance in selected industrial and developing countries.

✓ **Political Science 211-212.** Intermediate Topics in Political Science. 3 hrs.; 3 cr.; *Prereq: Three credits in Political Science.*

Analysis of selected contemporary issues of broad local, national and international significance.

✓ **Political Science 214.** Racial and Ethnic Politics. 3 hrs.; 3 cr. *Prereq: English 125, Political Science 103 or permission of instructor.*

A comparative analysis of the politics of racial and ethnic groups in American society; problems of assimilation and alienation.

✓ **Political Science 226.** The U.S. Supreme Court. 3 hrs.; 3 cr. *Prereq: English 125, Political Science 103 or permission of instructor.*

Structure and function of the federal judicial system, judicial behavior and administration; the relation of current trends and conflicts in the Supreme Court to the clash of fundamental ideas and values in American society.

✓ **Political Science 228.** Public Administration in the Political Setting. 3 hrs.; 3 cr. *Prereq: English 125, Political Science 103 or permission of instructor.*

Analysis of the structure and functions of local, state, and federal administrative agencies and their relationship to the broader political environment; the conflict between bureaucratic efficiency and democratic values. *Offered Fall semesters.*

✓ **Political Science 230.** Correctional Administration. 2 hrs. lecture; 2 hrs. field work; 3 cr. *Prereq: Political Science 228 or permission of instructor.*

Survey and analysis of governmental correction institutions,

halfway houses, probation and parole, including a study of problems in correctional administration, an overview of modern developments in correctional management and an analysis of the political impact on various correctional programs. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Political Science 231.** The Electoral Process. 3 hrs.; 3 cr. *Prereq: English 125, Political Science 103, or permission of instructor.*

Analysis of the structure and function of political parties: organization and leadership, campaigns, public opinion, and electoral behavior. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Political Science 241.** Basic Factors in International Politics. 3 hrs.; 3 cr. *Prereq: English 125.*

Survey of the international system; an assessment of main forces involved in conflict and resolution; major components in international bargaining. *Offered at least once a year.*

- ✓ **Political Science 250.** Latin American Politics. 3 hrs.; 3 cr. *Prereq: Political Science 202.*

Survey of political trends, governmental leadership, political parties and interest groups in the major Latin American nations; emphasis on political change, revolution, and the interaction of social and political forces since the advent of Fidel Castro.

- ✓ **Political Science 251.** Puerto Rican Politics. 3 hrs.; 3 cr. *Prereq: Political Science 202.*

The process of political modernization with focus on mass participation, elite interaction, and urban-rural relationships; analyses of Puerto Rican political parties and interest groups, such as the Catholic Church, students, workers, the industrial elite, and United States foreign interests. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Political Science 252.** Cuban Politics. 3 hrs.; 3 cr. *Prereq: Political Science 202.*

The process and phases of the Cuban Revolution and its aftermath; the construction of Socialism, analysis of leadership, ideology, labor, race, women; inter-American, Cuban-Sino-Russian relations; Cuba and Third World. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Political Science 256.** African Politics. 3 hrs.; 3 cr. *Prereq: Political Science 202.*

African nationalism, the search for unity, and the internal developments of new nations; parties, the military, the bureaucracy, and the implications of the colonial experience. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Political Science 257.** Asian Politics. 3 hrs.; 3 cr. *Prereq: Political Science 202.*

Political development in selected Asian nations; emphasis on the independence movements, nationalism, political parties, and pressure groups. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Political Science 258.** Middle East Politics. 3 hrs.; 3 cr. *Prereq: Political Science 202.*

Politics of social change in the Middle East; basic trends in political, social, and international relationships; major social groups including the peasantry, urban workers, labor unions, political parties, and the "new middle class" in the context of a transforming society, the Arab-Israeli conflict as it relates to external and internal developments in the area. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Political Science 259.** Modern Israel. 3 hrs.; 3 cr. *Prereq: Political Science 202*

Israeli society from pre-statehood to the present; emphasis on group politics, ideology, government, and foreign policy. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Political Science 267.** Classical Political Theory I: Plato to Machiavelli. 3 hrs.; 3 cr. *Prereq: Political Science 101.*

The study of Greek, Roman, and Medieval political thought and their relationship to the societies from which they emerged.

- ✓ **Political Science 268.** Political Theory II: Machiavelli to Marx. 3 hrs.; 3 cr. *Prereq: Political Science 101.*

The study of Western political thought from the 16th through the 19th centuries and its relationship to the capitalist societies from which it emerged.

- ✓ **Political Science 269.** American Political Thought. 3 hrs.; 3 cr. *Prereq: Political Science 101 or 103.*

American political thought from colonial times through the contemporary period: its European-Liberal origins; its emergence as an independent and indigenous tradition; analysis of "mainstream" as well as dissident political ideas. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Political Science 271.** The Politics of Education. 3 hrs.; 3 cr. *Prereq: Political Science 101 or permission of instructor; no prereq. for Education students.*

Educational decision-making in the political realm; the effect of community power structures, metropolitan organization, and state government on education policies. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Political Science 273.** Politics of Aging. 3 hrs.; 3 cr. *Prereq: None.*

American public policy responses to increasingly urgent needs of older populations are examined and compared with results in other developed nations; special attention is given to practical problems faced by public administrators, policy makers, and the aged themselves, in achieving more satisfactory outcomes. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Political Science 275.** Introduction to Law. 4 hrs.; 4 cr. *Prereq: English 125, Junior status or permission of instructor.*
Introduction to the legal system, and to the internal operation and procedures of the civil and criminal courts; role of the paralegal; familiarity with basic legal terminology.
- ✓ **Political Science 285.** Urban Government in the United States. 3 hrs.; 3 cr. *Prereq: English 125.*
Analysis of the structure and decision-making patterns of urban political institutions and their relationship to changes in population, ethnicity, class and city-state-federal relationships.
- ✓ **Political Science 305-306.** Selected Legal Topics. 3 hrs.; 3 cr. *Prereq: English 125 and three credits in Political Science.*
In-depth analysis of a single legal specialty in regard to substantive law and issues.
- ✓ **Political Science 310.** Methods of Legal Research. 2 hrs.; 2 cr. *Prereq: Political Science 275, Junior status or permission of instructor.*
Introduction to methodology and practice in legal research; familiarity with primary and secondary sources of the law, judicial reports, case finding tools, citators, legal periodicals and other research aids. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Political Science 311-312.** Advanced Topics in Political Science. 3 hr.; 3 cr.; *Prereq: English 125 and twelve credits in Political Science.*
Analysis of selected contemporary issues of broad local, national and international significance.
- ✓ **Political Science 322.** The Courts and Public Policy. 3 hrs.; 3 cr. *Prereq: Political Science 101, and 103 or permission of instructor.*
Political analysis of the relations between the judicial system and welfare groups, consumer protection groups, anti-pollution groups, labor unions and other interested groups. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Political Science 327.** Congress and the Presidency. 3 hrs.; 3 cr. *Prereq: Political Science 101, and 103 or permission of instructor.*
Structure and functions of Congress and the Presidency in the formulation and execution of public policy; internal organization of Congress and the Presidency; bases of power, sources of conflict, patterns of decision-making. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Political Science 329.** Public Administration: Management Processes. 3 hrs.; 3 cr. *Prereq: Political Science 228.*
Analysis of administrative leadership in municipal, state, and federal government; evaluation of current tools for agency control, e.g., incentive plans, decentralization exchange theory, comprehensive productivity programming and co-optation.
- ✓ **Political Science 330.** Public Policy Making. 3 hrs.; 3 cr. *Prereq: Political Science 101, and 103 or permission of instructor.*
Analysis of public policy formation: role of political demands, bureaucracy, decision patterns, leadership and power; focuses upon processes of program authorization, budget making, planning and evaluation. Study of selected policy areas. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Political Science 332.** Public Opinion and Political Behavior. 3 hrs.; 3 cr. *Prereq: Political Science 101, and 103 or permission of instructor.*
Public opinion and political participation; political socialization, attitude formation and change, political ideology, and voting behavior; role of the mass media. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Political Science 340.** American Capitalism: Political and Social Aspects. 3 hrs.; 3 cr. *Prereq: Political Science 101 and 103.*
Capitalism beyond its economic consequences; the impact of monopoly capital on the contemporary American political process and social life; the relationship of capitalism to major domestic and foreign issues. *Offered at least once a year.*
- ✓ **Political Science 346.** American Foreign Policy. 3 hrs.; 3 cr. *Prereq: Political Science 101 and 103 or permission of instructor.*
American strategy in world politics; formulation, implementation, and effects of United States decision-making in the international arena. *Offered alternate Fall semesters.*
- ✓ **Political Science 352.** Russian Politics. 3 hrs.; 3 cr. *Prereq: English 125 and Political Science 202.*
Russian politics, culture, institutions and foreign policy; major focus on the changing role and composition of socio-economic and political forces in the contemporary Russian State. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Political Science 364.** Protest Politics and the Novel. 3 hrs.; 3 cr. *Prereq: Political Science 101 or permission of instructor.*
The persistent struggle for freedom and justice under unresponsive governments as seen in the works of Stendhal, Camus, and Sartre; Dostoevsky and Solzhenitsyn; Brecht and Grass; Snow and Golding; Mailer and Miller; M. Fuentes and Cortazar. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Political Science 366.** Marxism. 3 hrs.; 3 cr. *Prereq: Political Science 101 or permission of instructor.*
Development of the political thought of Karl Marx from the 19th century through Leninism, "Revisionism" to the theories of modern Communism and Democratic Socialism. *Offered alternate Spring semesters.*
- ✓ **Political Science 367.** Contemporary Political Theory. 3 hrs.; 3 cr. *Prereq: Political Science 101 or permission of instructor.*
Theories of social class, values and societal change; study of contemporary ideological approaches to the study of politics; assumptions and perspectives of systematic schools of political science. *Offered at least once a year.*

- ✓ **Political Science 373.** Politics of the Environment. 3 hrs.; 3 cr. *Prereq: English 125 and Political Science 103.*

Emergence of the environment as a salient political issue in American politics; federal environmental policies/state implementation; the national/global debate over environmental regulations. *Not offered on a regular basis. Availability to be determined by the department.*

- Political Science 375.** Seminar-Internship in a Legal Office. 1 hr. lecture; 6 hrs. field work; 4 cr. *Prereq: Political Science 275, 310 and permission of instructor.*

A bi-weekly seminar on legal issues and a ten hour per week internship in legal office designed for students who have completed the Paralegal courses. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Political Science 385.** New York City Government and Politics. 3 hrs.; 3 cr. *Prereq: Political Science 285.*

Origins and operations of current governmental structures and political forces in New York City; governmental responses to changing ethnic and economic demands including reform proposals such as decentralization and regional government.

- ✓ **Political Science 386.** Comparative Urban Government and Politics. 3 hrs.; 3 cr. *Prereq: Political Science 202, 285.*

Urban governmental institutions and reforms in selected industrial and developing areas and the relationship to changing environmental situations. *Offered at least once a year. Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Political Science 387.** Political Processes in the American States. 3 hrs.; 3 cr. *Prereq: Political Science 101, and 103 or permission of instructor.*

Selected problems in the structure, function, and administrative process of American state governments; attention will be given to comparative public policies; special emphasis on New York State government and politics. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Political Science 393-394.** Seminar-Internship in New York City Government and Community Development. 2 hrs. lecture; 8-10 hrs. field placement 4 cr. each. *Prereq: 9 credits in the Behavioral Sciences; minimum 2.75 G.P.A., and permission of instructor.*

Study of organizational dynamics and related NYC political issues coupled with structured field work in a public agency, office of an elected official, or community-based organization. For students interested in city governance/community service.

- ✓ **Political Science 395.** Seminar-Internship in Preventative Law for the Elderly 2 hrs. lecture; 10 hrs. field placement; 4 cr. *Prereq: 15 credits in the Behavioral Sciences; minimum 2.75 G.P.A., and permission of instructor.*

Study of theoretical and practical aspects of elder law and case development coupled with structured field work in an agency or senior citizen center. For students interested in law school, social work, or community service.

- Political Science 396.** Full-Time Internship in State Governance. 4 hrs. lecture; 33 hrs. field placement; 15 cr. *Prereq: Junior status, 18 credits in the Behavioral Sciences (at least 9 credits above the 100 level), 2.90 minimum G.P.A., permission of instructor and admission by the appropriate Internship Selection Committee.*

Structured field work under CUNY auspices in Albany allows mature students to experience first hand and participate in law making, administrative, or public interest advocacy processes. Special placements in legislative, public agency, or non-profit organization settings are made and supervised by an on-site CUNY director. To reinforce and integrate field experiences, interns attend special courses, issue study forums, and mock legislative or policy making sessions given by resident social scientists. All interns prepare a substantial research report under the direction of a designated York College Political Science Department mentor. Openings in each program are limited and filled on a competitive basis. Students chosen to participate reside in Albany during the internship and receive cost-of-living stipends. Certified for 7 Liberal Arts Credits. *Usually offered Spring semester.*

- Political Science 397.** Full-Time Internship in National Governance. 4 hrs. lecture; 33 hrs. field placement; 6 cr. *Prereq: Junior status; 18 credits in Behavioral Sciences (at least 9 credits above the 100 level), 2.90 minimum G.P.A., permission of instructor, and admission by the appropriate Internship Selection Committee.*

Structured field work under CUNY auspices in Washington D.C. during the summer session allows mature students to experience first hand and participate in law making, administrative, or public interest advocacy processes. Carefully developed placement in legislative, public agency, or non-profit organization settings are made and supervised by an on-site CUNY director. To reinforce and integrate field experiences, interns attend special courses, issue study forums, and mock legislative or policy making sessions given by resident social scientists. All interns prepare a substantial research report under the direction of a designated York College Political Science Department mentor. Openings in each program are limited and filled on a competitive basis. Students chosen to participate reside in Washington D.C. for seven weeks and receive cost-of-living stipends. Certified for 3 Liberal Arts Credits. *Usually offered Summer semester.*

- ✓ **Political Science 425.** Seminar in Civil Liberties. Hours arranged; 3 cr. *Prereq: 12 credits in Political Science or permission of instructor.*

The major areas of concern with civil liberties: political conspiracy, national security, and individual rights; free speech and association; freedom of religion and association; criminal procedure and defendant rights. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Political Science 444.** Seminar in Comparative Foreign Policies. Hours arranged; 3 cr. *Prereq: Political Science 202 and 12 credits in Political Science or permission of instructor.*

Scope, method, and theory of foreign policy-making; the foreign policies of major actors and blocs of actors in the international political system. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Political Science 453.** Seminar in Global Change. Hours arranged; 3 cr. *Prereq: English 125 and 12 credits in Political Science inclusive of Political Science 202.*

Global capital development and its ramifications; the multinational corporation and the national state; the processes mobilization and democratization. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Political Science 480.** Seminar in Contemporary Urban Problems. Hours arranged; 3 cr. *Prereq: 12 credits in Political Science or permission of instructor.*

Intra- and cross-national analysis of selected urban phenomena; the nature and distribution of political demands; leadership and decision-making structure; areas of conflict and Problems. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Political Science 490-493.** Directed Reading and Research. Hours arranged; 3 cr. each *Prereq: 12 credits in Political Science and permission of instructor.*

The student and his or her faculty director will develop a mutually acceptable program of intensive readings in an area of special interest to the student.

Psychology

- ✓ **Psychology 102.** Introductory Psychology. 3 hrs. ; 3 cr. *Prereq: None.*

Basic concepts and methods of contemporary psychology emphasizing the biological basis of behavior, learning, cognition, consciousness, development, stress and personality, abnormal behavior, group behavior, and social interaction. One or more field trips may be required.

- ✓ **Psychology 110.** The Psychology of Personal Awareness and Effectiveness. 3 hrs.; 3 cr. *Prereq: None. Not credited toward fulfillment of Psychology major requirements or General Education Requirements*

Readings and exercises from psychology and psychiatry that deal with increasing self-knowledge and awareness, managing one's emotions and motives, relaxation techniques, the role of exercise and recreation, and enhancing our relationships with others. The methods used, including the language spoken, may be at times unconventional and in some cases unsettling

- ✓ **Psychology 200.** Intermediate Seminar. 1 hr. lecture, 2 hrs. recitation; 3 cr. *Prereq: Psychology 102.*

Selected topics in Psychology. Specific areas will be chosen and will reflect student interest.

- ✓ **Psychology 215.** Human Development I: Infancy/Childhood. 3 hrs.; 3 cr. *Prereq: Psychology 102.*

Analysis and integration of theoretical conceptions and the empirical evidence for human development from pre-natal life through late childhood, examination of neurophysiological, cognitive, emotional, motivational and behavioral systems. The application of basic concepts to problems of school and clinic.

- ✓ **Psychology 216.** Human Development II: Adolescence/Maturity. 3 hrs.; 3 cr. *Prereq: Psychology 215.*

A study of the life cycle from adolescence through maturity. Special attention to the problems of adolescence and early adulthood and the changing psychological needs of the mature adult. Love, marriage, careers, sex roles and stereotypes, partnership and parenthood. The application of basic concepts to problems of school and clinic.

- ✓ **Psychology 217.** Psychology for Parents. 3 hrs. ; 3 cr. *Prereq: Psychology 102.*

Techniques and strategies that parents can use to more effectively deal with, and improve on, their interactions with their children. Particular emphasis will be given to age appropriate expectations, parenting styles, generational changes and family characteristics, cultural and gender differences, childhood development and learning, and day care.

- ✓ **Psychology 225.** Psychology of Learning Disabilities. 3 hrs.; 3 cr. *Prereq: Psychology 102.*

Scope and origins of learning disorders; current views, theories, and research concerned with the etiology and remediation of specific learning disorders. Field trips may be required.

- ✓ **Psychology 236.** The Psychology of Women. 3 hrs.; 3 cr. *Prereq: Psychology 102.*

The empirical and theoretical formulations regarding the psychology of the human female, including sexuality, pregnancy, psychological functioning, achievement, life styles and the development of gender differences. Offered alternate Spring semesters.

- ✓ **Psychology 250.** Practicum in Interviewing. 2 hrs. lecture, 1 hr. recitation, 2 hrs. lab.; 4 cr. *Prereq: Psychology 102 and permission of department*

The principles, dynamics, and practice of interviewing; how to interview, the do's and don'ts of interviewing, the appraisal interview, the personnel interview, the structured interview, the open-ended interview, group interviews, the intake and counseling interview in psychology and social work, the exit interview, the interview in social science research. Practice interviewing during the laboratory component.

- ✓ **Psychology 251.** Management and Organizational Behavior. 3 hrs.; 3 cr. *Prereq: Psychology 102.*

The effects of managerial practices on individual fulfillment and organizational effectiveness, systems, contingency, and dynamic models.

- ✓ **Psychology 252.** Leadership, Motivation and Power. 3 hrs.; 3 cr. *Prereq: Psychology 102.*

Theories of leadership; effect of leadership on individual and group motivation; special emphasis on the realities of power in management. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Psychology 253** Managerial and Personnel Psychology. *Prereq: Psychology 102*

Selection, placement, and training of personnel; research, theory, and practice involved in the study and measurement of attitudes, morale, and performance. Offered Fall semesters.

- ✓ **Psychology 254** Conflict Resolution and Management. 3 hrs.; 3 cr. *Prereq: Psychology 102*

Analysis of emerging conflicts within organizations; attitudes towards such conflicts; exploration of varied approaches to conflict and resolution. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Psychology 255** Psychology of Advertising and Marketing Communications. 3 hrs.; 3 cr. *Prereq: Psychology 102*

Psychological analysis of messages communication through various media; the interplay between theories of motivation and the satisfaction and manipulation of human needs and desires. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Psychology 265** Introduction to Communication Disorders. 3hrs.; 3 cr. *Prereq: Psychology 102.*

A survey of the diagnosis and treatment of speech, language and hearing disorders resulting from physical and sensory impairments in children and adults.

- ✓ **Psychology 280**. Psychology of Geriatrics. 3 hrs. ; 3 cr. *Prereq: Psychology 102.*

Survey of views and research concerned with psychological issues of late adulthood: physiological changes, memory, intelligence and creativity, personality and mental health, and coping strategies in later life. Field trips to selected institutions concerned with geriatric care may be required.

- ✓ **Psychology 282**. Psychology of Vocational Rehabilitation. 3 hrs.; 3 cr. *Prereq: Psychology 102.*

Basic concepts in the philosophy, historical development, principles, and practices of vocational rehabilitation. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Psychology 283**. The Psychology of Death and Dying. 3 hrs.; 3 cr. *Prereq: Psychology 102.*

The psychology of death and dying; formation and development of concepts, attitudes and values about death; rational and irrational emotions associated with death; cross-cultural approaches to death and dying; suicide and euthanasia; grief and bereavement. Offered Spring semesters.

- ✓ **Psychology 289**. Psychology of Addiction. 3 hrs.; 3 cr. *Prereq: Psychology 102.*

An overview of the theory, etiology, and treatment of various addictive disorders. Attention will be given to substance abuse, alcoholism, smoking, gambling, eating disorders, and compulsive anxiety and psychosexual disorders.

- Psychology 290-295**. Field Work. Hours arranged; 1 cr. each. *Prereq: Psychology 102 and permission of the Field Work Supervisor*

Supervised experience in the field under the guidance of faculty advisor in Psychology. Psychology 290 to 295 may be taken concurrently.

- ✓ **Psychology 300**. Interpersonal Skills for Community Service. 1 hr. lecture, 2 hrs. lab.; 2 cr. *Prereq: 6 credits in Psychology; English 125; Coreq: Psychology 301.*

An introduction to the psychosocial and interpersonal principles and practices necessary to work effectively in a variety of community service agencies and educational settings. Emphasis will be placed on exploring attitudes towards people who are different from ourselves, as well as the role of gender, race, ethnicity, Culture and Class.

- Psychology 301**. Practicum in Community Service. 4 hrs. Field Work; 2 cr. *Prereq: English 125; Coreq: Psychology 301; 6 credits in Psychology; Coreq: Psychology 300.*

Application of acquired skills in interpersonal and psychosocial communication in an applied setting under the supervision of a faculty advisor in Psychology.

- Psychology 302-303**. Practicum in Community Service. 4 hrs. Field Work; 2 cr. *Prereq: Psychology 301.*

Application of acquired skills in interpersonal and psychosocial communication in an applied setting under the supervision of a faculty advisor in Psychology.

- ✓ **Psychology 311**. Psychology of the Religious Experience. 3 hrs.; 3 cr. *Prereq: 6 credits in Psychology; English 125.*

A comprehensive overview of the psychological dimensions of religiosity and religious experience. Connections between psychology and related disciplines and the tenets of selected religions will be discussed from the expanded psychological perspective.

- ✓ **Psychology 313**. Psychology of Sensation and Perception. 2 hrs. lecture, 2 hrs. lab.; 3 cr. *Prereq: 6 credits in Psychology; English 125.* Not open to students with credit in 212 or 213.

Consideration of basic sensory and perceptual processes. Extensive experience with computerized and hands-on laboratory experiments. Students will conduct individual research projects. Field trips may be required.

- ✓ **Psychology 319**. Human Cognition Laboratory. 2 hrs. lecture, 2 hrs. lab.; 3 cr. Human Cognition Laboratory. *Prereq: 6 credits in Psychology; English 125.*

In-depth examination of human problem solving, concept formation, creativity, intelligence, perception, attention, memory and mnemonics, language, knowledge representation, and artificial intelligence.

- ✓ **Psychology 321** Psychology of Learning Laboratory. 2 hrs lecture; 2 hrs. lab.; 3cr. *Prereq: 6 credits in Psychology, English 125.* Not open to students with credit in Psychology 221.

In-depth consideration of basic learning processes; Pavlovian con-

ditioning, operant conditioning, the nature of reinforcement, discrimination, generalization, memory processes, motivation and human learning including verbal learning; related to current theory and application. Students will conduct weekly supervised laboratory exercises.

- ✓ **Psychology 326.** Statistical Methods in Psychology. 4hrs.; 4cr. *Prereq: 6 credits in Psychology; English 125; Math 111 or 121 or 150.* Not open to students with credit in 205 or 206. Descriptive and inferential statistics in psychological research.

- ✓ **Psychology 327.** Advanced Statistical Methods. 2hrs. lecture, 2 hrs. lab.; 3 cr. *Prereq: Psychology 326.*

An advanced consideration of the application of statistics and probability to behavioral data; linear regression analyses, one-way and two-way anova; factorial designs; selected advanced topics.

- ✓ **Psychology 330** Foundations of Research in Psychology. 3hrs.; 3cr. *Prereq: 6 credits in Psychology; Coreq./Prereq: Writing 301, 302 or 303*—this is a writing intensive course.

An introduction to the theoretical and methodological foundations of research in psychology. As part of this inquiry, students will explore the professional literature of the discipline by learning to access, read, summarize, and interpret published research. Through course projects students will gain familiarity with APA style, library resources as well as on-line resources such as PsychInfo and InfoTrac.

- ✓ **Psychology 332.** Social Psychology. 3 hrs.; 3 cr. *Prereq: 6 credits in Psychology; English 125.*

Selected topics in person perception, socialization, the development of attitudes and values, leadership, group structure and processes, language and communication, intergroup relations, social change, and mass behavior. Field trips may be required.

- ✓ **Psychology 333.** Black Psychology. 3 hrs.; 3 cr. *Prereq: 6 credits in Psychology; English 125.*

Provides a critical review of accumulated psychological research concerning the description, explanation and interpretation of the behavior of Black Americans. The impact of various social, psychological, cultural, economic and political variables will be related to Black family organization, personality, language and intellectual development, physical and mental health, educational and occupational aspirations and achievements, and political behavior.

- ✓ **Psychology 334.** Personality. 3 hrs.; 3 cr. *Prereq: 6 credits in Psychology; English 125.*

Conceptual and methodological problems in the study of human personality. Consideration of the major contributions of biological, psychodynamic, trait, cognitive, humanistic, and behavioral approaches. Methods of study and evaluation of personality; critical review of contemporary research.

- ✓ **Psychology 335.** Exceptional Child. 2 hrs. lecture, 4 hrs. field work; 4 cr. *Prereq: Psychology 215; English 125*

Children requiring special consideration as a result of exceptional characteristics; high I.Q., special talents, mentally retarded, brain

damaged, aphasic, emotionally disturbed, or culturally deprived. Weekly field visits to selected institutions are an integral part of the course. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Psychology 337.** Child Abuse and Neglect. 3 hrs. for 5 weeks; 1 cr. *Prereq: Psychology 215; English 125.*

Overview of child abuse/neglect. Topics include: historical review, definitions and classifications; problem identification and prevalence; laws; role of professionals/societal institutions; theories and dynamics; consequences; prevention and/or treatment. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Psychology 338.** Abnormal Psychology. 3 hrs.; 3 cr. *Prereq: 6 credits in Psychology; English 125.*

Selected topics in psychopathology stressing the experimental approach: models of psychopathology; anxiety, dissociative, mood, and personality disorders; substance abuse and sexual disorders; schizophrenia; disorders of childhood and adolescence; and methods of treatment.

- ✓ **Psychology 340.** Clinical Health Psychology. 3 hrs.; 3 cr. *Prereq: 6 credits in Psychology; English 125.*

The application of psychological knowledge and methods to the understanding, treatment, and prevention of mental and physical disorders. Topics include stress and the immune system, chronic illnesses, preventive care, and the development of coping skills.

- ✓ **Psychology 342.** Group Dynamics. 1 hr. lecture; 1 hr. recitation, 3 hrs. lab.; 4 cr. *Prereq: 6 credits in Psychology; English 125.*

Observation and analysis of the small group as a social system in a miniature society created by the students. Theoretical examination of group cohesiveness, conformity, norms and standards, power and influence processes, leadership, performance of group functions, and structural properties of groups. Field trips may be required. Offered Spring semesters.

- ✓ **Psychology 352.** Psychological Assessment. 3 hrs.; 3 cr. *Prereq: Psychology 326; English 125.*

Principles and methods of psychological assessment: test theory and construction, the measurement of intelligence and achievement, assessment of personality, neuropsychological evaluation, occupational tests, and review of current research in psychological assessment.

- ✓ **Psychology 353.** Approaches to Psychotherapy. 3 hrs.; 3 cr. *Prereq: 6 credits in Psychology; English 125.*

Cognitive, behavioral, humanistic, psychopharmacological, and psychodynamic approaches to human behavior change.

- ✓ **Psychology 362.** Physiological Psychology. 3 hrs.; 3 cr. *Prereq: 6 credits in Psychology; English 125.*

Selected topics in the biological bases of behavior: evolution and genetics, structure and function of the nervous system, and neural and endocrine processes that impact on cognition, emotion, learning, memory, motivation, and perception.

- ✓ **Psychology 370.** Psychology of Consciousness. 3 hrs.; 3 cr. *Prereq:* 6 credits in Psychology; English 125.

Recent theory, research, and techniques in the study of human and animal consciousness, physiological correlates, models of consciousness, altered states, traditional and esoteric approaches, and contemporary developments.

- ✓ **Psychology 381.** Psychological Consequences of Chronic Disability. 3 hrs. lecture, 1 hr. lab; 3 cr. *Prereq:* Psychology 102, English 125, Junior status.

Differing approaches to understanding, evaluating and treating the functional and psychological consequences of chronic disability. Behavior disorders, substance abuse, and neurological impairment are considered. Independent site visits to agencies serving individuals with disabilities are required, providing practical experience.

- ✓ **Psychology 383.** Behavior Modification. 3 hrs.; 3 cr. *Prereq:* 6 credits in Psychology; English 125

An introduction to behavior modification—theory, practice and research—including the applied analysis of human behavior techniques for behavioral intervention and change; topics include the examination of learning theory approaches to abnormal behavior, parenting, education, everyday social behavior (e.g. shyness, obesity, smoking, etc.), self-control, physical illness and social systems; special consideration of the ethics of behavior modification is included. One or more field trips may be required. *Not offered on a regular basis. Availability to be determined by the department.*

- Psychology 385.** Practicum in Behavior Modification. 6 hrs. supervised field work, 1 hr. recitation; 4 cr. *Prereq:* Psychology 383 Limited enrollment.

Application of acquired behavior modification techniques within an applied setting (e.g., hospital, clinic, school, etc.) under the direct supervision of the instructor. *Not offered on a regular basis. Availability to be determined by the department.*

- Psychology 387.** Biofeedback, 3 cr. *Prereq:* Psychology 6 credits in Psychology, English 125.

Theories, research and applications of biofeedback, the concept of self regulation; management of electromyographic (EMG), thermal, electrodermal (GSR, SPR) and electroencephalographic (EEG), responses and processes; implications of Biofeedback for clinical psychology, psychiatry, medicine, dentistry, rehabilitation, education and research; hands on experience with, and demonstration of, instrumentation and methods during laboratory component.

- ✓ **Psychology 401.** History of Psychology. 3 hrs. ; 3 cr. *Prereq:* 9 credits in Psychology; Writing 301 or 302 or 303.

Development of contemporary psychology as a science including such systemic approaches as structuralism, functionalism, behaviorism, Gestalt psychology, psychoanalysis, and cognitive and evolutionary psychology.

- ✓ **Psychology 430.** Experimental Methods. 2 hrs. lecture, 4 hrs. lab.; 4 cr. *Prereq:* Psychology 221, 326, and Senior status. Not

open to students with credit in Psychology 304, 305, and 306.

Application of the scientific method to experimental, correlational, observational, and survey design and the ethics of research. Students will conduct a literature review, formulate and design a research proposal, collect data and analyze results, and prepare a professional level research report in accordance with APA style.

- Psychology 454.** Seminar in Organizational Psychology. 3 hrs.; 3 cr. *Prereq:* 9 credits in Psychology; Writing 301 or 302 or 303.

The nature of organizations and organizational behavior; employer-employee relationships; personnel selection, training, motivation and measurement of job satisfaction; the individual and the organization; role of the psychologist in industry. Field trips may be required. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Psychology 480-482** Advanced Seminar in Psychology. 3 hrs.; 3 cr. *Prereq:* 9 credits in Psychology; Writing 301 or 302 or 303. Selected advanced topics in psychology.

- ✓ **Psychology 490-495.** Independent Study and Experimental Research. Hours arranged; 3 cr. each. *Prereq:* 9 credits in Psychology; Writing 301 or 302 or 303, and permission of a Psychology advisor.

Investigation of a psychology problem, determined by the student in consultation with a member of the Psychology faculty. Field trips may be required.

Puerto Rican Studies

- ✓ **Puerto Rican Studies 241.** Puerto Ricans in New York. 3 hrs.; 3 cr. *Prereq:* Completion of Behavioral Sciences Area Requirements.

The life styles of Puerto Ricans as responses to the social, political, and economic conditions of New York. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Puerto Rican Studies 242.** Puerto Rican Society and Culture I. 3 hrs.; 3 cr. *Prereq:* Completion of Behavioral Sciences Area Requirements.

The Indigenous and Spanish period; the culture, values, and social structure of Puerto Rico prior to the Spanish conquest and colonization; social change in Puerto Rico stemming from the impact of Spanish colonization on the pre-colonial social structure. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Puerto Rican Studies 243.** Puerto Rican Society and Culture II. 3 hrs.; 3 cr. *Prereq:* Completion of Behavioral Sciences Area Requirements.

The impact of the United States; the culture, values, and social structure of Puerto Rico as a response to the effects of American domination. *Not offered on a regular basis. Availability to be determined by the department.*

Russian

- ✓ **Russian 101.** Elementary Russian I. 4 hrs.; 4 cr. *Prereq: None. Offered when the demand exists.*
Basic principles of a beginner's course; designed to give the foundations of the language.
- ✓ **Russian 102.** Elementary Russian II. 4 hrs.; 4 cr. *Prereq: Russian 101. Offered when the demand exists.*
Continuation of the beginner's course; more complex grammatical structures, integrated readings and further practice in conversation.

Science Education

Science Education 570. Advanced Methods in High School Science Instruction. 2 hrs lecture; 5 hrs. lab.; 4 cr. *Prereq: Acceptance in Project Leadership.*

An intensive four week summer program for experienced high school science teachers. A combination of lectures, seminars, demonstrations and laboratory exercises designed to upgrade and revitalize knowledge in the specific area and in current teaching methods. The subject area of concentration will be in one of the following: biology; chemistry; earth science; or physics.

Science Education 571. Field Activities in Science Education. 6 hrs. field work; 2 cr. *Prereq: Science Education 570.*

A follow-up to Science Education 570 in which students will attend and participate in workshops at the college and their own schools. In addition, the students will present 75 periods of in-service training to their peers to disseminate and implement the new materials.

Science Education 572. Survey of Physical Science Topics for Elementary Teachers. 2 hrs. lecture; 2 hrs. lab.; 3 cr. *Prereq: Acceptance in Project STEPPS (Science Teacher Enhancement Program in Physical Science) or permission of instructor.*

An intensive two week summer program for teachers of grades 4-6 to improve knowledge and methods for teaching physical science. Topics will include electricity, magnetism, light, force, energy, motion and heat. This course will be offered on a Pass/Fail basis.

Science Education 573. Practicum in Physical Science for Elementary Teachers. 2 hrs. lecture; 2 hrs. lab.; 3 cr. *Prereq: Science Education 572.*

A continuation of Science Education 572. Participants will attend and actively participate in a series of nine, seven-hour workshops on Saturdays. Topics will include: geology, weather, astronomy, sound and chemistry. This course will be offered on Pass/Fail basis.

Social Work

Social Work 101. Introduction to Social Work. 3 hrs.; 3 cr. *Prereq: None.*

Social Work and its values viewed from historic and contemporary perspectives; emphasis on settings where social work is practiced; opportunity for career discovery and orientation.

Social Work 203. Social Welfare Programs and Policies. 3 hrs. ; 3 cr. *Prereq: Social Work 101, Political Science 103, Sociology 101. Prereq. or Coreq: English 125.*

Consideration of socio-economic conditions that have influenced the development of major contemporary social welfare institutions; emphasis on the interrelationships of social problems and policies, social welfare systems, and the values of contemporary society; introduction to social policy analysis.

Social Work 293. Social Work Practicum. 2 hrs. lecture ; 6 hrs. field work ; 3 cr. *Prereq: Social Work 101. Prereq. or Coreq: Psychology 215, Social Work 203, English 125.*

Direct service contact in professionally supervised settings, opportunity to gain practical knowledge about the structure and function of social services and bureaucratic organizations; integration of field and classroom learning in seminar format. Field placement is for six daytime hours per week.

Social Work 300. Generalist Social Work Practice I and Skills Laboratory. 2 hrs. lecture ; 2 hrs. lab; 3 cr. *Prereq: Social Work 203, Social Work 293. Prereq. or Coreq: Academic Computing 101, Anthropology 101, Psychology 216.*

Examination of the generalist model of social work practice with focus on intervention with individuals. Development of the professional, communication and interviewing skills in the laboratory.

Social Work 330. Social Welfare Problems and Issues. 3 hrs.; 3 cr. *Prereq: Junior status.*

A forum for the consideration of pressing contemporary social welfare issues affecting the quality of life in New York City such as child abuse, arson, homelessness, etc. *Not offered on a regular basis. Availability to be determined by the department.*

Social Work 350. Social Research I. 2 hrs. recitation; 2 hrs. lab; 3 cr. *Prereq. or Coreq: Social Work 300.*

Introduction to the logic of inquiry; the construction and interpretation of social indicators and demographic measures; the organization and analysis of quantitative data in social research, including the use of micro-computers for graphic and statistical analysis and presentation.

Social Work 360. Human Behavior and the Social Environment. 3 hrs. ; 3 cr. *Prereq: Admission into the Social Work Program, Social Work 300. Prereq: or Coreq: Two Group II courses and Social Work 350.*

Integration of social science knowledge with the generalist model of practice to support intervention. Emphasis on human diversity and oppression.

Social Work 370. Generalist Social Work Practice II. 3 hrs. ; 3 cr. *Prereq. or Coreq: Social Work 350, Social Work 360, Writing 303.*

Continued examination of the generalist model of social work practice with focus on intervention with families and small groups. Development of professional skills in referral, assessment, goal setting, contracting, termination and evaluation.

Social Work 400. Generalist Social Work Practice III. 3 hrs. ; 3 cr. *Prereq. or Coreq: Social Work 350, Social Work 360, Social Work 370.*

Continued examination of the generalist model of social work practice with focus on intervention with formal organizations and communities. Development of professional skills in direct action, advocacy, bargaining, conflict resolution and evaluation.

Social Work 410. Field Placement and Seminar I. 2 hrs. lecture; 14 hrs. field work; 6 cr. *Prereq: Acceptance into Field Placement, Social Work 360, Social Work 370. Prereq. or Coreq: Social Work 400.*

Supervised field experience. On site visits by Social Work faculty. Integration of field and classroom learning in a weekly on-campus seminar. Placements are from 9:00 a.m. to 5:00 p.m. on two weekdays per week for a minimum of 200 hours for the semester. Permission required for repeating the course.

Social Work 470. Social Research Methods II. 3 hrs. ; 3 cr. *Prereq: Social Work 350. Prereq. or Coreq: Social Work 400, Social Work 410.*

Application of the scientific method, the logic of experimentation, and rules of evidence to social data, with particular attention to experimental and quasi-experimental research designs, including single-case designs; measurement problems; and sampling designs and the use of inferential statistics.

Social Work 480. Social Welfare Policy. 3 hrs. ; 3 cr. *Prereq. or Coreq: Social Work 400, Social Work 410, Social Work 470.*

Social policy analysis; emphasis on the various conceptions of social policy and the elements that influence social welfare decision making; the relationship between social policy and social work practice; development of analytical techniques needed for problem evaluation and policy change.

Social Work 492. Field Placement and Seminar II. 2 hrs. lecture; 14 hrs. field work; 6 cr. *Prereq: Social Work 410; Prereq or Coreq: Social Work 470 & 480. In the Spring semester, this course begins the first week of January.*

Continuation of supervised field experience. On site visits by Social Work faculty. Integration of field and classroom learning in a weekly, on-campus seminar. Placements are from 9:00 a.m. to 5:00 p.m. on two weekdays per week for a minimum of 200 hours for the semester. Permission required for repeating the course.

Sociology

✓ **Sociology 101.** Introductory Sociology. 3 hrs.; 3 cr. *Prereq: Passing grade on Writing and Reading tests.*

Introduction to the basic premises of sociology; the role of social factors as a determinant of human behavior; the formation and function of social institutions; the logic of sociological inquiry.

✓ **Sociology 201.** Sociological Analysis. 3 hrs.; 3 cr. *Prereq: Sociology 101 or 9 credits in Behavioral Sciences.*

A review of basic sociological concepts and perspectives with an

emphasis on their uses in sociological research and theory. Primarily designed for sociology majors. *Offered Fall semesters.*

✓ **Sociology 202.** Major Ideas and Issues in Education. 3 hrs.; 3 cr. *Prereq: English 125*

An introduction to the major historical, philosophical, and sociological ideas in American Education, including the history of schooling in the United States. Historical threads from a variety of multicultural perspectives will be presented, and philosophical approaches from selected global thinkers will be discussed. The student will be encouraged to develop his/her own unique philosophy of education. Includes fieldwork. Required for all teacher education students.

✓ **Sociology 220.** Social Research I. 2 hrs. recitation; 2 hrs. lab.; 3 cr. *Prereq: Sociology 101.* Not open to students with credit in Economics 220, Psychology 205, 206, Social Work 220 or 350.

Introduction to the logic of inquiry; the construction and interpretation of social indicators and demographic measures; the organization and analysis of quantitative data in social research, including the use of micro-computers for graphic and statistical analysis and presentation.

✓ **Sociology 226.** Survey Research I: Planning and Design of Research. 2 hrs. lecture; 4 hrs. lab; 4 cr. *Prereq/Coreq: Sophomore status, Sociology 220.* Not open to students with credit in Sociology 326.

Formulation of research problem, development of hypotheses and research design, including sample design and selection. Word processing other computer skills. Concepts learned will be applied to student's own research project. Field work required.

✓ **Sociology 227.** Survey Research II: Data Collection, Processing and Analysis. 2 hrs. lecture; 4 hrs. lab.; 4 cr. *Prereq/Coreq sophomore status and Sociology 220 or Sociology 321.*

Continuation of project initiated in Sociology 226. Data collection and statistical analysis of data, use of statistical computer programs, report organization and write-up. Concepts learned will be applied to student's own research projects. Field work required. *Not offered on a regular basis. Availability to be determined by the department.*

✓ **Sociology 231.** Sociology of Small Groups. 4 hrs.; 3 cr. *Prereq: Sociology 101.*

Small group life, intergroup relations, group process, interaction of group members and leader; skill training in the use of sociometrics, role playing, process analysis and evaluation; emphasis on social climate, techniques of involvement, and productivity especially as applicable in the classroom. Not offered on a regular basis. Availability to be determined by the department.

✓ **Sociology 235.** Ethnicity. 3 hrs.; 3 cr. *Prereq: Sociology 101.*

Survey of the major ethnic groups in the United States; emphasis on the meaning of classifying individuals into ethnic groups, leading theories concerning the sources of prejudice and discrimination, and the changing place of various groups in the stratification structure.

- ✓ **Sociology 236.** Sociology of Aging. 3 hrs.; 3 cr. *Prereq: Sociology 101 or permission of instructor.*
A study of the trends in the roles and status relationships of the aged in the family structures and in the other institutional arrangements of Western Societies, including the economic, political, leisure, medical, etc.
- ✓ **Sociology 238.** Industrial Sociology. 3 hrs.; 3 cr. *Prereq: Sociology 101.*
Comparative view of industrial systems; focus on work roles, collective bargaining, and the relationships of industry to other social institutions and to stratification. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Sociology 239.** Sociology of Work. 3 hrs.; 3 cr. *Prereq: Sociology 101*
Occupational institutions, recruitment, training, and careers; relation between work and other social roles; changes in the composition of the labor force.
- ✓ **Sociology 243.** Sociology of Leisure. 3 hrs.; 3 cr. *Prereq: Sociology 101.* Not open to students with credit in Sociology 343.
An analysis of the origins and uses of time and of its relationship to other institutions. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Sociology 245.** Medical Sociology. 3 hrs.; 3 cr. *Prereq: Sociology 101 or permission of instructor.*
Normative aspects of health and illness, diagnosis, treatment and rehabilitation in the contexts of community and group organization. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Sociology 247.** Family and Kinship. 3 hrs.; 3 cr. *Prereq: Sociology 101.*
Kinship systems in various types of societies, with attention to marriage, the family, and related institutions in their various cultural contexts; the changing forms, functions, and values of the family in an urban-industrial setting. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Sociology 252.** Social Problems. 3 hrs.; 3 cr. *Prereq: Sociology 101 or other introductory courses in the Behavioral Sciences.*
Major and persistent social concerns; the contribution of sociological theory in tracing their sources, effects, and possible modes of control.
- ✓ **Sociology 255.** Deviance and Social Control. 3 hrs.; 3 cr. *Prereq: Sociology 101.* Not open to students with credit in Sociology 254, formerly Criminology.
Various forms of social deviance and the processes established for their control; particular emphasis on criminology.
- ✓ **Sociology 271.** Sociology of Education. 3 hrs.; 3 cr. *Prereq: Sociology 101;* no prereq. for Education students.
Social structure of the school; the community's impact on the school system; the teaching profession; effects of ethnic composition of the community and student population on the school; the school as a social and urban institution.
- ✓ **Sociology 289.** Urban Sociology. 3 hrs.; 3 cr. *Prereq: Sociology 101.*
The uniqueness of city life; the organization and structure of cities as it affects the lives of its citizens and the forms of its social institution; the "urban crisis" and relevant policy implications. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Sociology 290-292.** Field Work and Research. Hours arranged; Soc. 290 - 3 cr., Soc. 291 - 2 cr., Soc. 292 - 1 cr. *Prereq: 200 level Sociology course related to the area of the field study of research and permission of instructor.* Not more than 6 credits from the Field Work and Research series (290, 291, 292, 390, 391, 392) credited toward Sociology major requirements. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Sociology 312.** Sociological Theory. 3 hrs.; 3 cr. *Prereq: Sociology 101 and completion of Behavioral Sciences distribution requirements.*
Major sociological theories of the 19th and 20th centuries and their relation to philosophical thought of the 18th and 19th centuries with a focus on Marx, Durkheim, Weber, Cooley, Mead, and Parsons. *Offered Spring Semester.*
- ✓ **Sociology 314.** Social Structure and Personality. 3 hrs.; 3 cr. *Prereq: Sociology 101 and completion of Behavioral Sciences distribution requirements.*
Sociological examination of the individual in society; problems of relating sociological and psychological phenomena and processes through the works of Marx, Durkheim, Freud, Bernstein, and Marcuse. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Sociology 321.** Social Research Methods II. 3 hrs.; 3 cr. *Prereq: Junior status and 12 credits in Sociology, including Sociology 220.* Not open to students with credit in Social Work 321 or 470.
Application of the scientific method, the logic of experimentation, and rules of evidence to social data, with particular attention to experimental and quasi-experimental research designs, including single-case designs; measurement problems; and sampling designs and the use of inferential statistics.
- ✓ **Sociology 325.** Field Research Practicum. 6 hrs.; 4 cr. *Prereq: Junior status, 12 credits in Sociology, and permission of instructor.*
Practice in conduct of field research including the techniques of participant observation and interviewing, and interpretation of data collected by these means. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Sociology 333.** Social Stratification. 3 hrs.; 3 cr. *Prereq: Sociology 101 and completion of Behavioral Sciences distribution requirements.*
Social class and status in the United States; the causes and consequences of the distribution of power.

- ✓ **Sociology 334.** Complex Organizations. 3 hrs.; 3 cr. *Prereq: Sociology 101 and completion of Behavioral Sciences distribution requirements.*
Organizational theory, with focus on U.S. organizations; their social origins; the effects of organizations on their members; patterns of authority, work content and occupational structure in contemporary society. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Sociology 341.** Political Sociology. 3 hrs.; 3 cr. *Prereq: Sociology 101 and completion of Behavioral Sciences distribution requirements.*
Power and influence; the role of legitimation; the emergence, nature, and exercise of leadership; and political socialization. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Sociology 342.** Sociology of Higher Education. 3 hrs.; 3 cr. *Prereq: Sociology 101 and completion of Behavioral Sciences distribution requirements.*
Institutional and comparative analysis of higher education with particular emphasis on relationship between higher education and economic, political, cultural, and demographic structures and processes.
- ✓ **Sociology 344.** Sociology of Religion. 3 hrs.; 3 cr. *Prereq: Sociology 101 and completion of Behavioral Sciences distribution requirements.*
Religion as a social phenomenon present in all societies; focus on relations between religion and economic, political, and family institutions; the structure and evolution of different types of religious organizations; and theories of the origin and functions of religion. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Sociology 346-348.** Selected Topics in Social Institutions. 3 hrs.; 3 cr. each. *Prereq: Sociology 101 and completion of Behavioral Sciences distribution requirements.*
Social institutions of current concern not covered by other courses. Topics vary from semester to semester and announced prior to registration. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Sociology 354.** Criminal Justice Administration. 3 hrs.; 3 cr. *Prereq: Sociology 101 and 255, or permission of instructor.*
Law enforcement agencies, courts, prisons and rehabilitation agencies, their structure, personnel, and impact on communities and "clients," problems of reform and change. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Sociology 364.** Social Change. 3 hrs.; 3 cr. *Prereq: Sociology 101 and completion of Behavioral Sciences distribution requirements.*
Structural and cultural change in community and society; rate and degree of change, mechanisms of change, and planning of change; major theories of social change.
- ✓ **Sociology 365.** Collective Behavior. 3 hrs.; 3 cr. *Prereq: Sociology 101 and completion of Behavioral Sciences distribution requirements.*
Causes of major forms of collective behavior, e.g., riots, panics, social movements; the impact of collective behavior on society. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Sociology 366.** Sociology of Modernization and Development. 3 hrs.; 3 cr. *Prereq: Sociology 101 and completion of Behavioral Sciences distribution requirements.*
Sociological analysis of the destruction of tribal and the formation of national communities in the process of modernization and development with particular attention to Africa. Comparison with the small town and the city in Western societies.
- ✓ **Sociology 381.** Population Problems. 3 hrs.; 3 cr. *Prereq: Sociology 101 and completion of Behavioral Sciences distribution requirements.*
Major population trends; social and psychological factors associated with population changes; basic concepts, techniques, and data employed in population analysis. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Sociology 390-392.** Field Work and Research. Hours arranged; Soc. 390 – 3 cr., Soc. 391 – 2 cr., Soc. 392 – 1 cr. *Prereq: Junior status, 9 credits in Sociology including Sociology 101 and permission of instructor.* Not more than 6 credits from the Field Work and Research series (290, 291, 292, 390, 391, 392) credited toward Sociology major requirements.
Supervised experience in the field or independent research under the guidance of an instructor in Sociology.
Not offered on a regular basis. Availability to be determined by the department.
- ✓ **Sociology 401-403.** Seminar: Advanced Topics in Sociology. Hours arranged; 3 cr each. *Prereq: Senior status and 15 credits in Sociology or related Behavioral Sciences discipline, and permission of instructor.*
Advanced work in selected substantive areas in Sociology: social organization, social institutions, demography, urban sociology. Topics vary from semester to semester and are announced prior to registration. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Sociology 411.** Sociology of Knowledge. Hours arranged; 3 cr. *Prereq: Sociology 101, 312, 344.*
Relationship between social structures and scientific, legal, religious and aesthetic forms as developed in the works of Durkheim, Marx, Weber, and Mannheim. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Sociology 412.** Seminar: Contemporary Issues in Sociological Theory. Hours arranged; 3 cr. *Prereq: Senior status and Sociology 312.*
Twentieth-century sociological theory with reference to contempo-

rary issues as radical social theory and phenomenological sociology. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Sociology 490.** Independent Reading in Sociology. Hours arranged; 3 cr. *Prereq: Junior status and permission of instructor.* Supervised individual readings on sociological topics not covered by other courses. *Not offered on a regular basis. Availability to be determined by the department.*

Spanish

- ✓ **Spanish 101.** Elementary Spanish I. 4 hrs.; 4 cr. *Prereq: Placement by department.* Not open to students with credit in Spanish 113. Basic principles of a beginners' course; designed to give the foundation for understanding, speaking, reading and writing the language; study of simple syntax.
- ✓ **Spanish 102.** Elementary Spanish II. 4 hrs.; 4 cr. *Prereq: Spanish 101 or placement by department.* Not open to students with credit in Spanish 114. Continuation of the beginners' course; more complex grammatical structures; integrated reading and further practice in conversation.
- ✓ **Spanish 103.** Essential Spanish for the Bilingual Student. 3 hrs.; 3 cr. *Prereq: Placement by department.* Not open to students with credit in Spanish 101 or Spanish 102. The essentials of orthography, accentuation and syntax for students with oral proficiency in Spanish who have not studied syntax.
- ✓ **Spanish 104.** Rapid Review of Basic Spanish. 3 hrs.; 3 cr. *Prereq: Placement by department.* A refresher course of basic Spanish grammar and reading integrating the use of tapes and laboratory materials. Designed for students who wish to reinforce their basic knowledge of the language and for native speakers who have not studied Spanish syntax.
- ✓ **Spanish 105.** Intermediate Spanish I. 3 hrs.; 3 cr. *Prereq: Spanish 102 or Spanish 103 or 104 or placement by department.* Intensive oral-aural practice based on selected readings; functional review of grammar. Separate sections of this course are given for native and non-native speakers of Spanish in order to best serve the student's needs. Placement in the proper section is determined by the discipline.
- ✓ **Spanish 106.** Intermediate Spanish Composition. 3 hrs.; 3 cr. *Prereq: Spanish 105 or placement by department.* Development of writing proficiency on the intermediate level using revision and editing techniques, augmented by selected contemporary literary texts.
- ✓ **Spanish 107.** Intermediate Spanish for Special Purposes. 3 hrs.; 3 cr. *Prereq: Spanish 105.* A special topics course on the intermediate level designed to give students language instruction focused on a specific area such as Health Professions, Social Work or Business.

- ✓ **Spanish 180.** Intermediate Spanish in the Disciplines I. 1 hr.; 1 cr. *Prereq: Spanish 107 or placement by department.* Not open to students with Spanish credit above the 100 level.

A recitation class on the intermediate proficiency level dedicated to discussions of primary source readings in Spanish, chosen to complement a designated course in another discipline. Particular attention will be paid to vocabulary and speaking.

- ✓ **Spanish 181.** Intermediate Spanish in the Disciplines II. 1 hr.; 1 cr. *Prereq: Spanish 180.* Not open to students with Spanish credit above the 100 level.

A recitation class on the intermediate proficiency level dedicated to discussions of primary source readings in Spanish, chosen to complement a designated course in another discipline. Particular attention will be paid to vocabulary and speaking.

- ✓ **Spanish 182.** Intermediate Spanish in the Disciplines III. 1 hr.; 1 cr. *Prereq: Spanish 181.* Not open to students with Spanish credit above the 100 level.

A recitation class on the intermediate proficiency level dedicated to discussions of primary source readings in Spanish, chosen to complement a designated course in another discipline. Particular attention will be paid to vocabulary and speaking.

NOTE: Courses numbered 200 and above are normally conducted entirely in Spanish, except when otherwise indicated.

- ✓ **Spanish 200.** Introduction to Literary Theory and Analysis. 3 hrs.; 3 cr. *Prereq: Placement by department.*

Introduction through close readings of selected texts to a variety of reading approaches and critical methodologies central to the study of literature.

- ✓ **Spanish 201.** Hispanic-American Literature from its Origin through Modernismo. 3 hrs.; 3 cr. *Prereq: Spanish 200.*

Representative authors of Hispanic-American countries up to the 20th century

- ✓ **Spanish 202.** Hispanic-American Literature after Modernismo. 3 hrs.; 3 cr. *Prereq: Spanish 200.*

Hispanic-American authors after Modernismo.

- ✓ **Spanish 203.** Hispanic-American Short Story. 3 hrs.; 3 cr. *Prereq: Spanish 200.*

Critical analysis of the modern short story in Hispanic America.

- ✓ **Spanish 208.** Advanced Grammar. 3 hrs.; 3 cr. *Prereq: Spanish 200.*

A systematic review of grammar and a study of syntactical peculiarities of modern Spanish.

- ✓ **Spanish 209.** Composition and Style. 3 hrs.; 3 cr. *Prereq: Spanish 200.*

Composition based on the stylistic analysis of readings of representative modern authors.

- ✓ **Spanish 210.** Spanish Linguistics. 3 hrs.; 3 cr. *Prereq: Spanish 200.*

This course will provide students with an overview of the major

branches of Spanish linguistics and phonetics. The course will include morphology, phonology, semantics, historical linguistics and geographic variants. Course will be conducted in Spanish.

- ✓ **Spanish 221.** Spanish Literature to 1700. 3 hrs.; 3 cr. *Prereq: Spanish 200.*

Survey of major works of Peninsular Spanish Literature from the Middle Ages to 1700. Includes jarchas, troubador poetry, early theatre, golden age poetry, prose and drama.

- ✓ **Spanish 222.** Spanish Literature 1700-Present. 3 hrs.; 3 cr. *Prereq: Spanish 200.*

Survey of major works of Peninsular Spanish Literature from 1700 to the present.

- ✓ **Spanish 230.** Spanish Literature for Children and Adolescents. 3 hrs.; 3 cr. *Prereq: Spanish 200*

The study and analysis of literature written for children and young adolescents in Spanish, in all genres. Special attention will be given to regional and national literary traditions and folklore.

- ✓ **Spanish 240.** Translation I. 3 hrs.; 3 cr. *Prereq: Spanish 200 and English 125.*

Developing skills in translation from Spanish to English, English to Spanish; material will be selected from advertising, journalism, literature, business and other technical areas.

- ✓ **Spanish 241.** Translation II. 3 hrs.; 3 cr. *Prereq: Spanish 241 and English 125.*

Continuation of Spanish 240. More extensive translation of commercial, journalistic, literary and scientific texts.

- ✓ **Spanish 242.** Commercial Spanish. 3 hrs.; 3 cr. *Prereq: Placement by department.* Emphasis on translation of documents, business related materials and newspaper articles, materials obtained from banks, export and import companies, stock exchange, and custom offices dealing with Spanish business transactions. The student will be exposed to a wide range of Spanish commercial terminology. Speakers from various business firms will address the students.

- ✓ **Spanish 280.** Advanced Spanish in the Disciplines I. 1 hr.; 1 cr. *Prereq: Placement by department.*

A recitation class on the advanced proficiency level dedicated to discussions and written assignments on additional primary source material in Spanish, chosen in relation to a specific content area course from another discipline.

- ✓ **Spanish 281.** Advanced Spanish in the Disciplines II. 1 hr.; 1 cr. *Prereq: Spanish 280.*

A recitation class on the advanced proficiency level dedicated to discussions and written assignments on additional primary source material in Spanish, chosen in relation to a specific content area course from another discipline.

- ✓ **Spanish 282.** Advanced Spanish in the Disciplines III. 1 hr.; 1 cr.

Prereq: Spanish 281.

A recitation class on the advanced proficiency level dedicated to discussions and written assignments on additional primary source material in Spanish, chosen in relation to a specific content area course from another discipline.

- ✓ **Spanish 300.** Women Writers from Latin America. 3 hrs.; 3 cr. *Prereq: Spanish 200.*

The wealth of literature written by women from Latin America has been seriously studied and taught since the 1960s. This monographic course examines selected writings from the genres of theatre, novel, poetry, and essay from the colonial era to present times, including Nobel Prize winner Rigoberta Menchu's chilling biography, *I. Rigoberta Menchu*.

- ✓ **Spanish 301.** Romanticismo, Indianismo, Naturalismo, Positivismo and Modernismo in the Spanish Speaking Caribbean. 3 hrs.; 3 cr. *Prereq: Spanish 200.*

Poetry, drama and prose of the nineteenth century through Modernismo in the Spanish speaking Caribbean. Works by such major figures as Villaverde, Gomez de Avellaneda, Galvan, Urena, Zeno Gandia, Hostos, Marti and del Casal will be studied.

- ✓ **Spanish 302.** The Literature of the Spanish Speaking Caribbean After Modernismo. 3 hrs.; 3 cr. *Prereq: Spanish 200.*

Poetry, drama and prose after Modernismo in the Spanish speaking Caribbean. Works by such major figures as Gonzalez, Franco, Barnett, Carpentier, Ferre, Alvarez, Burgos, Mir and Sanchez will be studied.

- ✓ **Spanish 303.** Dominican Literature. 3 hrs.; 3 cr. *Prereq: Spanish 200.*

Dominican literature from its beginning to our day. Works by such major figures as Perez, Ortea, Moscoso, Puello, Marrero Aristy, Mir, Cartegená Portalatin, del Cabral, Mejía, Henríquez Ureña, Imbert Brugal and Sención will be studied.

- ✓ **Spanish 304.** Puerto Rican Literature. 3 hrs.; 3 cr. *Prereq: Spanish 200.*

Introduction to the literature of the Puerto Rican people through the reading of representative works of all genres. Special emphasis placed on the 20th century.

- ✓ **Spanish 305.** Contemporary Theater. 3 hrs.; 3 cr. *Prereq: Spanish 200.*

Analysis of contemporary Spanish and Hispanic-American plays. Students encouraged to participate in the dramatization and presentation of representative plays.

- ✓ **Spanish 306.** Indigenismo in Twentieth-Century Hispanic-American Fiction. 3 hrs.; 3 cr. *Prereq: Spanish 200.*

Exploitation of the Indian in the contemporary social novel and short story.

- ✓ **Spanish 308.** Approaches to Spanish Language Acquisition. 3 hrs.; 3 cr. *Prereq: Spanish 209, Spanish 210, English 125 and Education 351.*

- The analysis of Spanish whole-language development by the native speaker and the non-native speaker through a contrastive study of English and Spanish Syntax. Course will be conducted in Spanish.
- ✓ **Spanish 309.** Comparative Structures of English and Spanish. 3 hrs.; 3 cr. *Prereq: Spanish 208 and English 125.*
Contrastive analysis of the major structural and grammatical differences between English and Spanish. Idiomatic structures, verb tense, aspect and mood, gender, passive voice and other features will be compared and contrasted.
- ✓ **Spanish 310.** Spanish Sociolinguistics. 3 hrs.; 3 cr. *Prereq: Spanish 210.*
The major geographical, stylistic, and social dialects of Spanish. Special attention to bilingualism, regional variations of Spanish, gender discourse and small-group uses of Spanish; language and social mobility; use of Spanish by second and third generation speakers in the U.S.
- ✓ **Spanish 320.** Women Writers from Spain. 3 hrs.; 3 cr. *Prereq: Spanish 200.*
The wealth of literature written by women from Spain has been seriously studied and taught since the 1960s. This monographic course examines works from the various genres from medieval times to the present.
- ✓ **Spanish 321.** Medieval Spanish Literature. 3 hrs.; 3 cr. *Prereq: Spanish 200.*
Reading and discussion of the most important authors from the earliest period through the 15th century. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **Spanish 322.** Literature of the Golden Age. 3 hrs.; 3 cr. *Prereq: Spanish 200.*
Poetry, drama and prose of the 16th and 17th centuries. Works by such major figures as Garcilaso de la Vega, Gongora, Lope de Vega, Calderon, Zayas, etc.
- ✓ **Spanish 323.** Spanish Romanticism & Realism of the 19th Century. 3 hrs.; 3 cr. *Prereq: Spanish 200.*
Poetry, drama and prose of the 19th century in Spain through the Romantic and Realist periods. Works by such major figures as Becquer, Espronceda, Zorrilla, Castro, Aroniz, Fernan Caballero, Valera, Galdos, Pardo Bazan.
- ✓ **Spanish 324.** Generation of 1898 to the Spanish Civil War. 3 hrs.; 3 cr. *Prereq: Spanish 200.*
Representative Spanish authors from the end of the 19th century to 1936
- ✓ **Spanish 325.** Spanish Literature after the Spanish Civil War. 3 hrs.; 3 cr. *Prereq: Spanish 200.*
Novel, drama, essay, and lyric poetry of 20th century Spain after 1936.
- ✓ **Spanish 351.** Cervantes. 3 hrs.; 3 cr. *Prereq: Spanish 200.*
A general survey of Cervantes' works with major emphasis on *Don Quijote*. *This is a writing-intensive course.*
- ✓ **Spanish 413.** Hispanic Civilization. 3 hrs.; 3 cr. *Prereq: Spanish 200 and Spanish 209.*
A comprehensive survey of Iberian and Hispanic-American culture and institutions: Hispanic contributions to world literature, philosophy, music and fine arts. *This is a writing-intensive course.*
- ✓ **Spanish 414.** Seminar: Special Topics. 3 hrs.; 3 cr. * *Prereq: Spanish 200 and Spanish 209.*
Intensive investigation of trends in Hispanic Literature. *Not offered on a regular basis. Availability determined by the department.*
- ✓ **Spanish 415.** Seminar on Poetry. 3 hrs.; 3 cr. * *Prereq: Spanish 200 and Spanish 209.*
A special topic on poetry. The topic varies with each offering.
- ✓ **Spanish 416.** Seminar Narrative Prose. 3 hrs.; 3 cr. * *Prereq: Spanish 200 and Spanish 209.*
A special topic on the novel and/or short story. The topic varies with each offering.
- ✓ **Spanish 417.** Seminar on the Theatre. 3 hrs.; 3 cr. * *Prereq: Spanish 200 and Spanish 209.*
A special topic on the Theatre. The topic varies with each offering.
- ✓ **Spanish 418.** Seminar on an Author. 3 hrs.; 3 cr. * *Prereq: Spanish 200 and Spanish 209.*
The examination of works by a specific author. Authors will vary with each offering.
- ✓ **Spanish 419.** Seminar on Writing. 3 hrs.; 3 cr. * *Prereq: Spanish 200 and Spanish 209.*
A special topic related to writing. The topic varies with each offering.
**These seminars are also offered as Honors Courses, as per work contract between faculty and student.*

Speech Communication

- ✓ **Speech Communication 101.** Oral Communication in Contemporary Society. 4 hrs.; 3 cr. *Prereq: None.*
Persuasion and group communication as a means of making decisions in contemporary society; social problems and the formulation of propositions; the effective use of evidence, inference, motivation, and argument, with special attention given to advocacy and critical refutation; effectiveness in oral communication is stressed through speaking and discussion.
- ✓ **Speech Communication 160.** Fundamentals of Oral Interpretation: Prose and Poetry. 3 hrs.; 3 cr. *Prereq: None.*
Appreciating and sharing the literary experience through reading aloud; analysis and evaluation of various selections in order to apply the basic techniques of reading aloud.

- ✓ **Speech Communication 182.** Voice and Diction. 3 hrs.; 3 cr. *Prereq: None.*

Basic theory of the production of speech and voice; concepts of standards and usage; the sounds of American English and features of voice; techniques and drills.

- ✓ **Speech Communication 183.** Voice and Diction II. 3 hrs.; 3 cr. *Prereq: Speech 182.*

Continuation of theory of production of voice and speech with application to text; emphasis on handling the sentence, finding operative words, clarifying contrasts, making back references.

- ✓ **Speech Communication 203.** Ethics and the Freedom of Speech. 3 hrs.; 3 cr. *Prereq: Sophomore status and Speech 101 or permission of instructor.*

The nature and function of the First Amendment within the context of Supreme Court decisions; origins and substance of ethical considerations which may limit the freedom of speech. Plato, Aristotle, Mill, and various contemporary authors emphasized.

- ✓ **Speech Communication 231.** Rhetorical Composition. 3 hrs.; 3 cr. *Prereq: Speech 101 or permission of instructor.*

Principles, processes, and methods of persuasion with emphasis on the artful use of language according to various motivational patterns; critical and creative problems posed by model speeches as preparation for original composition.

- ✓ **Speech Communication 250.** Introduction to Mass Media. 3 hrs.; 3 cr. *Prereq: Sophomore status.*

The communications media, emphasis on history, scope, function, regulation, and especially social implications.

- ✓ **Speech Communication 321.** Rhetorical Theory and Criticism. 3 hrs.; 3 cr. *Prereq: Sophomore status.*

Origins and evolution of rhetorical theory and practical criticism from ancient times to the present; emphasis on non-oratorical elements, especially contemporary strategies of social control; practice in the application of theory to current rhetorical transactions.

- ✓ **Speech Communication 322.** Theories and Types of Persuasion. 3 hrs.; 3 cr. *Prereq: Junior status or permission of instructor.*

The influencing of belief and behavior through speech; emphasis on the motivational aspects and their evaluations, the relationship of attitude, belief and value to communication; classical and modern rhetorical theory will be considered in context; application of principles to various modes of persuasion.

- ✓ **Speech Communication 333.** Major American Spokesmen. 3 hrs.; 3 cr. *Prereq: Junior status or permission of instructor.*

American oratory by major spokespersons dealing with vital issues and movements in American history; the context of public address, and the ideas, role, and followers of American spokespersons; foreign oratory in translation introduced when necessary. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Speech Communication 341.** Communications in Small Groups. 3 hrs.; 3 cr. *Prereq: None.*

Principles, psychology, and the methods of group communications; practice sessions in group discussion and discussion leadership from a communications viewpoint.

- ✓ **Speech Communication 350.** Persuasion and Propaganda in Television. 3 hrs.; 3 cr. *Prereq: Speech 250.*

The nature of persuasion and propaganda as applied to all facets of television programming, both commercial and public. Outside speakers may address the class. *Not offered on a regular basis. Availability to be determined by the department.*

- ✓ **Speech Communication 390-392.** Special Studies Seminar I-III. 3 hrs.; 3 cr. each. *Prereq: Permission of instructor.*

An intensive study of a selected topic from a speech area. The topic varies with each offering.

- ✓ **Speech Communication 490.** Independent Research. Hours arranged; 3 cr. *Prereq: Senior status and 12 credits in Speech or permission of instructor.*

Intensive individually guided advanced research in a speech area.

Student Development

- ☆ **Student Development 101.** Developing Individual Life Styles. 1 hr.; 1 cr. Pass/Fail. *Prereq: Entering or Lower Freshmen.*

Consideration of intellectual, emotional, social and vocational aspects of development, with an emphasis on one's personal values.

Student Development 102-105. Practicum in Learning Techniques and Problem-Solving. 3 hrs. lab; 1 cr. Pass/No Credit. Offered by every department. *Prereq: Students must obtain permission from their department chair in order to register.* Not credited toward fulfillment of Teacher Education Program Requirements or N.Y. State Education Certification Requirements. Supervised experience in the application of various learning strategies and techniques.

- ☆ **Student Development 110.** Developing Success in College. 2 hrs.; 2 cr. *Prereq: Entering or lower freshmen.* Not open to students with credit in Student Development 101.

Intensive exploration of study skills techniques, career and vocational development, values formation, learning processes and all areas pertinent to the college experience.

Student Development 120. Individual Career Development. 2 hrs.; 2 cr. *Prereq: none.* Not open to students with credit in Cooperative Education 101, Student Development 201 or 301.

Intensive career exploration from theoretical, practical and personal perspectives; an examination of modes of career exploration and of alternate routes to the world of work; job search techniques; resume writing; the job interview.

Swahili

- √ **Swahili 101.** Elementary Swahili I. 4 hrs.; 4 cr. *Prereq: None.*
Offered when the demand exists.
Basic principles of a beginner's course; designed to give the foundations of the language.
- √ **Swahili 102.** Elementary Swahili II. 4 hrs.; 4 cr. *Prereq: Swahili 101.* *Offered when the demand exists.*
Continuation of the beginner's course; more complex grammatical structures, integrated readings and further practice in conversation.

Theatre Arts

- √ **Theatre Arts 110.** Introduction to the Theatre. 3 hrs.; 3 cr. *Prereq: None.*
Theatrical theory in historical context beginning with the Greeks. Including written play analysis and the application of this analysis to concepts of lighting, costuming, scene design, and performance. At the end of the semester students participate in a short class production. Field trips may be included and outside speakers may be invited.
- ☆ **Theatre Arts 112.** Voice and Stage Movement for Actors I. 1 hr. lecture; 1 hr. recitation; 2 hrs. laboratory, 3 cr. *Prereq: None.*
Intensive instruction in voice and speech for acting: voice production, range expansion and control, sound formation and delivery. *Not offered on a regular basis. Availability to be determined by the department.*
- ☆ **Theatre Arts 113.** Voice and Stage Movement for Actors II. 1 hr. lecture; 3 hrs studio; 2 cr. *Prereq: Speech 112.*
Continuing study in stage movement, including mime, mask work, and stylized movement; continuing work in voice and speech, including classical performance, dialects, accents. *Not offered on a regular basis. Availability to be determined by the department.*
- ☆ **Theatre Arts 114.** Stagecraft I. 4 hrs.; 3 cr. *Prereq: None.*
Techniques in construction of stage scenery and properties, sewing, lighting, and the work of the stage manager. Crew assignments involving outside class hours required. Field trips may be included and outside speakers may be invited.
- ☆ **Theatre Arts 115.** Stagecraft II. 4 hrs.; 3 cr. *Prereq: None.*
Continuation of TA 114; emphasis on scenery, stage properties, and work of the stage manager. Crew assignments involving outside class hours required. Field trips may be included and outside speakers may be invited.
- √ **Theatre Arts 211.** Basic Acting. 4 hrs.; 3 cr. *Prereq: None.*
The elements of acting; physical and vocal relaxation and concentration; sense memory and emotional recall; prepared scenes and improvisations. Field trips may be included and outside speakers may be invited.

- √ **Theatre Arts 212.** Scene Study. 4 hrs.; 3 cr. *Prereq: Theatre Arts 211 or permission of the department.*
Continuation of TA 211: emphasis on character analysis and techniques of character portrayal. Field trips may be included and outside speakers may be invited. *Not offered on a regular basis.*
- ☆ **Theatre Arts 215-219.** Studies in Theatre Practice I-V. 1 hr. lecture; 4 hrs. laboratory; 3 cr. *Prereq: Permission of instructor.*
Acting, directing, stage lighting, scene design, costuming, or other aspects of theatre related to the college production. Lectures by director and outside artists. Lab hours involve creative problem solving and realization of theatrical concepts.
- √ **Theatre Arts 261.** Intermediate Oral Interpretation: Drama. 3 hrs.; 3 cr. *Prereq: Speech 160.*
Theory, technique, and practice of the interpretation of drama; some attention to non-interpretative view points: the author, critic, philosopher, and auditor.
- √ **Theatre Arts 311.** Fundamental of Directing. 4 hrs.; 3 cr. *Prereq: Theatre Arts 115 and 211 or permission of instructor.*
Directorial controls: concentration on various methods of realizing the theatrical content of a given script; work required on major production as assistant director, stage manager, or assistant stage manager. Field trips may be included and outside speakers may be invited.
- √ **Theatre Arts 314.** Computer Design for the Stage. 1 hr. lecture; 1 hr. recitation; 2 hrs laboratory; 3 cr. *Prereq: Theatre Arts 110 and 114, basic computer skills and /or permission of instructor.*
A review of the history of the architectural elements in theatrical scenic design: AutoCad and DesignCad programs used for construction and display. Drawing techniques in 2-D and 3-dimensional format.
- √ **Theatre Arts 316.** Performance for Television. 1 hr. lecture; 1 hr. recitation, 2 hrs. laboratory; 3 cr. *Prereq: Speech 160 or Theatre Arts 211 or permission of instructor.* History, theory and practice of television performance as distinct from stage performance. Includes dramatic and non-dramatic forms of presentation that can be adapted to the professional goals of the students. Original writing required for some assignments. Outside speakers may be invited.
- √ **Theatre Arts 317.** Theatrical Criticism. 3 hrs.; 3 cr. *Prereq: Theatre Arts 115 and 211 or permission of instructor.*
Principles of dramatic criticism from Aristotle to the present day; critical standards and methods; their application in the evaluation of drama in performance. Attendance at theatrical performances required. Outside speakers may be invited.
- √ **Theatre Arts 390 - 392.** Special Studies Seminar I-III. 3 hrs.; 3 cr. each. *Prereq: Permission of instructor.*
An intensive study of a selected topic from an area in Theatre Arts. The topic varies with each offering.
- √ **Theatre Arts 411.** History of Avant-Garde Performance. 3 hrs.; 3 cr. *Prereq: Theatre Arts 110 or permission of instructor.*

Trends in modern theatre-experimental theatre groups, new techniques, new playwrights discussed; the historical foundations of these trends traced to their sources in Symbolism and Expressionism. Written work and attendance at New York avant garde performances are required.

- ✓ **Theatre Arts 490.** Independent Research. Hours arranged. 3 cr. *Prereq: Senior status and 12 credits in Theatre Arts or permission of instructor.* Intensive individually guided advanced research in a theatre arts area.

World Literature

- ✓ **World Literature 201.** The Literature of the Western World Through the Renaissance. 3 hrs.; 3 cr. *Prereq: English 125* (not open to students with credit in English 310)
Major Greek and Roman contributions to Western thought; primary sources in history, poetry and philosophy, read in English.
- ✓ **World Literature 205.** Introduction to Francophone Literature 3 hrs.; 3 cr. *Prereq: English 125.*
Contemporary literature written in French from the West Indies, North and Sub-Saharan Africa. This course proposes to read the most interesting and problem-revealing works which have been translated into English.
- ✓ **World Literature 206.** Introduction to the Literature of the Caribbean. 3 hrs.; 3 cr. *Prereq: English 125.*
Introduction to the literature of the Caribbean.
- ✓ **World Literature 207.** Introduction to Latin American Literature. 3 hrs.; 3 cr. *Prereq: English 125*
Introduction to the literature of Latin America
- ✓ **World Literature 210:** French Masterpieces in Translation 3 hrs.; 3 cr. *Prereq: Sophomore status or permission of instructor.* Not credited toward fulfillment of French major requirements. Not open to students with credit in French 327, 328 or 329.
French literary masterpieces of the 19th and 20th centuries of such authors as Balzac, Stendhal, Baudelaire, Gide and Camus.
- ✓ **World Literature 211:** Italian Theatre in Translation. 3 hrs.; 3 cr. *Prereq: English 125.*
The modern dramatists Luigi Pirandello and Ugo Betti; the plays of such dramatists as Alfieri and Goldoni; the establishment and influence of Italy's famed commedia dell'arte. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **World Literature 212.** Masterpieces of Spanish Literature In Translation. 3 hrs.; 3 cr. *Prereq: English 125.* Not credited toward fulfillment of Spanish Major requirements.
Representative works from the origins of Spanish Literature to the present. *Not offered on a regular basis. Availability to be determined by the department.*
- ✓ **World Literature 225.** Introduction to Latino Literature in the U.S.; 3 hrs.; 3 cr. *Prereq: English 125.*
Introduction to the literature of Latinos in the U.S.

- ✓ **World Literature 226.** Contemporary Women Writers in World Literature. 3 hrs. Lecture, 3 cr. *Prereq: English 125.*

Introduces students to significant literature written by women in the 19th and 20th centuries throughout the world.

Writing

- ✓ **Writing 301.** Research and Writing for the Major. 2 hrs. lecture; 2 hrs. lab.; 3 cr. *Prereq: junior status and permission of the major program; completion of English 125; Academic Computing 101 or equivalent computer skills.*

Research, reading, and writing for upper-division courses; drafting, revising, editing, and formatting documents. Readings are drawn primarily from the humanities and social sciences. Assignments will encourage students to explore the research resources, patterns of discourse, and conventions of their own major disciplines.

- ✓ **Writing 302.** Research and Writing for the Sciences, Mathematics, and Technology. 2 hrs. lecture; 2 hrs. lab.; 3 cr. *Prereq: junior status and permission of the major program; completion of English 125; Academic Computing 101 or equivalent computer skills.*

Research, reading, and writing for upper-division courses in the sciences, mathematics, and technology; drafting, revising, editing, and formatting documents. Readings will be drawn from the areas of science and technology. Assignments will encourage students to explore the research resources, patterns of discourse, and conventions of their own major disciplines.

- ✓ **Writing 303.** Research and Writing for Professional Programs. 2 hrs. lecture, 2 hrs. lab. ; 3 cr. *Prereq: junior status and permission of the major program; completion of English 125; Academic Computing 101 or equivalent computer skills.*

Research, reading, and writing for upper-division courses in business and professional programs and in preparation for professional tasks in field work settings; drafting, revising, editing, and formatting documents. Readings will be drawn primarily from areas pertinent to professional concerns. Assignments will encourage students to explore the research resources, patterns of discourse, and conventions of their own major disciplines.

Yiddish

- ✓ **Yiddish 101.** Elementary Yiddish I. 4 hrs.; 4 cr. *Prereq: None. Offered when the demand exists.*

Basic principles of a beginner's course; designed to give the foundations of the language.

- ✓ **Yiddish 102.** Elementary Yiddish II. 4 hrs.; 4 cr. *Prereq: Yiddish 101. Offered when the demand exists.*

Continuation of the beginner's course; more complex grammatical structures, integrated readings and further practice in conversation.



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 Ruiz, Rosemarie, Associate Professor, Accounting
 B.A., New York University; M.B.A., Pace University; C.P.A.
 Ruttenberg, Howard S., Professor, Philosophy
 B.A., Ph.D., University of Chicago
 Ryan, James, Associate Director, Web Communications, Institutional
 Advancement
 B.A. Dartmouth College
 Sabio, Michelle, Assistant to Director, Admissions
 B.A., Bernard M. Baruch College
 Salcedo, Michaelangel, Assistant Professor, Math & Computer
 Studies
 Ph.D, City University of New York
 Schachter, Joseph, Associate Professor, Economics
 B.S., C.C.N.Y.; Ph.D., City University of New York
 Schilling, Sarah L., Associate Professor, Speech
 B.A., M.A., Western Reserve University
 Schleifer, Stanley, Assistant Professor, Geology
 B.S., M.A., Brooklyn College; Ph.D., City University of New York
 Schlein, Jack M., Professor, Biology
 B.S., Brooklyn College; M.S., Ph.D., Lehigh University
 Schreiner, Arleen Cedeno, Professor, Student
 Development/Counseling
 B.A., Hunter College; M.S., Queens College; Ed.D., Fordham
 University
 Sedzro, Christian, College Laboratory Technician,
 Educational Technology/Academic Computing
 B.S., York College
 Seitz, Jay, Associate Professor, Psychology
 A.B., Rutgers College, M.A., New School for Social Research;
 M.A., M.Phil., Ph.D., The Graduate School/CUNY
 Serrano, Lucienne, Professor, French
 License in Law; Diplome d'etudes Superieures de Doctorat
 d'Histoire du Droit Francais, Faculte de Droit, Sorbonne;
 Ph.D., City University of New York
 Shilling, Wynne A., Associate Professor, Teacher Education
 B.S., University of Bridgeport; M.S., Queens College;
 M.A., Ed.D., Hofstra University
 Shipp, Veronica, Assistant Professor, Teacher Education
 Ph.D, Indiana University/Bloomington
 Simkin, Phillips M., Professor, Fine Arts
 B.F.A., Temple University; M.F.A., Cornell University
 Smith, Cheryl, Assistant Vice President, Academic Affairs,
 B.S., M.S./M.P.H., M.Ed., Ed.D., Teachers College, Columbia
 University
 Smith, Michael, Educational Television Developer, Educational
 Technology/Academic Computing
 M.F.A., Tufts College
 Spergel, Martin S., Professor, Physics
 B.S., Rensselaer Polytechnic Institute; M.A., Ph.D., University of
 Rochester
 Srivastava, Shyamji, Director of Computer Services
 M.S., Michigan State University
 St. John, Ronald, Facility and Special Events Coordinator,
 Health & Physical Education
 B.S., York College
 Stanfield, Johnnie Mae, Assistant to Director, SEEK
 B.A., York College
 Stanley, Ronald, Assistant to the Registrar, Registrar's Office
 A.S., Ohlone College; B.A., York College/CUNY
 Stern, Lorraine, Assistant Professor, Accounting
 B.A., Queens College; M.S., C.W. Post; C.P.A.

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Strassberg, Helen, Professor, Mathematics
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Ph.D., City University of New York

Stuckhardt, Richard, Assistant Director, Admissions Services
B.A., Brooklyn College; M.P.A., American University

Su, Di, Associate Professor, Library
B.A., The Shanghai Conservatory of Music; M.M., West Virginia
University, M.M., The University of Connecticut; M.L.S., SUNY
Albany

Sumter, Antoinette, Health Programs Coordinator
B.A., York College; M.A., John Jay College of Criminal Justice

Sunmonu, Adefemi, Associate Professor, Mathematics/Computer
Studies
B.S.C., University of Nigeria; M.S.C., University of I.F.E.;
M.S., Ph.D., University of Pittsburgh

Swoboda, Debra, Assistant Professor, Political Science and
Psychology
B.A., M.A., Ph.D., SUNY, Stony Brook

Tewfik, Diane, Associate Professor, Health Sciences
M.A., New York University

Thomas, Ronald C., Associate Dean, (Acting) Institutional
Advancement
B.A., Fordham University, M.A., New School for Social Research

Thomas, Sheila, Director of Human Resources
B.S., York College

Tok, Jeffery, Associate Professor, Natural Sciences
B.S., University of Michigan, Ph.D., University of Chicago

Tsiapanos, Cathy, Director, Financial Aid
M.F.A., University of California

Tyson, Stephen A., Director to Bridge-to-College Programs
Academic Affairs
M.A., Adelphi University

Udofia-Ekpo, Eme, Associate Professor, Nursing
Ph.D, St. Louis University

Urquhart, Yvette, Associate Dean of Faculty and Staff Relations
A.A., Bronx Community College; B.B.A., M.B.A., Baruch
College/CUNY; Advanced Certificate, Cornell University

Van Brackle, June, Acting Director, Public Relations, Institutional
Advancement
B.A., Queens College, CUNY

Vasquez, Eva, Assistant Professor, Foreign Languages
B.A., University of Puerto Rico; M.A., Hunter College;
Ph.D., Graduate School of University

Vendryes, Margaret, Associate Professor, Fine & Performing Arts
Ph.D, Princeton University

Villegas, Francisco, Associate Professor, Psychology
A.A., Kingsborough Community College; B.A., City College;
Ph.D., CUNY Graduate Center

Voll, Susan, College Laboratory Technician, Educational
Technology/Academic Computing
B.A., York College

Waldman, Gloria F., Professor, Spanish
A.B., C.C.N.Y.; M.A., Cornell University; Ph.D., City University of
New York

Weil, Edward B., Provost and Vice President, Academic Affairs
B.A. Queens College, M.A., Ph.D., SUNY at Buffalo

Wenden, Anita L., Professor, E.S.L./Foreign Languages

B.Ed., Rogers College; M.A., Ed.D., Teachers College,
Columbia University

Werber-Zion, Galila, Assistant Professor, Health and Physical
Education, M.S., Tel Aviv University, Ph.D., University of Florida

Williams, Cheryl, Director, SEEK Program
B.A., SUNY Albany, M.A., Hunter College

Williamson, Yvette, Assistant Business Manager, Business Office
M.S.Ed, Baruch College/CUNY

Wolosin, Dora, Assistant Professor, Health Sciences
Ph.D., New York University

Wright, Herman, Student Services Coordinator, Counseling
M.S., City College/CUNY

Wu, Tsu Chih, Professor, Mathematics
B.S., Taiwan University; M.S., Tsinghua University;
M.A., Ph.D., Columbia University

Young, Hope, Associate Professor, Library
B.S., Andrews University; M.L.S., SUNY Buffalo; M.S., College
of New Rochelle

Young, Paul E., Professor, Chemistry
A.B., Swarthmore College; Ph.D., University of Chicago

Yu, Ying-Kit, Network Manager, Educational
Technology/Academic Computing, Academic Affairs

Zelinsky, Karen, Assistant Professor, Health Sciences
Ph.D., St. John's University

Adjunct Faculty

A part of the instructional program of the college is carried out by adjunct or part-time faculty. Use of adjunct faculty permits flexibility in staffing and thereby accommodates changes in enrollment patterns among disciplines without major effects on full-time staffing. Adjunct faculty hold the same qualifications as do full-time faculty. Their instructional activities are under the supervision of the department chairs and their course offerings are integral parts of the disciplines' educational programs. During the Fall term of 1996, the college had 146 full-time teaching positions and employed 250 adjunct faculty.

Classified and Support Staff

Abernathy, Dwayne, Campus Peace Officer 1, Security

Albertini, Jane, CUNY Administrative Assistant, Natural Sciences

Amarjit, Kaminie, Information Systems Assistant 2, Computer
Services, B.S. York College/CUNY

Arminas, Lawrence, Oiler, Buildings & Grounds

Arutyunants, Eduard, Campus Peace Officer, Security

Avila, Francisco, Custodial Supervisor, Buildings & Grounds

Bactawar, Clement, City Laborer, Buildings & Grounds

Badillo, Edwin, Custodial Assistant, Buildings & Grounds

Bardwell, Kevin, Custodial Supervisor, Buildings & Grounds

Basdeo, Radha, Campus Peace Officer, Security

Bassit, Khemraj, Custodial Assistant, Buildings & Grounds

Beckles, Harriet, CUNY Administrative Assistant, Purchasing

Boujja, Ana, CUNY Office Assistant, Enrollment Management

Bradley, Earley, Custodial Assistant, Buildings & Grounds

Brun-Theus, Marjorie, College Accounting Assistant, Business
Office, B.S., College of Staten Island

Budgell, James, Maintenance Worker, Buildings & Grounds

Campbell, Caroline, CUNY Administrative Assistant, Buildings &
Grounds

Carr, Carol, CUNY Administrative Assistant 2, Registrar's Office
 Chan, Hiuichu, College Accounting Assistant,
 B.S., Xiamen University
 Chan, Kam Wah, Maintenance Worker, Buildings & Grounds
 Chen, Shwu-Jung, College Accountant, Payroll, B.A., Tam Kang
 College, Taiwan
 Clarke-Gordon, Jennefer, CUNY Office Assistant Level 1, Library
 Colon, Nayda, Custodial Assistant, Buildings & Grounds
 Cooley, Amos, Custodial Assistant, Buildings & Grounds
 Cooper, Katrina, CUNY Office Assistant, Academic Affairs
 Coore, Linda, Custodial Assistant, Buildings & Grounds
 Crosdale, Dario, Campus Peace Officer, Security
 Cumberbatch, Eulyn, Custodial Supervisor, Buildings & Grounds
 Davis, Coleen, CUNY Office Assistant Level 1, Bursar, AA,
 Katharine Gibbs School
 Dawes, Wilfred, College Print Shop Associate, Printing Services
 Dease, Symone, CUNY Office Assistant, President's Office
 Delacruz, Sandra, College Accounting Assistant, Business Office
 Desvarieux, Clifford, Information Systems Aide, Career Services
 Diaz, Jorge, Locksmith, Buildings & Grounds
 Diaz, Luis, CUNY Custodial Assistant, Buildings & Grounds
 Diggs, Sandra, CUNY Office Assistant, Health Services
 Downey, Keith, College Print Shop Assistant 2, Publications
 Dunne, Rose, CUNY Administrative Assistant, Library
 Erb, James, Carpenter, Buildings & Grounds
 A.A.S., SUNY
 Etienne, Yves, Supervisor Stock Workers, Business Office
 Facey, Nehemiah, CUNY Custodial Assistant, Buildings & Grounds
 Faranda, Anthony, Electrician, Buildings & Grounds
 Faustino, Gloria, Staff Nurse, Health Services
 Federico, Robert, Painter, Buildings & Grounds
 Fellows, David, Stationary Engineer, Building & Grounds
 Fellows, George, Supervisor of Mechanics, Building & Grounds
 A.A.S., SUNY
 Ferrens, Starr, CUNY Office Assistant Level 1, Vice President
 Flores, Rebecca, CUNY Office Assistant Level 1, Library
 Fludd, Milton, CUNY Custodial Assistant, Buildings & Grounds
 Fludd, Paul, Custodial Assistant, Buildings & Grounds
 Foley, Glenn, Campus Peace Officer, Level 1, Security
 Forte, Tyrone, Campus Public Safety Sergeant, Security
 Freeman, Elvera, CUNY Office Assistant 4, Foreign Languages
 Fyffe, Darrell, Campus Peace Officer, Security
 Galashaw, Celia, Campus Public Safety Sergeant, Security
 Garcia, Jean, Information Systems Assistant, Computer Services
 Gault, Geraldine, Assistant Purchasing Agent, Purchasing Office
 Gentry, Nicole, CUNY Administrative Assistant, Health Sciences
 Givens, Janice, CUNY Administrative Assistant, Library
 Goebel, Joseph, Stationary Engineer, Buildings & Grounds
 Goffredo, Joseph, Chief Administrative Supervisor, Buildings &
 Grounds
 Gordon, Donna, CUNY Office Assistant, Admissions
 Graziosa, Joseph, Mail/Message Services Worker, Mailroom
 Green, Geraldine, CUNY Office Assistant, Academic Affairs
 Green, Roy, Custodial Assistant, Buildings & Grounds
 Griffith, George, CUNY Custodial Assistant, Buildings & Grounds
 Griffith, Jean, Custodial Assistant, Buildings & Grounds
 Gulston, Genova, CUNY Administrative Assistant, President's Office
 Hall, Barbara, CUNY Administrative Assistant, Welcome Center
 A.A.S., Plaza Business Institute

Hamilton, Anthony, Custodial Assistant, Buildings & Grounds
 Hanif, Mahamed, Electrician, Buildings & Grounds
 Hanson, Georgia, Information Systems Aide, Business Office
 Harrington, Timothy, Campus Peace Officer, Security
 Hartford, Angel, Campus Peace Officer, Level 1, Security
 Hawkins, Sharon, CUNY Administrative Assistant 2, Academic
 Affairs, B.A., York College
 Hayes, Mary D., CUNY Administrative Assistant, Educational
 Technology/Academic Computing, B.A., York College
 Headcock, Monica, Custodial Assistant, Buildings & Grounds
 Henry, Kevin, Campus Peace Officer, Security
 Herbert, Trevor, Custodial Assistant, Buildings & Grounds
 Heywood, Joycelyn, CUNY Administrative Assistant, Fine &
 Performing Arts
 Hilliard, Melvin, Campus Peace Officer, Security
 Hurlman, Richard, City Laborer – A, Buildings & Grounds,
 Maintenance
 Isaac, Tyrane, Campus Peace Officer 1, Security
 James, Cecil, Custodial Assistant, Buildings & Grounds
 James, Myra, CUNY Office Assistant, Health Sciences/Nursing
 James, Terri, CUNY Office Assistant, Career Services
 Jammeh, Bakary, Mail/Message Services Worker, Mailroom
 Johnson, Carol, CUNY Administrative Assistant, Accounting &
 Business
 Johnson, Stanford, Campus Peace Officer, Security
 Jones, Ray, Oiler, Buildings & Grounds
 Jordan, Evelyn, Custodial Assistant, Buildings & Grounds
 Joseph, Genevieve, CUNY Administrative Assistant, Administrative
 Affairs,
 B.S., York College/CUNY; A.A.S., Queens Borough Community
 College
 Jung, Becky, College Accounting Assistant, Business Office
 Khan, Bibi, CUNY Office Assistant, Social Science
 Kimbrough, Nadine, CUNY Custodial Assistant, Buildings & Grounds
 King, James, CUNY Custodial Assistant, Buildings & Grounds
 Kinloch, Juanita, CUNY Office Assistant, Security
 Koutsidis, Anastasia M., Campus Peace Officer, Security
 Kwan, Wing S., Information Systems Specialist 2, Computer
 Services B.A. York College
 Lacey, Derek, Campus Peace Officer, Security
 Laibach, Carl, Electrician, Buildings & Grounds
 Lanas, Consorcio, Maintenance Worker, Buildings & Grounds
 Lane, Timothy, Laborer, Buildings & Grounds
 Langner, Siegfried, Maintenance Worker, Buildings & Grounds
 Liu, Hui-Ping, College Accounting Assistant, Payroll
 Lo Pinto, Joseph, College Graphics Designer, Publications
 A.A., New York City Technical College, B.A., Hunter College
 Lovell, Aquila, CUNY Office Assistant, Political Science &
 Psychology
 Madkins, Tracey, CUNY Office Assistant Level 2, Student
 Development
 Maguire, Edward, Painter, Buildings & Grounds
 Manel, Vanessa, CUNY Office Assistant, History and Philosophy
 Martinez, John, Campus Peace Officer, Security
 Mathis, David, Custodial Assistant, Buildings & Grounds
 Maurer, James, Oiler, Buildings & Grounds
 McAndrews, Thomas, Stationary Engineer, Buildings & Grounds
 McBarnett, Sheryl, CUNY Office Assistant, Registrar's Office
 B.S., York College

McCall, Melvin, City Laborer, Buildings & Grounds
McCullough, Mark, Custodial Assistant, Buildings & Grounds
Meyers, Vickitoy, CUNY Office Assistant, Library
Mitchell, Robert, Campus Peace Officer, Security
Morris, Donald, City Laborer, Buildings & Grounds
Mosby, Gow, Campus Public Safety Sergeant, Security
B.S., University of Wyoming
Motz, Peter, Stationary Engineer, Buildings & Grounds
Myles, Lorna, CUNY Office Assistant, Academic Affairs/Education
Nelson, Cynthia, CUNY Office Assistant, Buildings & Grounds
Nelson, Isaac, CUNY Custodial Assistant, Buildings & Grounds
Ogilvie, Rudolph, Oiler, Buildings & Grounds
A.A.S., New York City Technical College
Pase, Diane, CUNY Administrative Assistant, Human Resources
Patton, Jayne, College Accounting Assistant, Business Office
Pegues, Trina, Custodial Assistant, Buildings & Grounds
Persuad, Ushuani, CUNY Office Assistant, Admissions
Peters, Cyril, Campus Peace Officer, Security
Philson, Rachael, CUNY Office Assistant, Academic Affairs
Pinckney, Keric, CUNY Custodial Assistant, Buildings & Grounds
Piscitelli, Robert, Stationary Engineer, Buildings & Grounds
A.A.S., New York City Technical College/CUNY
Quinn, Daniel, Oiler, Buildings & Grounds
Quinones, Alfredo, Maintenance Worker, Buildings & Grounds
Ramcharitar, Emily, CUNY Office Assistant, Registrar
Ramnauth, Latchman, College Print Shop Associate,
Printing Services
Rampertapsingh, Dwarika, Campus Peace Officer, Security
Rampioray, Mehtah, Campus Peace Officer 1, Security
Reece, Nona, CUNY Office Assistant, Registrar's Office
B.S., Drexel University
Rich, Barbara, Campus Peace Officer, Security
Roberts, Marlene, CUNY Administrative Assistant, English
Roberts, Pauline, Custodial Assistant, Buildings & Grounds
Rodriguez, Daniel, Maintenance Worker, Buildings & Grounds
Roew, Glen, Maintenance Worker, Buildings & Grounds
Rogers, Angela, CUNY Office Assistant, Student
Development/Counseling
Roman-Acosta, Miguelina, CUNY Office Assistant, Enrollment
Management
Ross, Agnes, CUNY Office Assistant, Natural Sciences
B.A., University of Connecticut
Royal, Glenda, CUNY Administrative Assistant, Political
Science/Psychology
B.A., Queens College
Samlall, Kampta, Maintenance Worker, Buildings & Grounds
Sample, Dorothy, CUNY Office Assistant, Natural Sciences
Samuels, Milverton, Campus Peace Officer, Security
Santos, Felino, Senior Stationary Engineer, Buildings & Grounds
Sapp, Trina, CUNY Office Assistant, Student Development
Saunders, Austin, Oiler, Buildings & Grounds
Scott, Devon, Custodial Assistant, Buildings & Grounds
Shankman, Lynn, College Accountant, Accounts Payable
B.S., York College
Shiwnath, Paramdai, CUNY Administrative Assistant, Mathematics
Singh, Chatrapaul, Campus Peace Officer, Security
Simmons, Jeannie, CUNY Office Assistant, Faculty and Staff
Relations
A.A.S., Fiorello LaGuardia Community College

Smith, James, City Laborer, Buildings & Grounds
Smith, Suzette, Campus Peace Officer, Security
Sogoni, Manuel, Campus Peace Officer, Security
Spence, Alindo, Maintenance Worker, Buildings & Grounds
Stimpfl, Richard, Steamfitter, Buildings & Grounds
Suarez, Edwin, Campus Peace Officer, Security
Surdo, Francesco, Custodial Assistant, Buildings & Grounds
Tainey, Irene, CUNY Administrative Assistant – 1B, Counseling
Talukdar, Jagannath, Purchasing Agent, Purchasing
B.S. Indian Institution of Technology
Tamarez, Lucia, Custodial Assistant, Buildings & Grounds
Toomer, Denise, Campus Peace Officer, Security
Tsang, Eastman, CUNY Office Assistant Level 1, Foreign Languages
Tucker, Victor, Campus Peace Officer, Security
Valcin, Krafins, Information Systems Assistant 1, Computer Services
B.S. John Jay College of Criminal Justice
Vasconcellos, Frieda, Custodial Assistant, Buildings & Grounds
Vasquez, Elton, Custodial Assistant, Buildings & Grounds
Villavicencio, Miguel, Custodial Assistant, Buildings & Grounds
Wallace, Robert, City Laborer, Buildings & Grounds
Wang, Shihliang, College Accounting Assistant, Business Office
Waters, Lawrence, Supervisor of Electricians, Buildings & Grounds
Watson, Joy, Custodial Supervisor, Buildings & Grounds
Watson, Wilton, Custodial Assistant, Buildings & Grounds
Wigfall, Mary, CUNY Office Assistant, Human Resources
A.A.S., LaGuardia Community College
Wiggins, Adrian J., Campus Public Safety Sergeant;
B.A. York College
Williams, Eva, Senior Custodial Supervisor,
Buildings & Grounds
Wilson, Lawrence, CUNY Custodial Supervisor, Buildings & Grounds
B.S., C.W. Post
Yacavonis, Catherine, CUNY Administrative Assistant, Budget
Office, A.A., Fashion Institute of Technology; B.S. York
College/CUNY
Yuan, Lawrence, Elevator Mechanic, Buildings & Grounds
Zapata, Carolina, CUNY Office Assistant 2, Health & Physical
Education

Policies

A. Academic Freedom — University Position

The Board of Trustees subscribes to the Concepts of Academic Freedom expressed by the AAUP as follows:

- (a) The teacher is entitled to full freedom in research and in the publication of the results, subject to the adequate performance of his/her other academic duties; but research for pecuniary return should be based upon an understanding with the authorities of the institution.
- (b) The teacher is entitled to freedom in the classroom in discussing his/her subject, but he/she should be careful not to introduce into his/her teaching controversial matter which has no relation to his/her subject.
- (c) The college or university teacher is a citizen, a member of a learned profession, and an officer of an educational institution. When he/she speaks or writes as a citizen, he/she should be free from institutional censorship or discipline, but his/her special position in the community imposes special obligations. As a person of learning and an education officer, he/she should remember that the public may judge his/her profession and his/her institution by his/her utterances. Hence, he/she should at all times be accurate, should exercise appropriate restraint, should show respect for the opinion of others, and should make every effort to indicate that he/she is not an institutional spokesperson.

In addition, staff members should be familiar with the "Resolution in Regard to the Maintenance of Public Order" which was passed by the BHE in June, 1969 and which is published in this bulletin.

B. Equal Opportunity and Affirmative Action Policy

York College of The City University of New York is an Equal Opportunity and Affirmative Action Institution. It does not discriminate on the basis of gender, age, color, race, religion, national or ethnic origin, alien age or citizenship, sexual orientation, transgender orientation, genetic predisposition or carrier status, disability, veteran or marital status in its student admissions, employment, access to programs and administration of educational and human resources policies.

To ensure equal opportunity for all qualified persons, in deed as well as intent, the College will continue to engage in a positive and on-going affirmative action program that will overcome the causes, as well as the conditions of de facto discrimination in employment against women and minorities. This program is in compliance with the requirements of Federal Executive Order 11246, as amended by 11375 and 12086; the Equal Pay Act of 1963; Titles VII and IX of the Civil Rights Act of 1964; the Civil Rights Act of 1991; Section 504 of the Rehabilitation Act of 1973; the Americans with Disability Act of 1990; and Section 402 of the Vietnam Era

Veterans Readjustment Assistance Act of 1974. In addition, York's policies and practices comply with all affirmative action policies of the Board of Trustees of The City University of New York. The College recognizes its obligation to students, to provide equality of access, to educate, and to offer all available services without regard to gender, age, color, religion, national origin, race, sexual orientation, veteran or marital status or disability.

As an employer, acting in conformity with federal legislation, and as an educational institution, York College believes in a policy of non-discrimination and recognizes its obligation to maintain an environment free of sexual harassment for its students, faculty, and staff. The College is committed to a policy of equal employment opportunity and affirmative action. Human resources decisions B recruitment, hiring, training, promotion and compensation B are made in all job categories on the basis of bona fide work related qualifications. Discrimination of any kind against any student, faculty or staff member will not be tolerated.

Overall responsibility for the affirmative action program is assigned to the Executive Director of Compliance and Legal Affairs, Olga Dais, Esq., located in 2H01. The phone number is 262-2140.

Other persons assigned to ensure this policy statement is adhered to may be found in the following campus locations: Affirmative Action Committee, Prof. Conrad Dyer: Room 4D06, 262-2986

Title IX Committee Coordinator, Gloria Waldman, Tel. x2438
Section 504/ADA Coordinator, Prof. Marie Caresse Araoz, Tel. x2272

Counseling Office, Room 1G02, 262-2272

Coordinator of Sexual Harassment Panel,
Prof. Arleen Schreiner, Tel.2272

Deputy Coordinator of Sexual Harassment Panel, Olga Dais, Esq., Room 2H01 Tel. X 2140

Chair of Sexual Harassment Education Panel,
Prof. Linda Grasso, Tel. x 2490

C. Education Law C Section 224-a

Students unable because of religious beliefs to 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 is unable, because of his religious beliefs, 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 religious beliefs, 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 religious beliefs, an equivalent opportunity to make up any examination, study or work requirements which he may

have missed because of such absence on any particular day or days. No fees of any kind shall be charged by the institution for making available to the said student such equivalent opportunity.

4. If classes, examinations, study or work requirements are held on Friday after four o'clock post meridian or on Saturday, similar or makeup classes, examinations, study or work requirements shall be made available on other days, where it is possible and practicable to do so. No special fees shall be charged to the student for these classes, examinations, study 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 availing himself of the provisions of this section.
6. Any student, who is aggrieved by the alleged failure of any faculty or administrative officials to comply in good faith with the provisions of this section, shall be entitled to maintain an action or proceeding in the supreme court of the county in which such institution of higher education is located for the enforcement of his rights under this section.

D. Student Folders: Family Educational Rights and Privacy Act of 1974 (Buckley Amendment)

Student access to their own folders is governed by the Family Educational Rights and Privacy Act of 1974 (Buckley Amendment). This law gives students the right to inspect their educational records within 45 days of the students' request to do so. An educational record is defined as records, files, documents and other materials which contain information directly related to a student, and are maintained by a college or a person acting for the college. However, certain materials are not open for inspection. These include financial information furnished by the student's parents, and confidential letters of evaluation which were placed in the records before Jan. 1, 1975. The student can waive his right of access to letters received after Jan. 1, 1975, if the letters are concerned with admission, employment or honors, and if the student is told on his report the names of all letter writers.

Students also do not have access to records made by teachers and administrators for their own use and not shown to others, employment records for college employees who are not also current students, and records created or maintained by a physician, psychiatrist, psychologist, or other recognized professional or paraprofessional acting or assisting in such capacity for treatment purposes, and which are available only to persons providing such treatment.

In sum, a student may request to see his educational record, and the institution must respond within 45 days. A student can challenge the contents of his educational record, and

secure the correction of inaccurate or misleading entries. A student can challenge a grade only on the grounds that it was inaccurately recorded, not that it was lower than the instructor ought to have awarded.

E. Section 504: Rehabilitation Act of 1973

York College of The City University of New York is also committed to Section 504 of the Rehabilitation Act of 1973 (P.L. 93-112) which prohibits discrimination toward the handicapped, in the areas of both admission and employment, as well as access to programs or activities, in federally assisted education programs. Counseling Center, Telephone: (718) 262-2272.

COMPLAINT PROCEDURES:

1. Any student who wishes to file a complaint regarding alleged discrimination based upon a handicap shall make such complaint in writing to the Coordinator, Room 1G02. The Committee works in conjunction with the Office of Student Development/ Counseling, Room 1G02.
2. Upon receipt of the complaint, the Coordinator will
 - a. investigate the circumstances of the complaint
 - b. consult with the designee of the Office of Student Development/Counseling
 - c. within 14 calendar days after receipt of the complaint, render a decision and notify the student in writing of the decision.
3. The Complainant will have seven calendar days to notify the 504 Coordinator in writing of his/her acceptance of or disagreement with the decision. Failure of the Complainant to respond will be considered an acceptance of the decision.

F. The Americans with Disabilities Act of 1990

York College of The City of New York is also committed to the Americans with Disabilities Act of 1990 which extends federal civil rights protection in several areas to people who are considered disabled. The act seeks to dispel stereotypes and assumptions about disabilities, and to assure equality of opportunity, full participation, independent living and economic self-sufficiency for disabled people. To achieve these objectives, the law prohibits covered entities from excluding people from jobs, services, activities or benefits based on disability.

Not every disabled person is covered by the ADA. Certain standards must be met for a person to qualify for the act's protections. To be considered "disabled" under ADA, a person must have a condition that impairs a major life activity or a history of such a condition, or be regarded as having such a condition. A disabled person must also be qualified for the job, program or activity to which he or she seeks access. To be qualified under the ADA, a disabled person must be able to

perform the essential functions of a job or meet the essential eligibility requirements of the program or benefits, with or without an accommodation to his or her condition.

Any person who has a question about their rights under ADA should contact: Counseling & Career Services, (718) 262-2272, Room 1G02.

G. Title IX

York College of The City University of New York is also committed to Title IX of the Education Amendments of 1972, Public Law 92-318 which prohibits sex discrimination in federally assisted education programs. This law directly addresses the issue of sexual discrimination. It states in part:

"No person in the United States shall, on the basis of sex, be excluded from participation in, or be denied the benefits of, or be subjected to discrimination under any educational program of activity receiving federal financial assistance"

GRIEVANCES

Title IX grievance procedures have been established by York College to provide for the resolution of student and employees complaints in relation to Title IX regulations. These procedures are provided in addition to other, more formal union, college committee and governmental grievance mechanisms available to faculty, staff and students. Grievants are not required by Federal regulations to use internal grievance procedures. Utilization of York College grievance procedures is not a prerequisite for federal action through the Office of Civil Rights.

Student and Employee Complaint Filed under Title IX of the Higher Education Amendments of 1972

A student or employee who has reason to believe that the College has failed to act in accordance with the provisions of Title IX may file an informal complaint. This complaint may be submitted in writing or presented orally to the College Coordinator, Prof. Gloria Waldman. The Title IX Coordinator will then make suitable effort to resolve the issue. The Coordinator shall be responsible for keeping a record of all complaints filed and all materials used in the report preparation for a minimum of three (3) years and for its dispositions thereof.

Formal Procedure for Handling Grievance

1. Complaints of sex discrimination are to be submitted in writing to the Coordinator of Title IX within thirty (30) working days after the employee or student became aware of the action complained of, or within thirty (30) working days of a failure to resolve the complaint at the informal level. The grievance must set forth the nature of the complaint, the evidence on which it is based and the redress being sought. Within ten (10) working days an interview will be held with the aggrieved and the Title IX Coordinator.
2. Written reports of the complaint, and interviews will be submitted by the Title IX Coordinator to the Affirmative Action Officer and the President.

3. A fact-finding review will be conducted by Title IX committee member. Such review may involve additional interviews with parties involved, review of materials, and consultation with human resources who might provide additional information.
4. A Title IX committee report, with recommendation for resolution, will be submitted to the aggrieved, the Affirmative Action Officer and to the President.

The Title IX Coordinator shall be responsible for keeping a record of all complaints filed and all materials used in the report preparation for a minimum of three (3) years and for its dispositions thereof.

SUBMISSION OF ASSURANCES

As required by law, York College has submitted assurance of compliance with the Title IX of the Civil Rights Acts of 1964, Section 504 of the Rehabilitation Act of 1973, Title IX of the Education Amendments of 1982 and the Age Discrimination Act of 1975.

Any person who has a question about their rights under Title IX should contact Olga Dais, Esq., Office of Compliance and Legal Affairs, Room 2H01D, 262-2140.

H. Policy Against Sexual Harassment

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 laws, 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 quid pro quo harassment) include, but are not limited to, the following:

- requesting or demanding sexual favors in exchange for employment or academic opportunities (such as hiring, promotions, 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 opportunity, 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 state-

ments, or other verbal abuse;

- 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 letters or other written materials;
- sexual touching, brushing up against another in a sexual manner, graphic or 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 a 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.

Sexual Harassment Panel

Arleen Schreiner, Coordinator
Olga Dais, Co-Coordinator
Ching See Chan
Farley Mawyer
Facia White (Queens E.O.C.)

Sexual Harassment Education Committee

Linda Grasso, Chair
Laura Fishman
Caroline Campbell
Charles Coleman
Majorie Dunbar
Tyrone Forte
Dana Fusco
Celia Galashaw
Lisa Halstead
Jean Phelps
Randy Punter
Facia White (Queens E.O.C.)

I. Resolution in Regard to the Maintenance of Public Order

The resolution for the maintenance of public order on campuses of The City University, adopted on June 23, 1969 (Cal. No. 3b), by the Board of Higher Education, pursuant to the mandate of Chapter 191 of the Laws of 1969 is as follows:

RESOLVED, That the Board of Higher Education in compliance with Chapter 191 of the Laws of 1969, hereby adopt the following rules and regulations for the maintenance of public order on college campuses and other college property used for educational purposes.

RULES AND REGULATIONS FOR THE MAINTENANCE OF PUBLIC ORDER PURSUANT TO ARTICLE 129A 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 freedoms: 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. The president, with respect to this educational unit, shall:

- a. Have the affirmative responsibility of conserving and enhancing the educational standards of the college and schools under his/her jurisdiction.
- b. Be the advisor and executive agent to the Board and of his/her respective College Committee and as such shall have the immediate supervision with full discretionary 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.
- c. Exercise general superintendence over the concerns, officers, employees and students of his/her educational unit.

I. 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/she interfere with the institution's educational process 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.
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/her 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 action reasonably likely to provoke or encourage physical violence by demonstrators, 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/her possession a rifle, shotgun or firearm or knowingly have in his/her 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/her 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 initiation into or affiliation with any organization is prohibited.

II. PENALTIES

1. Any student engaging in any manner in conduct prohibited under substantive Rules 1-9 shall be subject to the following range of sanctions as hereafter defined in the attached

York College Facilities

- | | |
|----------------|--|
| 1. (AC) | Academic Core Building
94-20 Guy R. Brewer Boulevard
(Office of Admissions, Rm. 1B07) |
| 2. (AT) | Performing Arts Center
94-45 Guy R. Brewer Boulevard |
| 3. (HP) | Health and Physical Education Building
160-02 Liberty Avenue |
| 4. (SC) | Science Building
94-50 159th Street |
| 5. (CL) | Classroom Building
94-43 159th Street |
| 6. | Athletic Fields
95-50 160th Street |
| 7. | FDA Regional Office and Field Laboratory
158-15 Liberty Avenue |
| 8. | East Parking Lot–
Guy R. Brewer Boulevard |
| 9. | Site of future Student Counseling Services Building |
| 10. | St. Monica's Church
Site of future York College Child Care Center
94-20 160th Street |

Public Transportation

- | | |
|-----------|---|
| A. | Jamaica Center Subway Station–
"E", "J", "Z" Trains |
| B. | Jamaica Center Bus Terminal |
| C. | Jamaica Station LIRR
8 blocks west at Sutphin Boulevard |
-

Travel Directions to York College

Transportation facilities for reaching York College's main location at 94-20 Guy R. Brewer Blvd. are as follows:

BROOKLYN

Subway: BMT "J" or "Z" train to Jamaica Center (Parsons/Archer).

- Bus:*
- Q-8 Euclid & Pitkin Aves. to Archer Ave. & Guy R. Brewer Blvd.
 - Q-24 Atlantic Ave. to Parsons Blvd. & Jamaica Ave.
 - Q-54 Metropolitan Ave to Guy R. Brewer Blvd. & Jamaica Ave.
 - Q-56 Jamaica Ave. to Guy R. Brewer Blvd.

MANHATTAN, BRONX & STATEN ISLAND

Subway: IND "E" train to Jamaica Center (Parsons/Archer).

- Bus:* Q-44 Bronx to Jamaica Ave. & Guy R. Brewer Blvd.

THE ROCKAWAYS

Subway: IND "A" or "C" to Broadway-East N.Y.; change for BMT "J" or "Z" train to Jamaica Center (Parsons/Archer).

- Bus:*
- Q-112 Liberty Ave. to 160th Street & Archer Ave.
 - Q-113 Far Rockaway to Guy R. Brewer Blvd. & Liberty Ave.

QUEENS

Subway: BMT "J" or "Z" train to Jamaica Center (Parsons/Archer).
IND "E" trains to Jamaica Center (Parsons/Archer).

- Bus:*
- Q-4 Hillside Ave. to Archer Ave. & Parsons Blvd.
 - Q-5 Merrick Blvd. to Archer Ave. & Parsons Blvd.
 - Q-6 Farmers & Rockaway Blvds. to Archer & Guy R. Brewer Blvd. (East).
 - Q-6 Farmers & Rockaway Blvds. to Jamaica Ave. & Guy R. Brewer Blvd. (West).
 - Q-9 131st St. & Rockaway Blvd. to Jamaica Ave. & Guy R. Brewer Blvd.
 - Q-17 Flushing-Jamaica to Merrick Blvd. & Archer Ave.
 - Q-25/34 Flushing-Jamaica to Parsons Blvd. & Jamaica Ave.
 - Q-30 Little Neck to Archer Ave. & Merrick Blvd.
 - Q-31 Bayside-Jamaica to Archer Ave. & Merrick Blvd.
 - Q-41 Lindenwood Village to Jamaica Ave. & Guy R. Brewer Blvd.
 - Q-42 Hillside Ave. to Archer Ave. & Parsons Blvd.
 - Q-43 Hillside Ave. to Hillside Ave. & Parsons Blvd.
 - Q-65 Flushing-Jamaica to Parsons Blvd. & Jamaica Ave.
 - Q-83 114th Ave. to Archer Ave. & Parsons Blvd.
 - Q-83 Springfield Blvd. to Archer Ave. & Parsons Blvd.
 - Q-84 Hillside Ave. to Archer Ave. & Parsons Blvd.
 - Q-85 243 St./Huxley St. to Archer Ave. & Parsons Blvd.
 - Q-111 Rochdale Village to Guy R. Brewer Blvd. & Liberty Ave.

LONG ISLAND

LIRR To Jamaica — Jamaica Station & Archer Ave.

Automobile

From Eastern Long Island: Van Wyck Expressway (North) to "Liberty Ave." exit. Right on Liberty Ave. to Guy R. Brewer Blvd.

Grand Central Parkway (West) to "168th St." exit; Take service road to Parsons Blvd. Make left onto Parsons Blvd.; left onto Jamaica Ave., then right at Guy R. Brewer Blvd.

From Manhattan and points North: Van Wyck Expressway (South) to "Liberty Ave." exit. Left on Liberty Ave. to Guy R. Brewer Blvd. (See above.)

Grand Central Parkway (East) to "Parsons Blvd." exit. Take service road to Parsons Blvd. Make right onto Parsons Blvd.; left onto Jamaica Ave., then right at Guy R. Brewer Blvd.

Hours of Operation

College facilities have designated hours of operation for reasons of security and fire safety as well as to control costs of light, heat, ventilation, air-conditioning and cleaning. College policy is for facilities to be closed after the end of official programs, i.e. classes, library and special events.

1. Hours of operation of all college buildings

a. When classes are in session: Fall and Spring Semesters

Monday to Thursday ..	7 a.m. to one hour past end of last class
Friday	7 a.m. to 6 p.m.
Saturday	7 a.m. to one hour past end of last class
Sunday when library is open	9 a.m. to 6 p.m.
	(ACADEMIC CORE ONLY)
Other Sundays, Holidays	College is closed

b. When classes are in session: Summer Session

Monday to Thursday	7 a.m. to one hour past end of last class
Friday, Saturday, Sunday, Holidays	College is closed
<i>After completion of Summer Session:</i>	
Monday to Thursday	7 a.m. to 6 p.m.
Friday, Saturday, Sunday, Holidays	College is closed

c. When classes are not in session:

<i>Winter break, intersession and spring break</i>	
Monday to Friday	8 a.m. to 6 p.m.
Saturday, Sunday, Holidays	College is closed

d. Extra curricular events: Concerts, dances, athletic events and all other special events. Buildings in which events take place close one hour after the scheduled end of the event.

2. Parking Facilities Schedule

a. When classes are in session: Fall and Spring Semester

Monday to Thursday	East Field6:30 a.m. to 11:30 p.m. West Field.....7:00 a.m. to 11:30 p.m.
Friday	East Field6:30 a.m. to 6:30 p.m. West Field7:00 a.m. to 6:30 p.m.
Saturday	East Field7:00 a.m. to 6:30 p.m. West FieldClosed
Sunday and Holidays	Closed unless otherwise scheduled.

b. When classes are in session: Summer Session

Monday to Thursday	East Field6:30 a.m. to one hour past end of last class East Field6:30 a.m. to one hour past end of last class
Friday, Saturday, Sunday, Holidays	Closed unless otherwise scheduled.

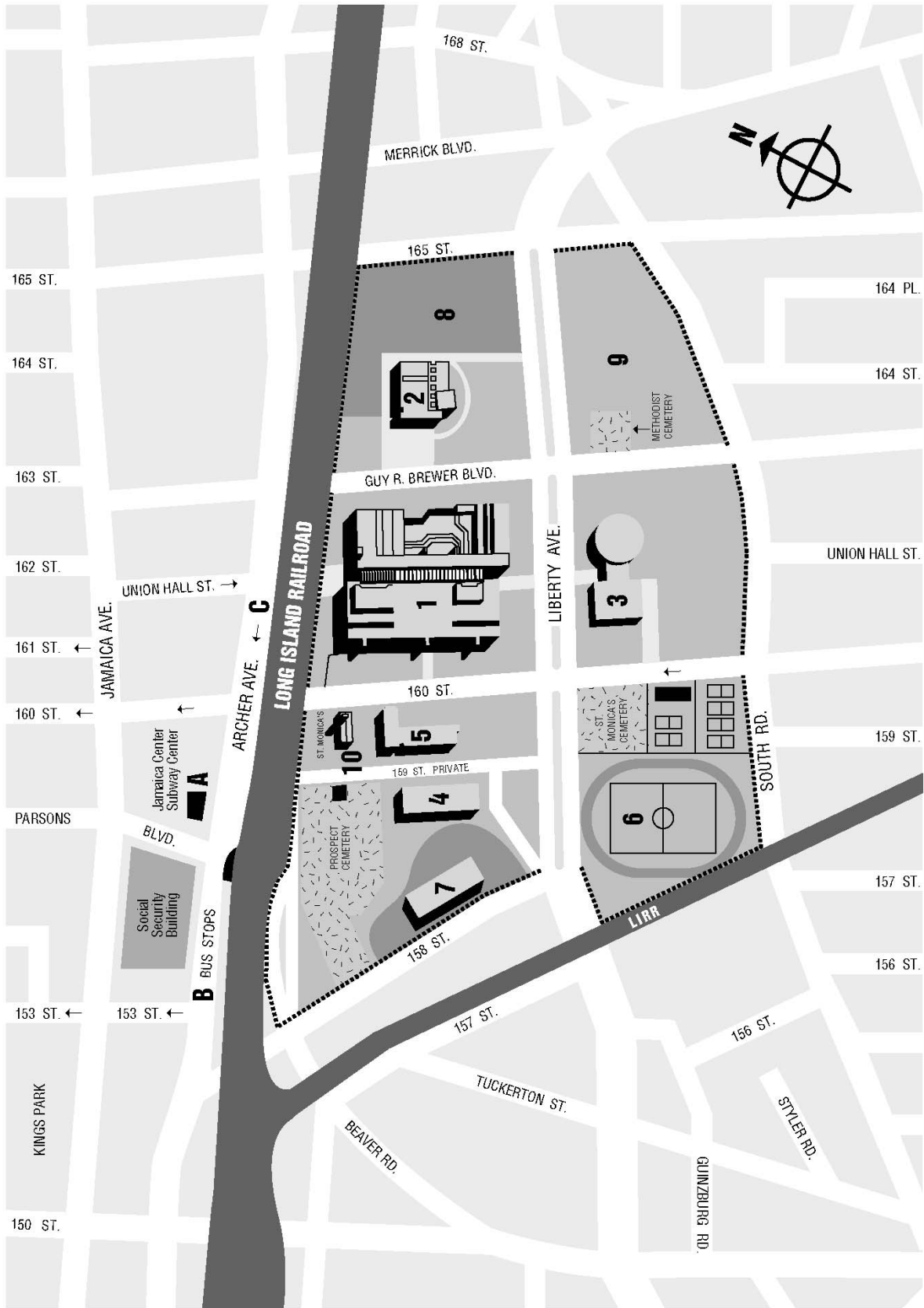
3. Scheduling of College facilities

- a.** Use of facilities for instructional programs is scheduled through the Registrar's Office.
-
- b.** Use of facilities for non-instructional programs is scheduled through the Office of Campus Planning and Operations. Any use of facilities outside of the normal hours of operation must be scheduled through the Office of Campus Planning and Operations. Every such request will be carefully reviewed with respect to the appropriateness of the program and the facilities-related costs attendant to opening facilities for the program.
-

4. Access to College facilities

Access to facilities between 12 a.m. (midnight) and 6 a.m., and remaining in the facilities overnight is prohibited. College staff who must have access between 12 a.m. and 6 a.m., or other times outside of normal hours of operation, are required to telephone security in advance and enter and sign-in at the Liberty Avenue entrance to the Academic Core.

It should be noted that during off hours, exterior gates and doors are secured, building ventilation, heating, cooling and lighting are greatly reduced and public facilities such as toilets are locked.



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