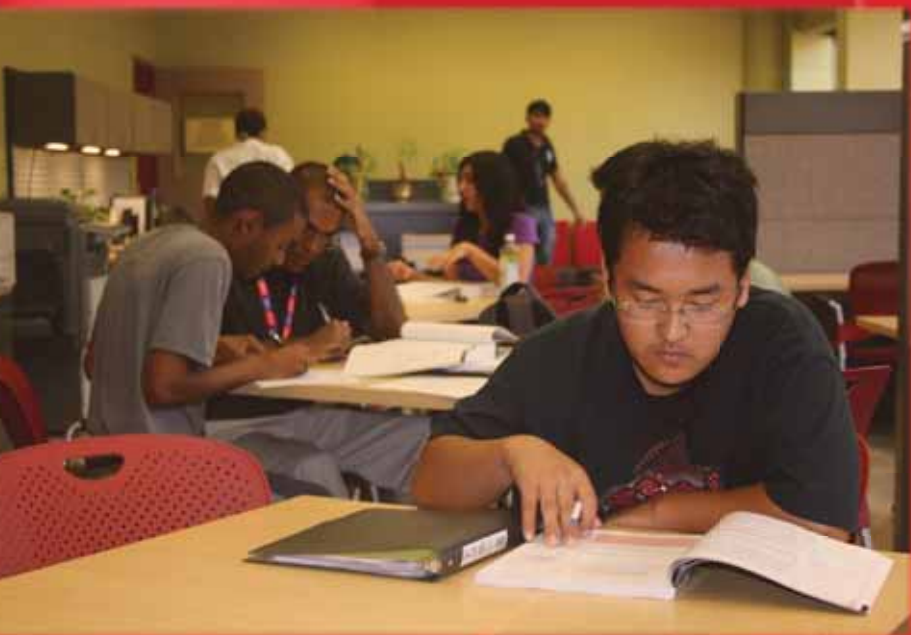


2009-2010

Bulletin



onthemove



YORK COLLEGE
The City University of New York

YORK COLLEGE

Senior College of the

The City University Of New York

Bulletin Number 39

II

Hours of Operation:

Monday To Friday

8:30 AM – 5:30 PM

(718) 262-2000

All Other Hours

(718) 262-2222

©1966-2009 York College, CUNY

94-20 Guy R. Brewer Boulevard
Jamaica, New York 11451

www.york.cuny.edu/about

Vision

York College is committed to academic excellence through teaching and learning, research and scholarship. It envisions service to a student body that 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 ideas of intellectual and personal growth by embodying them in human relations within the College.

Mission

As a senior college of The City University of New York (CUNY), 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 communities, the nation, and the world



The College offers baccalaureate degrees in liberal arts and sciences, and in a variety of professional programs such as accounting, business, computer sciences, 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 2009 Calendar

Dates	Event
Aug. 17, 2009 - Aug. 19, 2009	Freshman Orientation
Aug. 24, 2009 - Aug. 27, 2009	Registration
Aug. 27, 2009	Last day for 100% refund
Aug. 27, 2009	Last day for non-matriculated students to apply
Aug. 28, 2009	First day of classes
Aug. 28, 2009	Late Registration and Program Changes
Aug. 31, 2009 - Sep. 03, 2009	*Late Registration and Program Changes
Sep. 03, 2009	Last day for 75% refund
Sep. 07, 2009	Labor Day. College is closed
Sep. 10, 2009	*Last day for 50% refund
Sep. 12, 2009	Student Support Services Saturday office hours
Sep. 12, 2009	Yorkfest '09
Sep. 15, 2009	Fall Convocation
Sep. 17, 2009	Last day for "INC" grade changes due for the Spring 2009 and Summer 2009
Sep. 17, 2009	Last day for 25% refund
Sep. 17, 2009	Last day to file for May 2010 Graduation
Sep. 17, 2009	Last day to withdraw from a course(s) WITHOUT a "W" grade
Sep. 18, 2009 - Sep. 20, 2009	No classes scheduled
Oct. 10, 2009	Student Support Services Saturday office hours
Oct. 12, 2009	Columbus Day - College Closed
Oct. 14, 2009	Classes will follow a Monday schedule
Oct. 22, 2009 - Nov. 02, 2009	Midterm Assessment Period
Nov. 05, 2009	Last day for "INC" grade changes due to incomplete
Nov. 05, 2009	Last day to elect a Pass/Fail Option
Nov. 05, 2009	Last day to withdraw from a course(s) WITH a "W" grade
Nov. 14, 2009	Student Support Services Saturday office hours
Nov. 26, 2009 - Nov. 29, 2009	Thanksgiving Recess - College is closed
Nov. 30, 2009	Winter 2010 and Spring 2010 registration begins
Dec. 11, 2010	Last day to rescind a Pass/Fail Option
Dec. 13, 2009	Last day of classes
Dec. 14, 2009	Reading day/ Mass Final Examinations
Dec. 15, 2009 - Dec. 21, 2009	Final Examinations
Dec. 24, 2009 - Dec. 25, 2009	College is closed
Dec. 31, 2009	College Closed
Jan. 01, 2010	College Closed
Jan. 04, 2010	Last day for all grades, transcripts and documents for February 2010 Graduation

IV

**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 Winter 2010 Calendar

Dates	Event
Nov. 30, 2009	First Day of Registration
Dec. 16, 2009	Last Day of Winter Registration
Dec. 17, 2009	De-registration for non-payment for Winter Session.
Dec. 24, 2009 - Dec. 25, 2009	College is closed
Dec. 30, 2009	Last day for 100% refund.
Dec. 31, 2009	College Closed
Jan. 01, 2010	College Closed
Jan. 04, 2010	First day of classes
Jan. 04, 2010	Last day for 50% refund
Jan. 04, 2010	Late Registration and Program Changes
Jan. 05, 2010	*Last day for 25% refund
Jan. 06, 2010	Last day to withdraw from a course(s) WITHOUT a "W" grade
Jan. 15, 2010	*Last day to withdraw from a course(s) WITH a "W" grade
Jan. 18, 2010	College Closed
Jan. 21, 2010	Last day of classes
Jan. 21, 2010	Last day to rescind a Pass/Fail Option
Jan. 22, 2010	Final Examinations

V

**You may still be liable for tuition.*

COLLEGE FACILITIES - HOURS OF OPERATION

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Rev. 8/03

York College

Spring 2010 Calendar

Dates	Event
Jan. 13, 2010 - Jan. 14, 2010	Freshman Orientation
Jan. 18, 2010	College Closed
Jan. 21, 2010 - Jan. 22, 2010	Registration
Jan. 25, 2010 - Jan. 27, 2010	Registration
Jan. 27, 2010	Last day for non-matriculated students to apply for matriculation
Jan. 27, 2010	Last day to receive 100% refund
Jan. 28, 2010	First day of classes
Jan. 28, 2010 - Jan. 29, 2010	Late Registration and Program Changes
Feb. 01, 2010 - Feb. 03, 2010	Late Registration and Program Changes
Feb. 03, 2010	Last day to receive 75% refund
Feb. 10, 2010	Last day to add course(s) or switch sections of the same course
Feb. 10, 2010	Last day to receive 50% refund
Feb. 12, 2010	Lincoln's Birthday - College is closed
Feb. 13, 2010 - Feb. 14, 2010	No classes scheduled
Feb. 15, 2010	Presidents' Day - College is closed
Feb. 17, 2010	Last day for "INC" grade changes for Fall 2009
Feb. 17, 2010	Last day to file for September 2010 Graduation
Feb. 17, 2010	Last day to receive 25% refund
Feb. 17, 2010	Last day to withdraw from a course(s) WITHOUT a "W" grade
Feb. 18, 2010	Classes will follow a Monday schedule.
Feb. 20, 2010	Student Support Services Saturday office hours
Feb. 23, 2010	Spring 2010 Convocation
Mar 13, 2010	Student Support Services Saturday office hours
Mar 19, 2010 - Mar 25, 2010	Midterm Assessment Period.
Mar 25, 2010	Dean's List Reception
Mar 29, 2010 - Apr. 05, 2010	Spring Recess
Apr. 03, 2010	*Last day to withdraw from a course(s) WITH a "W" grade
Apr. 08, 2010 - Apr. 12, 2010	Midterm Assessment Period continues
Apr. 10, 2010	Saturday office hours for selected areas of Student Support Services
Apr. 13, 2010	Last day for "INC" grade changes for Fall 2009 to be received at the Office of the Registrar
Apr. 13, 2010	Last day to file for February 2011 Graduation
Apr. 13, 2010	Last day to elect a Pass/Fail Option
Apr. 26, 2010	Summer 2010 and Fall 2010 registration begins
May 17, 2010	Last day of classes
May 17, 2010	Last day to rescind a Pass/Fail Option
May 18, 2010 - May 24, 2010	Final Examinations
May 26, 2010	Final Examinations for mass exams only
May 31, 2010	Memorial Day - College is closed

VI

*You may still be liable for tuition.

COLLEGE FACILITIES - 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.

Welcome to York College

The College is organized into three Schools: the School of Arts & Sciences, the School of Business & Information Systems, and the School of Health & Behavioral Sciences. Each of the Schools focuses on a set of related programs and departments, and gives expression to the College's mission. The School of Arts & Sciences provides students with the opportunity to obtain an excellent education in the arts, humanities, mathematics, and the natural sciences. The School of Business & Information Systems introduces students to all of the fundamental business disciplines, then allows them a wide range of choices when selecting their major field of study. Finally, the School of Health & Behavioral Sciences provides a diverse student population with programs that have received national recognition and professional accreditation.

Through the three Schools, York College offers B.A. and B.S. degrees in over 44 different liberal arts, sciences, and professional majors, including English, History, Spanish, Music, Biology, Chemistry, Psychology, Journalism, Physician Assistant, Pharmaceutical Sciences, Nursing, Aviation Management, and Communications Technology, as well as the combined B.S./M.S. in Occupational Therapy. The College is distinguished not only for offering a variety of majors and minors in almost every discipline but also for bringing professional programs in business, accounting, information systems management, teacher education, generic nursing, social work and allied health sciences to traditionally underserved populations. York College also offers certificate programs in a variety of fields that include: mortgage finance; youth work; survey research; and Spanish for professional purposes.

In addition to the CUNY Aviation Institute, York College is home to the Northeast Regional U.S. Food and Drug Administration Headquarters (FDA). The College's approximately 7,100 students hail from more than 50 different countries of birth.

VIII

Approximately 40 percent of our students study part-time, and in Fall 2008 almost 700 new students were transfer students and over 1,000 were first-time freshmen. York College offers a variety of scholarships, both merit and retention, through the York College Foundation, Student Government Association and Auxiliary Enterprises, Inc.

With about 200 full-time faculty and some 250 part-time faculty, there is a student-to-faculty ratio of 16:1. Most full-time faculty hold terminal degrees in their disciplines and are also recipients of many national and regional awards, receiving grants from federal, state and local government agencies.

Organization and Governance

Faculty, students, and administrative staff participate in College governance, which is conducted according to procedures outlined in the bylaws of CUNY and in the York College Charter as approved by the Board of Trustees of CUNY. 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, the American Association of Colleges for Teacher Education, and the National Council for Accreditation of Teacher Education (NCATE). 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

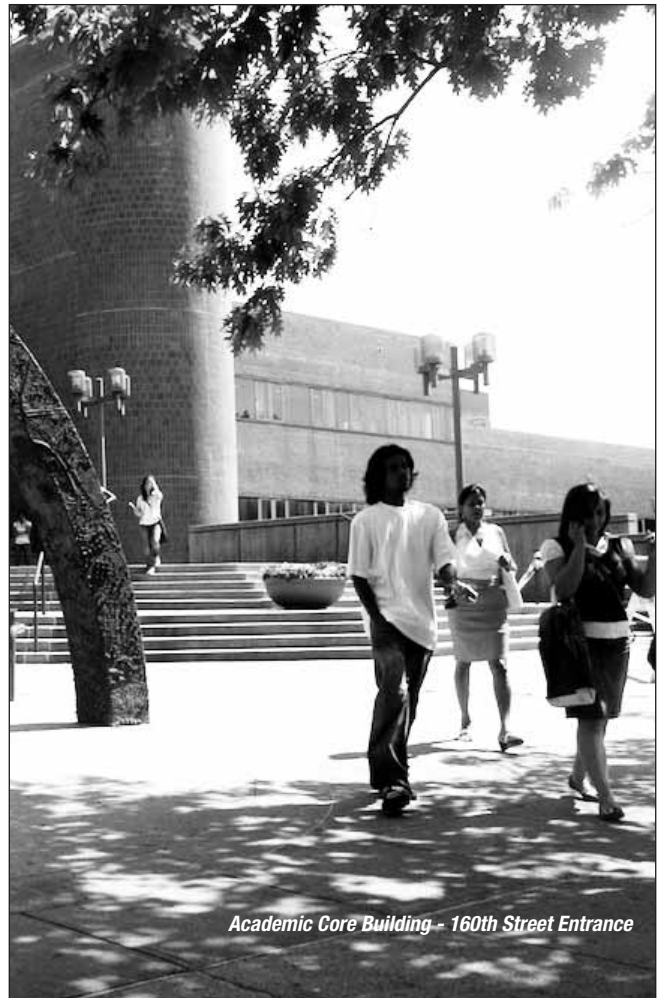
Certification Examination are passed. York's Occupational Therapy Program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA); York's Physician Assistant Studies Program is accredited by the Accreditation Review Commission on Education for the Physician Assistant, Inc.; 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.

Graduation Rate

Since 1971, York College has conferred more than 20,000 undergraduate and graduate degrees. York students progress toward 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.

Location and Facilities

At the heart of the 50 acre York College campus is the Academic Core, which houses classrooms, lecture halls, laboratories, art studios, the library, computer facilities, academic and administrative offices, as well as dining facilities and a bookstore. On adjacent super blocks are located the 1,500 seat Performing Arts Center, the Health and Physical Education facility, which includes a gymnasium and swimming pool, Classroom and Science Buildings, Athletic Fields and parking facilities.



Academic Core Building - 160th Street Entrance

Admissions

The Office of Admissions provides information about York College's educational offerings 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 presentations 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.

Applications for Admission

An application for freshman, transfer or international student admission to York College is readily available online at www.cuny.edu/apply. In addition, an application for non-degree status can be downloaded at www.york.cuny.edu/admissions/assets/nondegreeapp.pdf.

Questions concerning the admissions process can be directed to the York College Office of Admissions at (718) 262-2165 or admissions@york.cuny.edu

Freshman Admission

An applicant who is currently a senior in high school or has attained a GED diploma is considered a freshman. Freshman admission to York College is based upon the high school academic record and a minimum number of academic units or the GED score.

Freshmen are strongly encouraged to complete a series of academic courses in high school that will prepare them to succeed in college. The sequence should include courses in English, Mathematics, Laboratory Science, Social Science, Foreign Language and Fine Arts. Recent high school graduates (within one year of graduation) must show proof of SAT scores. More flexible admission is available through the SEEK Program.

Transfer Admission

Applicants who have attended college beyond completion of high school (or GED) are considered transfer or advanced standing students. An official transcript from each college attended and proof of high school graduation is required of all applicants. Candidates must demonstrate that they have earned a minimum of 12 credits, with a 2.0 grade point average in all prior coursework.

For those transferring with fewer than twelve credits, applicants must demonstrate a 2.0 grade point average, passing scores on the CUNY Skills Assessment Test or exemption and qualify based on the high school average, or GED score in effect for freshmen at the time of admission.

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.

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 Baccalaureate 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.

RN's Majoring in Comm. Health Ed.

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.

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Prior College Credits Evaluation

Transfer credits can only be evaluated for schools that are listed on the student's entry application. 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 department.

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.

International Student Admission

For the purposes of admission, an international student is defined as an applicant who currently holds a student (F-1) or exchange visitor (J-1) visa or seeks such visa status upon enrollment. In addition, a U.S. citizen or permanent resident that has been educated abroad also must file as an international student, whether using the CUNY Freshman or Transfer application.

Admission to York College is based upon the academic record and the Test of English as a Foreign Language (TOEFL) for those whose primary language is not English. In addition, all academic transcripts must be official and translated into English and applicants will be required to demonstrate an ability to pay tuition and fees at the time of registration.

Students with limited English language proficiency may wish to enter the CUNY Language Immersion Program (CLIP) at York, which allows students to build their English skills prior to enrolling in full credit-bearing courses. The program is housed in the Department of Foreign Languages and offers 25 hours a week of intensive instruction (see CLIP section of Bulletin).

For more information about the application process and admissions criteria for international students, please contact: The International Student Advisor York College 94-20 Guy R. Brewer Blvd. Jamaica, NY 11451 Telephone: (718) 262-2178 E-mail: intl@york.cuny.edu

Welcome Center

The Welcome Center is the central location where visitors and prospective students can get information, direction for services and individual attention. Experienced personnel familiar with the enrollment process staffs the Welcome Center. The Center's hours are: Monday through Thursday 8:00 am – 8:00 p.m., Friday 9:00 am – 5:00 p.m. and Saturday 9:00 am – 2:00 p.m..

Educational materials are available in the Welcome Center, free of charge, such as: GRE Preparation Booklets, York College Bulletins, Adult Continuing Education Courses and Registration Booklets, the Student Guide to Financial Aid, Freshman and Transfer Admission Applications, Schedule of Classes, CUNY Proficiency Exam (CPE) Information Pamphlets, Pandora's Box Student Newspaper, and additional resources. The Welcome Center is located in AC-Atrium. The telephone number is (718)262-2395, e-mail: Infodesk@york.cuny.edu

Special Admission Programs

The SEEK Program (Search for Education Elevation and Knowledge) is a higher education opportunity program offered at each of the senior colleges of CUNY. SEEK was created in 1966 when the New York State Legislature enacted a law that mandated the creation of programs providing access and support for New York City residents and to advance the cause of equality and educational opportunity at CUNY. Today the university maintains a commitment to admit students under the provisions of this law.

SEEK is an admissions alternative for students who are: (1) entering college for the first time, (2) in need of substantial financial assistance, and (3) residents of New York State for at least one year. Students are eligible for ten (10) semesters, plus two (2) summer sessions of financial assistance. Transfer students from College Discovery (CD), Higher Education Opportunity Programs (HEOP) or Educational Opportunity Programs (EOP) are admitted in both the Fall and Spring. Veterans with up to 18 credits earned during or prior to their military enlistment are also eligible for this program.

The mission of the SEEK Program is to serve students who are educationally under-prepared and economically disadvantaged by providing academic, counseling, and financial supportive services. Academic services include: required General Education courses designated for SEEK students only, SEEK counseling seminars, learning skills workshops, topic-specific tutorials, and small group and individual tutoring. Counseling services provide academic, career, and personal counseling services through individual or group workshops. All students are assigned a counselor upon entry into the program. Financial Aid services provide students with vital information concerning the timely completion of all necessary financial aid documentation.

These services assist students in achieving academic success by utilizing dynamic and innovative student-centered approaches to teaching and learning, and by providing supportive services. The SEEK Program is staffed by dedicated faculty and staff who are committed to ensuring that students acquire the skills and economic resources needed to successfully graduate from college. Students in the SEEK Program have successfully met the many challenges of academic rigor with distinction. They have added a positive dimension to York College through their involvement in student organizations and college governance committees, and have distinguished themselves with service awards and academic honors.

The program's offices are located in the C. corridor of the Academic Core Building. The main office is 1C08, and the telephone number is (718) 262-2300. Students may apply for the SEEK Program by filling out the "SEEK/College Discovery" section of the CUNY Freshmen Application, and by putting York College as their first choice. Students must be certified economically eligible for SEEK by the SEEK Financial Coordinator before they are officially accepted into the program. The coordinator is located in Student Financial Services Office in AC-1M08, and the telephone number is (718) 262-2230. To be certified and to receive any financial assistance from the program, students must file a Free Application for Federal Student Aid (FAFSA) and a TAP application. These forms are used to apply for the following types of financial aid: (1) PELL; (2) SEEK stipends, books and fees; (3) College Work Study; (4) Perkins Loans; and (5) Supplemental Educational Opportunity Grants.

Non-Degree Admission

An applicant 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. Applicants who have completed postsecondary work with a cumulative grade point average of 2.0 or higher, may file a non-degree application and submit Registrar issued copies of transcripts from all postsecondary institutions attended. If the cumulative grade point average falls below 2.0, the applicant will be reviewed on a case-by-case basis and will be required to submit "official" transcripts from all institutions attended. Under no circumstances will grade reports be accepted.

If an applicant has been academically dismissed from a CUNY college, s/he 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.

Freshmen may apply for non-degree status by submitting a copy of the high school transcript and proof of graduation or GED diploma. All non-degree applicants must take and pass the CUNY Assessment Tests or be otherwise exempt. Non-degree students are not eligible for financial aid or student loans and are billed at the non-degree tuition rate.

In addition to satisfying the requirements above, applicants educated abroad must submit educational documents with certified English translations.

Applications for matriculation to degree status are available in the Office of the Registrar. A student will be considered for matriculation after the completion of six credits with a minimum 2.5 grade point average and passing of all CUNY Assessment Tests (ACT). 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.

Second Degree Admission

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 Office of the Registrar for readmission and must complete a second degree application. All other baccalaureate holders file as a transfer applicant at www.cuny.edu/apply. 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 Writing 301, 302 or 303, except when such courses are required by their major or as prerequisite for other courses. Second baccalaureate degree students must still complete one Writing Intensive course in the upper division of the curriculum (at the 300 or 400 level) within the major discipline unless determined otherwise on an individual case by case basis.

Readmission

Students who have not been in attendance at York College for one or more semesters 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 non-refundable readmission fee of \$10. If the student has been in attendance at any college other than York, an official 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 at the time of their readmission. 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 (Room 1G05) immediately after they have readmitted or matriculated. There are orientations and reading groups to help first-time test takers.

Students who were dismissed at the end of their last semester in attendance at York College or returning students 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 non-refundable readmission fee of \$10. If the student has been in attendance at any college other than York, an official transcript of the student's record must be sent directly by the institution attended to Office of the Registrar, York College, Jamaica, NY 11451.

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 Sessions. Students are assigned a specific day and time on which to register.

Size of Program/Full Time Status

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.

Change/Withdrawal Procedures

During the first week of classes, a student may withdraw from one or more courses, add courses or change from one section to another section of the same course. During the second and third week, a student may only withdraw from a course or courses.

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 (although students may be liable for tuition), but there is an \$18 fee (and the possibility of additional tuition) 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 CUNY.

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:

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

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.

E-Permits

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 an e-permit to another college. A student who has completed 60 credits will not be granted an e-permit to a Community College. For all courses the student must have the permit application approved by the discipline coordinator and Registrar.

An e-permit will not be granted for more than one half of the student's semester credits, except in extraordinary circumstances. The e-permit is available on the CUNY Portal. NOTE: courses taken at other campuses will not have the same Writing Intensive designations as York College courses.

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 constitute the student's General Education Requirements, (with the exception: Physical 150) or 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 last day of classes (prior to final examinations).

This is done by completing an application and submitting it for approval to 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 D or better is passing, 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 - Status Changes

Applications for change of status for continuing students from nonresident to resident tuition rate are available in the Office of the Registrar, and can be filed until the end of the respective semester. All incoming students must apply for resident tuition rate through the Office of Admissions.

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 application with the Office of the Registrar. Students need to be aware that a change of major may have an effect on financial aid eligibility (see the section on Satisfactory Academic Progress).

Change of major applications must be submitted to the Office of the Registrar prior to the fourth week of the current semester.

Academic Standing & Classification of Students

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

D	Day Student
E	Evening/Weekend

2. Billing Codes:

A	Matriculated undergraduate students (enrolled after 9/1/89 but prior to 6/1/92)
B	Matriculated undergraduate students (enrolled after 6/1/92)
C	Student is not matriculated for a degree

Undergraduate (enrolled as first-time freshman or non-CUNY transfer students for semesters or sessions beginning on or after 6/1/92)

3. Admission Codes - identifies student admission status:

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

Code	Meaning
0	Non-degree
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:

Group #	Student Class / # Credits Completed
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

In courses which carry college credit (with the exceptions indicated) the student is assigned a final grade (unless the student has permission to take the course on a pass/fail basis). The table below indicates the index and the numerical values for assigning grades and computing grade point averages (GPA).

Grade	Numerical	Value
A+	4.00	97.0-100
A	4.00	93.0-96.9
A-	3.70	90.0-92.9
B+	3.30	87.0-89.9
B	3.00	83.0-86.9
B-	2.70	80.0-82.9
C+	2.30	77.0-79.9
C	2.00	73.0-76.9
C-	1.70	70-72.9
D+	1.30	67.0-69.9
D	1.00	60.0-66.9
F, FAB, FIN, WU, WF, WN	0.00	0-59
PEN- Grade Pending	-	-
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 C-, D+ and D grades are not considered a passing grade in certain programs. Please consult individual Major Program descriptions for details.

Failing Grades

Failing grades are F, FIN, WF, 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 Fall 2008, FAB grades would no longer be used according to the University Board of Trustees.

Effective September 1, 1990, in accordance with the resolution passed by the Board of Trustees of CUNY, 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 calculated 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.s 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

Effective Fall 2008 ABS and FAB grades have been removed from the grading glossary, except for the purpose of computing transcripts for students registered prior to Fall 2008.

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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 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.

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.

PEN Grade

This is a temporary grade assigned to a student and used to facilitate the implementation of the procedures for imposition of sanctions related to academic integrity.

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 non-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 colleges, 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/WN/WU Grade

In the case of a withdrawal from a course, three 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; WN signifying that a student never attended the course; 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 WN and WU count as failures.

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 grade 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. Necessary forms for appeals and denials of appeals can be found in the Academic Advisement Center.

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 (GPA)

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, WN, 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 for most majors. Please consult individual major program descriptions for details.

Example A: Sample Calculation of GPA

Grade Index	Credits	Multiplier	Quality Points Earned (QP)
A	4	4	16
B	3	3	9
C	3	2	6
D	3	1	3
F	2	0	0
WU	1	0	0
TOTAL	16		34 Points

16 Credits Divided Into 34 QP's = **2.125** GPA 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, A = +2, A- = +1.7, B+ = +1.3, B = +1, B- = +0.7, C+ = +0.3, C = 0, C- = -0.3, D+ = -0.7, D = -1, and F, WN, WU, FAB and FIN = -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 student 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.

Academic Standards

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 is 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.

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

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 2.00 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 2.00 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. Professional programs may have additional retention and progression requirements.

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 an 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, WN 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. Effective Fall 2008, ABS grade will no longer be used.

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 a minimum index of 3.25 for Cum Laude, 3.50 for Magna Cum Laude and 3.75 for Summa Cum Laude.

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 CUNY, regardless of the tuition and fee schedules in effect at the time of pre-registration.

Undergraduate Resident Students

Full-time	\$2,300.00 semester
Part-time	\$165/credit
Non-degree	\$285/credit

Undergraduate Non – Resident Students

Full-time	\$415/credit
Part-time	\$415/credit
Non-degree	\$610/credit
Graduate Resident Students	Full-time \$3680/semester
Graduate Resident Students	Part-time \$310/credit
Maintenance of Matriculation	\$150/semester

Graduate Non-Resident Students

Full-time	\$500/credit
Part-time	\$500/credit
Maintenance of Matriculation	\$1,250/semester

University Technology and Consolidation fees

\$90/Full-time	\$52.50/Part-time
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Senior citizen fee*

\$65/semester or session plus \$15 consolidated and tech fee.

Summer Session

Tuition is charged on a per credit basis for all courses taken. Summer Student Association Fee: \$ 10.85

Adult and Continuing Education

Tuition as indicated per course in a separate booklet on Adult and Continuing Education or by visiting their website at www.york.cuny.edu/conted..

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 \$15.00 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.

Residency 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. Lower Division – A student who has earned fewer than 61 credits

C. Upper Division — A student who has earned 61 or more credits as of registration. This includes students who have earned a baccalaureate degree.

D. Full-time* — A student who is enrolled for 12 or more credits or the equivalent.

E. Part-time**—A student who is enrolled for fewer than 12 credits or the equivalent.

Association and Consolidated Fee

The full-time association, University Student Government Fee, and consolidated fee of \$55.85 or the part-time association, University Student Government Fee, and consolidated fee of 35.85 will be added to the bill. The association, University Student Government Fee and consolidated fee for the summer session is \$25.85.

* 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 I.)

**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 I — 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
ESL 146	6
Math 184	5
ESL 150	8
Math 102	3

Important notice of possible changes: CUNY 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 with advance notice. Tuition and fees set forth in this publication are similarly subject to change by the Board of Trustees of CUNY. The University regrets any inconvenience this may cause.

Association, Consolidated, Technology & University Student Government Fees

Technology Fee: The full-time technology fee of \$75 or the part time fee of \$37.50 will be added to the bill. The technology fee for the summer session is \$37.50.

Status	Associated Fee
Full Time	\$40.00 Association Fee Plus
	\$15.00 Consolidated Fee Plus
	\$100.00 Technology Fee Plus
	\$0.85 University Gvt. Fee

Status	Associated Fee
<i>Total Per Semester</i>	<i>\$130.85</i>

Status	Associated Fee
Part-Time	\$20.00 Association Fee Plus
	\$15.00 Consolidated Fee Plus
	\$50.00 Technology Fee Plus
	\$0.85 University Gvt. Fee
<i>Total Per Semester</i>	<i>\$73.35</i>

The technology fee is non-refundable, however, if the following occurs, a refund will be granted:

- The College cancels a course or courses causing the student to drop below full-time;
- The student is incorrectly billed by the College;
- The student officially withdraws prior to the first day of the semester/session
- The College cancels a course or courses causing the student to drop below full-time;
- The student is incorrectly billed by the College;
- The student officially withdraws prior to the first day of the semester/session

Special Fees

Application Fee

- A. Freshman Application Fee - \$65.00
- B. Transfer Application Fee - \$70.00

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 and is not refundable.

2. Change of Program Fee— \$18.00

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 wishing 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.

The Change of Program Fee is waived when:

- A. The College cancels or withdraws a course, causing the student 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:

Excess Credit Fees	
18.5 to 20 credits	\$100.00
20.5 to 22 credits	\$230.00
22.5 to 24 credits	\$460.00
> Than 24 credits	\$690.00

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 — \$7.00

This fee will be waived for transcripts to units of CUNY. 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 \$7 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 \$25 for the first examination and \$5 for each additional examination.

Penalty Fees

1. Late Registration Fee — \$25.00

A charge of \$25 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.)

- General circulation books: \$.10 per book each day overdue
- Reserve items: \$ 1.20 per hour overdue
- Damaged and lost books: Fine to date reported if overdue, plus replacement cost (or Out-of-Print fee), plus processing cost of \$10.00
- Overdue videotape: \$ 2.00 per day per videotape
- Overdue laptops: \$ 0.50 per minute
- Non-Payment Service Fee — \$15.00

Students who are delinquent in 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. All subsequent payments must be made in cash, certified check or money order. 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 to the student. No portion of the Association fee, university student government fee, technology fee, consolidated fee, special fees, or penalty fees are 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.) Refund Schedule	FALL/ SPRING	SUMMER
Withdrawal before the opening date of the session scheduled	100%	100%
Withdrawal in order to register at another unit of The City University during that semester	100%	100%
Withdrawal within one week of the opening date of the session <i>(or its equivalent for the summer)</i>	75%	50%
Withdrawal during the second week after the scheduled opening date of the session <i>(or its equivalent for the summer)</i>	50%	25%
Withdrawal during the third week after the scheduled opening date of the session <i>(or its equivalent for the summer)</i>	25%	None
Withdrawal after the completion of the third week of the session <i>(or its equivalent for the summer)</i>	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. Federal and State guidelines for financial aid vary according to the specific type of aid the student is awarded. If a student is awarded financial aid and intends to change their enrollment status, they should contact Student Financial Services regarding their eligibility for financial aid funds.

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:

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%

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 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).

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 childcare expenses.

Developing A Student Budget

Following are the most recent CUNY guidelines used for establishing the total cost of education for financial aid purposes.

The amounts vary according to whether a student is living with parents or living away from home.

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.

Direct Educational Costs

Tuition and Fees for the 2009-2010 academic year, undergraduate students who attend any institution within CUNY will be charged according to the Tuition Fee Schedule. (Table 4.)

Table 4 — Tuition Fee Schedule

Undergraduate Resident Students

Full – time	\$2300/semester	Part – time
	\$195/credit	Non – degree
		\$285/credit

Undergraduate Non- Resident

Full- time	\$415/credit	Part- time
	\$415/credit	Non- degree
		\$610/credit

Graduate Resident Students

Full- time	\$3680/semester	Part- time
	\$310/credit	Maintenance of Matriculation
		\$150/semester

Graduate Non- Resident Students

Full- time	\$575/credit	Part- time
	\$575/credit	Maintenance of Matriculation
		\$250/semester

Books/Supplies

The average cost of books and supplies for an undergraduate student is \$1,070. (In some cases, an individual student's curriculum may require a somewhat higher or lower expenditure.)

Costs Related to College Attendance for Students Living with Parents

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 \$850. This amount is based upon the current \$2.25 fare.

For personal expenses and recreation, the amount allowed for the academic year is \$2754. This figure includes the allowance to be used for lunch at school.

Room and Board expenses include an allowance of \$1,500.

Living Costs for Students

Living Away from Home

If you are a single, independent student who commutes to college, you should expect to spend approximately \$7,425 for rent and utilities and \$2,957 for food (including lunch) for the nine-month academic year.

Public transportation for nine months is approximately \$850. This amount is based upon the current \$2.25 fare. Personal expenses for a single-person family during this period total approximately \$3,746.

Budget Adjustments

Child Care Students who have dependent children under 13 years of age will be eligible for a budget allowance of up to \$2,916 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 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 expected family contribution using a formula established by the U.S. Congress.

Your expected 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. When you file the FAFSA on the Web, 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 transferring to York should ensure that York College is listed on their application for federal and state aid. You can add the York College Federal Code (004759) at www.fafsa.ed.gov. York College TAP school code is 1418.

Students' state applications may be checked and updated at hesc.com.

Financial Aid: State Programs

State Programs

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 non-citizen.
- Be a legal resident of New York State Study full time (at least 12 credits per semester).*
- Have graduated from a U.S. high school, or have a GED, or has passed a federally-approved "Ability to Benefit" test as defined by the Commissioner of the State Education Department.
- 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
- 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.

Part-Time TAP (PTAP)

New York State Education Law was amended in 2006 to create a Part-Time Tuition Assistance Program for New York State students.

To be eligible for part-Time TAP, students must have been freshmen in the 2006-2007 academic year or thereafter, have earned 12 credits or more in each of two consecutive semesters, and maintain a "C." average.

Part-Time Tap allows for partial TAP payment for students taking 6-11 credits.

Eligibility Criteria

To be eligible for PTAP, a student must:

- Be a United States citizen or eligible noncitizen
- Be a legal resident of New York State
- Have graduated from high school in the United States, or earned a GED, or passed a federally approved "Ability to Benefit" test as defined by the Commissioner of the State Education Department
- Be matriculated in an approved program of study and be in good academic standing
- Be taking 6 but fewer than 12 credits per semester
- Not be in default on a student loan guaranteed by HESC or on any repayment of state awards
- Meet income eligibility limitations

Award Amounts

A PTAP award is calculated as a proportional fraction of a normal full-time TAP award based on the number of part-time credits a student is registered for.

Income Limits

(Refer to the income limits for TAP.)

Aid For Part-Time Study (APTS)

To be considered for an APTS award, students must meet the same eligibility requirements as the TAP program with one difference.

It is a part time program therefore you must be registered for at least 6 credits but less than 12, of which 3 must be non-remedial credits.

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.

State Satisfactory Academic Progress Guidelines

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:

- Students must accrue a specified number of credits. (Table 4.)
- Students must achieve a minimum level of performance as measured by cumulative grade point average (GPA). (Table 5.)

Table 4 — Program Pursuit Chart

TAP Payment Sought or Step #	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 (SEEK Only)	12 (At the end of the seventh payment)
9 (SEEK Only)	12 (At the end of the eighth payment)
10 (SEEK Only)	12 (At the end of the ninth payment)

Completed grades are A+,A, A-, B+, B, B-, C+, C, C-, D+, D, D-, F, P, FIN, INC, NC, PEN and R. **W, WF, WN or WU grades are not considered completed grades for TAP purposes.**

Please Note that APTS pursuit is based upon 3 credits = 100% and PTAP pursuit is based upon credits for which the students are enrolled.

Table 5 — Academic Progress Chart (Effective Fall 2006)

TAP Payment Sought or Step #	Min. Cum. Or Credits Earned thru Last Semester of Attendance	Min. Cum. GPA thru Last Semester of Attendance
1	0	0
2	3	1.10
3	9	1.20
4	21	1.30
5	33	2.00
6	45	2.00
7	60	2.00
8	75	2.00
9 (Seek only)	90	2.00
10 (Seek only)	105	2.00

*Cumulative credits mean total credits passed since beginning of student's college career (Grades A+, A, A-, B+, B, B-, C+, C, C-, D+, D). When resolved, INC will be reviewed for retroactive liability, if any. Please note that students who first received State aid prior to Fall 2006 have different Academic Progress requirements for the first five payments.

Maximum Eligibility

Undergraduate students enrolled in four year programs may receive up to four years of TAP assistance for full-time study; up to five years in the SEEK Program; Graduate students can receive up to four years of assistance; only three years if the student has already received five years of TAP as an undergraduate. Eligible students may receive no more than eight years of combined undergraduate/graduate assistance.

HESC monitors the usage of NYS awards by assigning payment points for each award a student receives: 6 points for a full-time semester payment; 3 points for a half-time accelerated study summer payment; and 3 points for an APTS payment. PTAP usage is measured as a proportional fraction of a full-time semester TAP payment.

Petitioning for a Waiver

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:

- Personal illness involving hospitalization or extended home confinement;
- Illness in immediate family requiring your absence from classes for an extended period;
- Emotionally disabling condition, which prevented you from attending classes;
- Change in working conditions of your job on which you and your family are dependent;
- 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 6 —Compensatory, Developmental & Remedial Courses

Courses	Financial Aid Hours	Courses	Equated Hours
ESL 145	6	2	6
ESL 150	8	2	8
Math 102	3	1	3
Math 184	5	4	5
NatSci 100	4	2	3

Financial Aid: 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 upon the information that you provide on the FAFSA, your Expected Family Contribution (EFC) number will be used to determine your eligibility for federal student aid.

If you claim to be an independent student, you may be asked to submit proof before receiving federal student aid. You are an independent student if you are one of the following:

- At least 24 years old by January 1 of the award year
- A married student
- A veteran of the Armed Forces of the United States
- A student with legal dependents other than a spouse
- An orphan and in foster care or ward of the court as of age 13 or older
- A graduate or professional student
- Currently serving on active duty in the U.S. Armed Forces for purposes other than training
- An emancipated minor as determined by your state of legal residence
- In legal guardianship as determined by your state of legal residence
- After July 1, 2008, you were determined to be an unaccompanied youth who is homeless, or were self-supporting and at risk of being homeless

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.

Federal Grant Programs

Federal Pell Grant

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

Award Schedule:

Currently awards range from \$976 to \$5,350 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. Awards depend on the level of student need and availability of funds.

Selection of Recipients and Allocation of Awards:

To be eligible, you must be:

- 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;
- 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.

Academic Competitiveness Grants (ACG)

ACG is a program in which students may receive up to \$750 for the first academic year of study and up to 1,300 for the second academic year of study.

Selection of Recipients and Allocation of Awards

To be eligible, you must be:

- A U.S. citizen or eligible noncitizen Federal Pell Grant recipient
- Enrolled in the first or second year of your program of study
- Have completed a rigorous secondary school program of the study and graduated after January 1, 2005
- Enrolled in your first undergraduate program, if a first -year student
- Have at least a cumulative 3.0 GPA for the first academic year, if a second-year student.

National Science and Mathematics Access to Retain Talent Grants (SMART)

SMART is a program in which students may receive up to \$4,000 for each of the third and fourth academic year of study.

Selection of Recipients and Allocation of Awards

To be eligible, you must be:

- A U.S. citizen or eligible non-citizen
- A Federal Pell Grant recipient
- Enrolled in a degree program

- Major in physical, life or computer science, engineering, mathematics, technology, or a critical foreign language (specific majors are specified by the Department of Education)
- Have a minimum cumulative 3.0 GPA in the coursework required for the student's major.

Federal Work Study Program (FWD)

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.

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 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 have completed applications on file while funding is available.

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 \$8.00 - 8.50. Off campus rates are determined by the nature of the job and the applicant's qualifications. The award ranges from \$900-\$2500 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 or online. The Entrance Interview is completed online. 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 a U.S. citizen or an eligible non-citizen;
- 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;
- Not be in default on a prior Federal student loan or owe a repayment on a PELL Grant or any Title IV Student Aid Program;
- 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.
- Meet satisfactory progress requirements including a minimum GPA of 2.0

Loan Schedule:

Undergraduate freshmen may borrow up to \$3,500, sophomores \$4,500, and juniors and seniors, \$5,500, per academic year up to a total of \$ 23,000 in subsidized loan.

The annual rate of interest for the Direct Loan varies with the treasury note: caps at 8.25% on loans disbursed prior to 7/01/06.

For loans disbursed on or after 7/01/09, the interest will be fixed at 6.0% for subsidized and 6.8% for un-subsidized.

You may be 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:

- During study under a graduate program approved by the U.S. Department of Education,
- During up to three years of active U.S. armed forces service,
- During up to three years as a full-time Peace Corps or Domestic Service volunteer or
- 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:

- Complete an Exit Interview, and
- 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 may start at \$50.

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 un-subsidized 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. It is based upon the cost of education.

Federal PLUS Loan

Parents of dependent students may apply for a PLUS loan. The annual amount of a PLUS loan is limited to the student'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. The promissory note is signed on line using the federal PIN.

Federal PLUS Loan for Graduates

Graduate or professional students are eligible to borrow up to their cost of attendance less other financial aid. The terms and conditions applicable to Parent PLUS Loans discussed above also apply to this loan.

Applicants must complete a FAFSA and have applied for their annual maximum loan eligibility under the federal Subsidized and Unsubsidized programs. Students may then obtain a PLUS loan application in Student Financial Services. The promissory note is signed online using the federal PIN.

Federal Perkins Loan Program (Formerly NDSL)

Application for the Perkins Loan is made through the FAFSA. Once awarded, an Entrance Interview is required online which includes the signing of the promissory note.

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 dropping below half-time enrollment and may extend over a period of up to 10 years. Cancellation, deferment and forbearance information is available from York College and online.

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 went 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 submitted the withdrawal form to the Registrar or (2) the midpoint of the semester if you withdraw without notifying 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, American embassies, and 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:

- Continue on active duty,
- Were released under conditions other than dishonorable, or
- 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 3 Years Or More G.I. Bill

Full-Time	\$1004
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Three-quarters	\$753
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Half-Time	\$502
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Status Less Than 3 Years G.I. Bill

Full-Time	\$816
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Three-quarters	\$612
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Half-Time	\$408
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Status Reservist

Full-Time	\$288
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Three-quarters	\$216
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Half-Time	\$143
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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, or the Admissions Office, Room 1B07. In addition to external scholarships, York College offers several competitive Scholars Programs which include a stipend as part of their benefits.

Satisfactory Academic Progress:

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 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.

Undergraduate Students

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:

- Attempted credits are not more than 150% of the credits normally required for completion of the degree. Accumulated credits are equal to or greater than two-thirds of the cumulative credits attempted at the institution. 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).

Graduate Students

In order to be making satisfactory academic progress toward a degree, for purposes of receipt of Title IV Federal Assistance, a graduate student must meet at least the GPA required for good academic standing at the institution and:

A. Accumulate credits toward the degree greater than or equal to two-thirds the cumulative credits attempted at the institution.

B. Not have attempted more than 150% of the credits normally required for completion of the degree. 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 petition to the Petition 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 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.

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.

Student Resources

Division of Student Development

The mission of the Division of 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 Student Development accomplishes its mission by:

- Assisting student's successful transition to college;
- Creating opportunities for students to expand their aesthetic and cultural appreciation;
- Instructing students on how to mediate individual and group conflicts;
- Providing services for students with various health, disabling and/or learning difficulties;
- Helping students understand and appreciate racial, ethnic, gender and other differences;
- Designing opportunities for leadership development;
- Establishing programs that encourage healthy living and confront abusive behaviors;
- Providing opportunities for recreation and leisure-time activities;
- Helping students clarify career objectives, explore options for further study, and secure employment;
- Assessing the educational and social experiences of students to improve institutional programs;
- Establishing policies and programs that contribute to a safe and secure campus;
- Supporting and advancing institutional values by enforcing the university's behavioral standards for students;
- Advocating student participation in institutional governance;
- Serving as a resource to the faculty in their work with individual students and student groups;
- Encouraging faculty-student interaction in programs and activities;
- Assuming leadership for the institution's response to student crises; and
- Coordinating student development programs and services with academic affairs, administrative affairs, institutional advancement and other major components of the institution.

Office Of Counseling

The Counseling Center is committed to providing a broad range of high quality, innovative, and ethical services that address the psychological, educational, social, and developmental needs of YORK students.

The Counseling Office assists students in their educational endeavors by helping them to identify short and long term goals and objectives, promoting self-awareness, and encouraging a collaborative and empathic approach within York's rich and abundant multi-cultural community. Faculty in this office are trained in the behavioral sciences and specialize in psychology, counselor education, substance and alcohol abuse, and social work. Listed below are the services provided.

Academic Advisement: Freshman And Transfer Students

All freshman and transfer students entering York College with 27.5 credits or less are seen for academic advisement in the counseling department. The Academic Advisement Program provides opportunities for personal dialogue between the faculty and each individual student.

Within the scope of this program of intensive and frequent advisement, basic curricula are adapted to meet the needs and objectives of each student.

Advisors also assist in helping student's identify their short and long term academic and educational goals for optimal success.

Academic Performance: Grades And Probation

Any student who is having difficulty with classes and/or has been placed on academic probation MUST be seen by a trained professional in the counseling department.

If an academic block is placed on your account, students are urged to seek advisement as soon as possible. Trained counselors within the counseling department are authorized to lift academic blocks.

Alcohol And Drug Prevention Counseling

Our trained staff can provide answers to your questions, referral information, and resources to accurate, useful, and trustworthy information. If you, or anyone that you know, has a problem with alcohol and/or drugs, please stop in to see us. We are here to help.

Career Counseling

Available to all students' interested and/or requiring help in: choosing a major, changing a major, and/or obtaining occupational information in fields and professions of interest. Stop by to see our library of occupational resources and guides.

Crisis Counseling

York College maintains on-site counseling services for students facing a critical problem requiring immediate attention. With a specialization in crisis counseling, trauma, and intervention, clinicians are trained in evidence-based methodologies to address your immediate concerns.

Recommendations for referrals and other resources are also available as an adjunct to crisis counseling services.

Graduate School

A Graduate School Fair is hosted at York College during each Fall semester.

If you need help in choosing a graduate school to further your education, stop by and ask to see a career counselor in the counseling department.

Individual Counseling

York College offers free psychological, short-term, individual counseling to all students having difficulty in coping with personal and/or academic concerns.

Referral information and guides for additional resources are available.

Veterans Affairs

The York College Office of Veterans Affairs (OVA) was created within the Division of Student Development to address the needs of our loyal veterans.

The Office for Veteran Services addresses special concerns, such as eligibility requirements, tutorial assistance, and academic credit for military experience, in addition to providing a range of other services, some of which include:

- Processing of the Educational Benefit Application
- Processing the Application Request for Change of Program or Place of Training
- Processing the Application for Survivors and Dependents
- Certifying Enrollment in the Survivors and Dependents Program Each Semester
- Interacting with all Departments and Offices at the College to Protect Veterans' Rights
- Ensure Appropriate Services are Provided

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

To Qualify For: Full-time benefits You Must Carry: at least 12 credits

3/4-time benefits You Must Carry: at least 9 credits

You Must Carry: 1/2-time benefits at least 6 credits

For Matriculating Veterans (who have completed 12 credits at York College)

- 4-8 free elective credits will be granted for one year or more of active military service;
- 4 free elective credits will be granted for less than one year but more than six months of active military service;
- If you carry a program of 5 credits or less per semester, you will not be eligible for benefits other than tuition fees.

Please Note:

- There is no automatic waiver of the Physical Education Instrumental course requirement (Physical Education 150) for student veterans. Students who wish to receive a waiver must present evidence of proficiency to the chairperson of the Department of Health and Physical Education.
- The Office for Veteran Affairs at York College is responsible to inform the Department of Veterans Affairs when a veteran has been dismissed from college for poor academic performance and/or for not making satisfactory academic progress.
- The OVA at York College serves as a liaison between the student and Regional Offices in Buffalo and New York City.
- A veterans' counselor is available full-time and is available both days and evenings in the Counseling Center – Room 1G02.

Workshops

Workshops are available to help you succeed and improve your overall grade point average (GPA).

Please see a counselor for scheduled workshops on stress management, study skills, test-taking strategies, and more.

Students With Special Needs

Adaptive Technology Center

Located in the Library (Room #3H05, Telephone: 718-262-1950) and managed by York Enrichment Services (YES), York's Adaptive Technology Center serves all students with disabilities.

The Center contains computers with high speed Internet access and assistive software programs to aid in student learning.

These programs include "Zoom Text", which enlarges and reads the screen; "Naturally Speaking", a voice recognition program that types as you speak; "Jaws", which reads all text displayed on the screen; and "Kurzweil 3000", a scan and read program.

The closed circuit televisions (CCTV) increase print size and change background color. The Center's copier enlarges materials up to 200% greater than the original.

In addition, students can borrow equipment such as a tape recorder to enhance their learning experience.

Office Of Services For Students With Disabilities (OSD)

The Office of Service for Students with Disabilities is a sub-division of the Counseling Center within the Division of Student Development. Located in Room 1G02, OSD provides a wealth of support and services for students with a documented disability.

Accommodations such as: extended testing time, large print text, use of a tape recorder, closed-caption television, reader and/or note takers, adjustable tables, and computers with adaptive technology are just some of the services provided for by OSD.

To better ascertain if you are eligible for any of these services, stop by and ask to speak with a disabilities specialist.

CUNY L.E.A.D.S. (Linking Employment, Academics, Disabilities and Services)

The mission of the CUNY L.E.A.D.S. program is to link a disabled student's academic accomplishments with his/her professional endeavors via career counseling, job coaching, internship assistance, and more.

CUNY L.E.A.D.S., in partnership with VESID, aims to facilitate successful academic and career outcomes for CUNY students with disabilities.

YORK'S CUNY L.E.A.D.S. counselor is located in the Counseling Department in Room 1G02. Stop by for additional information.

York Enrichment Services (YES)

YES works with OSD to provide needed services to special-needs students. While OSD provides reasonable accommodations, YES offers enhanced academic support services, such as free one-to-one tutoring, personal, academic, and career counseling, learning through adaptive technology, textbook loan program, computerized career exploration and guidance, study skills workshops, mentoring, referrals, and coordination of related services. YES is located within the Counseling Office, Room 1G02, Telephone: (718) 262-2274.

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-understanding of their abilities, interests, values and goals.

In addition, students are taught how to research careers and to develop the skills necessary to launch an effective 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:

- Career counseling
- Career development courses
- Personal interests, skills, and value inventory
- Inclusion in national databases for internships, summer jobs, part-time jobs, full-time jobs and career opportunities
- Workshops on resume writing, interviewing skills and job search techniques and business etiquette
- Seminars on discipline related career opportunities
- Career and 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 www.york.cuny.edu/career

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:

- Individualized or small-group tutoring in most academic subjects;
- Confidential personal counseling;

- Computer and Internet skills training;
- Academic advisement and assistance in course selection; Assistance with financial aid applications;
- College success skills workshops;
- Freshman orientation and mentoring;
- Computerized career exploration and guidance;
- Textbook 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.

Emergency and first aid treatment are rendered to the sick and injured; counseling and educational literatures 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, and a signed response form for meningitis. The latter form can be secured from the Health Services Center. 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

A variety of groups—academic, social, athletic, cultural, 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 on 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 Activities is also responsible for the advisement of Student Government and the oversight of the college's communication groups. The office is located in the Academic Core Building in Room 1E01.

Additionally, the college is actively engaged in supporting and seeking scholarship opportunities for incoming freshmen and continuing enrolled students.

The Office of Student Activities researches, promotes and disperses information about various scholarship endeavors which allow students to attend classes while simultaneously reducing their financial obligation to the college.

Student Government

Student leadership is an important part of the campus social and academic life. All members of Student Government are elected by the student body.

Then the elected members vote to decide who the executive leaders will be. Members of Student Government meet and discuss critical issues that impact students from an academic and social standpoint.

Students interested in running for Student Government must exhibit modest academic achievement and an interest in improving the campus environment.

Senators serve on the York College Faculty/Student Senate, York College Association, York College Auxiliary Enterprises, Technology Fee Committee and various other committees that affect the campus environment.

Members of the Student Government also participate in a leadership training conference where they are taught skills and techniques that help them become better leaders. Their office is located in the Academic Core Building, Room 1G04.

York College Women's and Men's Centers

The two centers provide supportive services for the growth and development of students as they pursue academic and lifelong goals.

The centers accomplish their 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.

They hold on-going discussion groups and rap sessions and have a comprehensive listing of resources and referrals. The centers also offer individuals the opportunity to volunteer and help others through their mentoring programs.

The centers have a warm and friendly atmosphere where everyone is welcome to work or relax in a comfortable environment. Both females and males are welcome in either center.

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 are 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.

Intercollegiate Athletics

York College is a member in good standing of CUNY Athletic Conference (CUNYAC), The Eastern Collegiate Athletic Association (ECAC), and the National Collegiate Athletic Association (NCAA), Division III.

The York College Intercollegiate Statement of Philosophy seeks objectivity, shuns bias, fosters scholarship for life-long learning, and celebrates cultural diversity.

In principle and practice, the Intercollegiate Athletic Program integrates ethical behavior and attitudes, and through competitions, promotes wellness and, as part of the athletic experience, engages the athlete in community service.

The Intercollegiate Athletic Program places equal importance on the goals and objectives of competition and spectatorship, and collegiality and competitiveness as a "love and enjoyment of sport," not merely competition for the extrinsic award. The York College Cardinals are guided by the principles of sportsmanship, mutual respect and discipline, and are challenged to achieve as individuals and as members of their respective teams.

To this end, the college places emphasis on in-region, regular season competition and the CUNYAC championships. At no time do the goals and objectives of competition out-weigh student athletes' physical, mental and emotional well being.

Guided by the principles of fair and equitable treatment and the NCAA requirement of gender equity, York college sponsors 13 competitive teams: five men's teams, six women's teams, and two varsity teams.

York College embraces the philosophy of Division III competition and honors academics first and athletics second. Student athletes at York College are encouraged to be scholar athletes as evidenced by the academic good standing requirement of the college, which exceeds the minimum grade point average for graduation and applies to all athletes regardless of curriculum level, and fosters life-long learning.

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 CUNY 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 p.m.. 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.

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.

Student Discipline

Student discipline is a matter of concern for the entire College Community. In June 2004, the CUNY Board of Trustees approved a new policy on academic integrity.

The policy provides definitions and examples of various forms of academic dishonesty and outlines procedures of sanctions for violations.

Academic dishonesty is prohibited in The City of New York and is punishable by penalties, including failing grades, suspension, and expulsion.

Definitions and Examples of Academic Dishonesty:

Cheating is the unauthorized use or attempted use of material, information, notes, study aids devices or communication during an academic exercise.

The following are some examples of cheating, but by no means is it an exhaustive list:

- Copying from another student during an examination or allowing another to copy your work.
- Unauthorized collaboration on a take home assignment or examination.
- Using notes during a closed book examination.

- Taking an examination for another student, or asking or allowing another student to take an examination for you.
- Changing a graded exam and returning it for more credit.
- Submitting substantial portions of the same paper to more than one course without counseling with each constructor.
- Preparing answers or writing notes in a blue book (exam booklet) before an examination.
- Allowing other to research and write assigned papers or do assigned projects, including use of commercial term paper services.
- Giving assistance to acts of academic misconduct/dishonesty.
- Fabricating data (all or in part).
- Submitting someone else's work as your own.
- Unauthorized use during an examination of an electronic devices such as cell phones, palm pilots, computers or other technologies to retrieve or send information.

Plagiarism is the act of presenting another person's ideas, research or writings as your own. The following are some examples of plagiarism, but by no means is it an exhaustive list:

- Copying another person's actual words without the use of quotation marks and footnotes attributing the words to their source.
- Presenting another person's ideas or theories in your own words without acknowledging the source.
- Using information that is not common knowledge without acknowledging the source.
- Failing to acknowledge collaborators on homework and laboratory assignments
- Internet Plagiarism includes submitting downloaded term papers or parts of term papers, paraphrasing or copying information from the internet without citing the source, and "cutting pasting " from various sources without proper attribution.

Obtaining Unfair Advantage is any activity that intentionally or unintentionally gives a student an unfair advantage in his/her academic work over another student.

The following are some examples of obtaining an unfair advantage, but by no means is it an exhaustive list:

- Stealing, reproducing, circulating or otherwise gaining advance access to examination materials.
- Depriving other students of access to library materials by stealing, destroying, defacing, or concealing them.
- Retaining, using or circulating examination materials, which clearly indicate that they should be returned at the end of the exam.
- Intentionally obstructing or interfering with another student's work.

Falsification of Records and Officials Documents

The following are some examples of falsification, but by no means is it an exhaustive list:

- Forging signatures of authorization.

- Falsifying information on an official academic record.
- Falsifying information on an official document such as a grade report, letter of permission, drop/add form, ID card or other college document.

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 computer resources.

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 recently finished project to upgrade the network infrastructure to a gigabit fiber backbone and Cat 6 cable have vastly improved data, voice, and multimedia 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.

Web Support: The Center provides accounts for all students, faculty, and staff to develop and publish web pages in support of their academic pursuits.

Computer Labs: A large number of Internet-capable 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 computers, networked laser printers, and each contains a high resolution LCD data/video projector that allows computer images 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 computers, organizers 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 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 computer lab for drop-in use by students (3rd Floor-Academic Core).

The Writing Center (1C1B) contains 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 over 80 Internet accessible public 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, staff and students throughout the College. The Help Desk may be contacted at ext. 5300 or HelpDesk@york.cuny.edu.

Web-based Online Learning: The Center provides technical support for faculty and students in utilizing Blackboard, a web based course management software in teaching and learning. The Blackboard is hosted on a centralized server maintained at the CUNY CIS. York faculty members offer three types of Blackboard based courses: asynchronous, hybrid, and web-enhanced.

Educational Technology

Instructional Development: The Center advises 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 supports areas such as web-based learning, interactive video, television, and multimedia instruction.

Smart Classrooms and Lecture Halls: All classrooms and lecture halls provide connectivity to the campus network infrastructure. As a result of this "smart" technology, each classroom has the ability to provide LCD projection for instructional purposes. Further, the five full equipped 90, 150, and 250-seat lecture halls offer remote control rear projection capability, in addition to, Internet connectivity.

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

Media Collection: York College's Media Collection, housed in AC-4G02, consists of over 3,000 titles of videos and DVD's available for instructional use. In addition, the Media Collection has slides, 3/4 video, 16MM films and filmstrips.

These can be transferred to video, DVD or PowerPoint presentations for new materials to support the teaching curriculum and previews for evaluations are encouraged. There is a paper catalog, listed in two volumes: the York College Educational Media Catalog Vol. I: Subject Guide, and Vol. II: Alphabetical Guide. Newly acquired titles can be accessed at: www.york.cuny.edu/it/acet/media

CUNY Instructional Materials Consortium: Through its participation in the CUNY Instructional Materials Consortium, the Media Center provides faculty access to a collection of more than 20,000 titles of film and video from other CUNY colleges that can be borrowed for classroom use. Requests must be received at least two weeks prior to date of anticipated use. For titles and descriptions, access the database through CUNY and at <http://apps.appl.cuny.edu/>.

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 video conferences 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.

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 has been 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 academic study. Most of the Library collection is available in open stacks and is arranged according to the Library of Congress classification scheme. The present collection comprises over 160,000 books, 55,000 reels of microfilm, and 90,000 microfiche cards.

The periodicals collection is composed of over 500 current titles in print and on microfilm, plus thousands of full text journals online, with outstanding U.S. newspapers as a special resource for research. Special Collections in the Library include the Bassin Collection; 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 holdings are augmented locally through inter-library loan arrangements. CUNY Libraries Inter-Campus Services (CLICS) allow individuals to request materials from other CUNY campuses. For those materials unavailable through CLICS, students, faculty, and staff may file an Interlibrary loan (ILL) request form in person or via the library's webpage. These two services, CLICS and ILL, make local, national, and international resources available to faculty and students.

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.

The library's electronic resources and services are accessible from off-campus with a validated York ID card. Each semester, York ID cards must be validated at the G-Wing Circulation Desk.

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Food and drinks are not allowed in the Library. In the Library, all cell phones and paging devices should be turned off.

When classes are in session during the Fall and Spring semesters, the Library's hours are:

Monday to Thursday, 9:00 A.M.-10:45 P.M.; Friday, 9:00 A.M.-8:30 P.M.; Saturday, 9:00 A.M.-5:00 P.M.; Sunday, 12:00 P.M.-5:00 P.M.

Please check the Library website for schedule changes.

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 the CUNY Proficiency Examination (CPE). For information, go to Room 1C18 or call 718-262-2494.

Tutorial Services

For a complete listing of services, visit the web: www.york.cuny.edu/student/tutoring/ where you would see that a variety of tutorial programs are offered on campus.

Other Programs

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

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 meet 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.

CLIP 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. Enrollment in the program allows students to not only improve their skills, but to save their financial aid for courses that fulfill graduation requirements.

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.

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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: SC 114 Telephone: 718-262-3766 E-mail: clip@york.cuny.edu Director: Hamid Kherief Assistant Director: Claudia Hortua

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 Center for Lifetime Learning, 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.

- 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.
- 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.
- 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.
- The Education for Gainful Employment (EDGE) Program is funded by the New York State Department of Labor. It provides classroom instruction, career counseling, job preparation and job search workshops as well as job placement services to eligible Learning Center students.

Center for Lifetime Learning

The Center for Lifetime Learning 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 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 African 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.

CUNY Aviation Institute at York College

Established in 2003, the CUNY Aviation Institute at York College is the first CUNY institute to focus specifically on aviation studies.

As an initiative funded by a major grant from the Port Authority of New York and New Jersey, the Institute is dedicated to providing educational opportunities for faculty, students and aviation professionals that will help develop their careers in the aviation and allied industries.

In addition to collaborating with York College and University faculty to develop a future aviation studies degree program, the CUNY Aviation Institute at York College is committed to supporting continuing education and enhancing research opportunities for both faculty, current and prospective aviation professionals.

Prospective students interested in Aviation courses may enroll in a Management BS program within the Department of Accounting and Business and focus on a concentration in Aviation Management.

BUS 230 Introduction to the Aviation Business BUS 235 – Airport Planning and Management BUS 330 – Aviation Operations MKT 353 – Aviation Marketing Economics Office: AC 4G04E Telephone: 718-262-2829 E-mail: aviation@york.cuny.edu or visit their www.york.cuny.edu/aviation

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 bachelor's 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,

- Attend meetings with advisors prepared with a tentative course schedule
- 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.

Freshmen (Non-SEEK)

Students with less than 27.5 credits are advised by counselors in the Counseling Center in AC-1G02 (718-262-2272). Freshmen advisement is mandatory.

Declared Major

Students with 28 or more credits who have a major are advised by faculty in their major department.

Undeclared Major

Students undecided as to their major field are advised in the Academic Advisement Center in AC-2C01 (718-262-2280).

Entering Transfer Students

Transfer students who have yet to register for their first semester are required to be advised at the Academic Advisement Center in AC-2C01 (718-262-2280).

SEEK Students

SEEK students are advised by SEEK counselors in AC-1C08 (718-262-2300). 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.

English as a Second Language (ESL) Students

ESL students are advised by the ESL Coordinator in SC-114 (718-262-3766).

Other student populations:

Students on Probation Counseling Center, AC-1G02 (718-262-2272)

York Scholars Office of Scholarship Programs, AC-4DA1 (718-262-2347)

Student Support Services – AC-1E03 (718-262-2423)

York Enrichment Services – AC-1G02 (718-262-2274)

Student with Disabilities – AC-1G02 (718-262-2272)

Academic Advisement Center

The Academic Advisement Center is dedicated to furthering the educational mission of York College by assisting students to be academically successful. Academic advisors support students to successfully transition to the College, explore life and career goals and develop an academic plan.

Academic advisement is a collaborative teaching relationship among academic advisors, students, faculty and the College community. Advisors support students to become self-directed learners and persist to graduation and beyond.

Academic Advisors assist students to

- Make decisions related to their academic careers at York College.
- Understand graduation requirements, and how they impact the choice of courses.
- Develop an academic plan for persisting to graduation.
- Understand York College programs, policies, procedures and resources.
- Explore various majors, and where they can lead after graduation.
- Explore life goals, values, abilities, interests and limitations.

The Academic Advisement Center provides advisement services for the following:

- Entering transfer students
- Students who have not declared a college major
- Students unable to see their faculty advisor
- Non-matriculated students
- Students required to take the CUNY Proficiency Exam (CPE)
- Students submitting petitions to the Committee on Academic Standards (CAS)

The Academic Advisement Center is located in AC-2C01 and can be reached by calling 718-262-2280 or via e-mail at advisement@york.cuny.edu.

Committee on Academic Standards

The Committee on Academic Standards is a group of York College faculty members and administrators charged with reviewing, and settling questions about students' academic standing and progress.

The Committee also includes student representatives, who participate in reviewing appeals of denied petitions.

A frequent task for the Committee is to consider and make decisions about petitions, which are requests to review a student's academic record and make exceptions to York College's stated academic policies and procedures.

Below are definitions and criteria for the petitions submitted to the Committee on Academic Standards:

Appeal of Denial

This is a request for reconsideration of any previously-denied petition. New information pertaining to the denied petition may be presented during the appeal.

There is a two-year limitation in acting upon a previously-denied petition, and the decision on the appeal is final.

Appeal of Dismissal

A student who has been dismissed for academic reasons may file a request to be reinstated for the spring if he or she was dismissed from the previous fall semester, or for the fall if dismissed from the previous spring.

Supporting documentation is required, and a student is allowed to appeal a dismissal no more than two times. The students' performance in his or her major, ability to carry a full credit load and the circumstances that led to the student's substandard performance will be considered in the appeal.

Any reinstated student will be considered on academic probation and therefore not allowed to register for more than twelve credits for the semester.

Excess Credit Allowance

If a student wants to take more than 18 credits (normally the maximum number allowed) in a fall or spring semester, he or she must file an excess credit petition. Prior performance from previous semesters will be reviewed.

Extension of ABS or INC grade

A student applies for this before the designated deadline to have additional time to complete coursework or to take the final exam. One of these extensions may be granted until the last day of the semester in which the request was made.

Evidence that an exceptional circumstance in some way caused the student to miss the deadline for ABS/INC must be documented.

Grade Appeal

This is not simply a request to change a student's grade. Rather, it is a request that the Committee review the instructor's adherence to stated standards for performance and evaluation.

The Committee cannot change the grade given by the instructor. Rather, the Committee submits its recommendation to the instructor, department chair and provost.

Grade Changes

This differs from the grade appeal in that it's used to request a change because of a documented error in the instructor's evaluation of the work that affects a student's final grade or because the instructor missed the deadline for changing a grade of ABS or INC.

Readmission

A student files for this if he or she has been separated from the college for at least a semester and has a GPA of less than 2.0 at the time of application for readmission.

To apply, a student must have passed all three skills tests prior to filing the petition and present supporting documentation.

Retroactive Leave of Absence

If a student wants to withdraw from all courses in a semester, he or she can after missing the ten-week deadline for a leave of absence or after having never attended or stopped attending all of his or her courses. The student must document a reason for an exceptional circumstance that affects his or her ability to finish all courses for the semester.

Retroactive Permission to Concurrently Attend Another Institution

A student who applies for this is seeking permission to attend another institution while at York when the registration period has ended for both institutions. An application from the Office of the Registrar is required along with supporting documentation. The student must have a documented reason that caused him or her to miss the deadline for receiving permission to attend two colleges.

Retroactive Withdrawal

This is used to change grades of WF, WU, FAB, FIN, ABS or INC to W, or to assign a grade of W in a course for which a grade has yet to be assigned. To apply, the student must have missed the ten-week deadline for withdrawal. Or, she or he must have never attended or stopped attending the course. Instructor input showing a record of attendance is required.

So is documentation of an exceptional circumstance that affected the student's ability to adhere to the deadline, attend class or complete work. This is not granted for an entire semester; in that case, a student should apply for a retroactive leave of absence (see above).

Retroactive Pass/Fail

To elect the pass/fail option after the ten-week deadline has passed, or to rescind the pass/fail option after the last day of classes, a student petitions for a retroactive pass/fail status change. When applying, the student must document an exceptional circumstance that caused him or her to miss the deadline for electing or rescinding the pass/fail option. A change of grade from the instructor is also required.

Waiver of Degree Requirements

In special circumstances, students can request to have any of the following requirements waived: General Education, Major, Writing Intensive, CPE, Liberal Arts, Credit, Major Grade Point Average and/or Cumulative Grade Point Average.

Honor Societies

York College Honor Society for the Liberal Arts:

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.

Other honor societies on campus include:

Sigma Delta Pi, National Spanish Honor Society

Kappa Delta Pi, National Honor Society in Education 39

Phi Alpha Theta, International History Honor Society

Psi Chi, National Honor Society in Psychology

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 Computer Science 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 online at: www.york.cuny.edu/cmssc. Questions may be directed to the and Computer Science.

Louis Stokes Alliance for Minority Participation in Science, Mathematics, Engineering, and Technology (LSAMP): (Stipend ranges from \$1,000-\$5,000 over 2 semesters; \$3,500 over the summer) Funded by a grant from the National Science Foundation in collaboration with CUNY.

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 CUNY in a common purpose: dramatically increase the number of minority students who earn bachelor's degrees in SMET discipline

Student Benefits:

\$1,000-\$5,000 over 2 semesters (awarded as a personal check twice a semester) \$3,500 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.

For applications and information please contact the Math Department, Room 2C07b, 718-262-2542. For further information visit their web Site at nyc-amp.cuny.edu

Teacher Academy

The Teacher Academy at York College is a four-year program for secondary math and science education majors.

Students are offered an intellectually stimulating environment where they can master professional strategies and skills they need to become exemplary teachers in mathematics, biology, chemistry or earth science.

Building on forty years of excellence in teaching and research, York College offers students the opportunity to study with renowned educators and researchers in intimate seminar classes in a nationally accredited setting.

Participants receive an award covering full tuition and fees; an internship paying up to \$1,600 each year; and opportunities to conduct research in math or science with CUNY faculty.

Teacher Academy students will be eligible for a full-time teaching position within the New York City Department of Education upon the successful completion of the Teacher Academy program including course work, field work, and pre-employment screening. For more information please contact the Teacher Academy Office at 718-262-3780.

York College Honors Program

Honors Program Overview

The York College Honors Program's goals are to expose York College's best students to an interdisciplinary approach to learning and support these students as they become independent scholars.

Our interdisciplinary approach allows students to bridge different disciplines in the academy (such as mathematics and theater) and recognizes the importance of viewing problems from the perspectives of multiple disciplines.

As independent scholars, honors program students will design honors sections of courses for themselves and select a topic of study for their honor's thesis. The thesis is an independent project designed by the student. During this process, the student works closely with a faculty member who will mentor the honors student through their thesis.

Program Content

Two semesters of the Honors Seminar. This interdisciplinary course changes topics and instructors each semester. Past courses: The Globalization of Jazz, Telling a Free Story: Spiritual and Political Autobiography of the African Diaspora, Creative Genius, Anger, Revenge & Justice, and The Digital Revolution.

Two Honors Supplemental Courses – H Courses. H courses are courses from the York curriculum. Before the course begins, honors students contracts with the course instructor to complete the classes' normal assignment and additional work based upon the student's personal interests.

Honors Thesis. The honors thesis is completed by the end of the student's senior year. During the preceding year, the student works with a faculty mentor on a topic of the student's personal interest. Attendance at special events each semester: at least one scholarly event per month, and at least one cultural event per semester.

Community.

York College Honors Program students attend special classes and events with other honors program students. Honors students challenge each other to excel academically and they support each other in their academic pursuits.

Faculty Mentoring.

York College Honors Program students spend their last year working in a one-on-one relationship with a professor. With their mentor honors, students develop and complete an honors thesis, a professional-level research project on an area of their personal interest.

Recognition.

Honors graduates official York College transcripts will show that they have graduated from the York College Honors Program and their honors thesis will serve as evidence of the high level of academic work they have proven they can do! Honors graduates are awarded the York College Honors Medal at a recognition ceremony, which only they can wear at graduation.

Support.

Honors students have access to the honors lounge, a special lounge just for honors students. The lounge is equipped with computers, printers and copiers. Beginning in the fall of 2008, all honors students are given state-of-the-art laptop computers to use (which are given to the student upon graduation).

The honors program often sponsors trips to cultural and scholarly events for honors students.

During the last three years, honors students were given a guided tour of Museum of Modern Art's DADA exhibit and attended the musical, The Color Purple and the Broadway play, The Farnsworth Invention.

Eligibility Requirements

- Current High School Students
- High school grade point average of 85 or higher
- College Transfer Students
- College grade point average of 3.25 or higher
- At least 60 credits remaining to be taken at York College

Application Procedures and Selection

Applicants should list York College as one of their top three schools when completing the CUNY Freshman application.

Confirmed York applicants who meet the above academic criteria are invited to apply to the York College Honors Program. Application instructions can be found at the York College Honors Program's website www.york.cuny.edu/honors

The York College Honors Program selection process is a highly competitive process. Selection is made by the Honors Program Faculty Committee based upon evidence presented by the student which predicts existing academic excellence and future scholarship.

Performance Requirements

To graduate from the York College Honors Program students must complete the above elements of program content and maintain at least at 3.25 GPA. For more information about the Honors Program, please contact:

Honors Program Director, York College/CUNY 94-20 Guy R. Brewer Blvd. Jamaica, NY 11451, 718-262-2699

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 718-262-2423, AC-3E03, or Dr. Lynne Richards at 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 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.

Applying for Graduation

Students are required to file a diploma card during the semester prior to the semester in which they plan to complete their requirements for graduation. See College calendar for exact deadline date for application.

This card is available 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.

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 the following requirements.

General Education Requirement

Students may complete the General Education 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 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 three or more consecutive 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 three consecutive semesters must follow the bulletin in effect at the time 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.

Every student who is a candidate for the degree of Bachelor of Arts or Bachelor of Science must satisfy the General Education Requirement, except as listed below.

No General Education course may be used to fulfill major requirements. Important: Some departments require students to take specific General Education requirements. Please check with the academic department for required courses.

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.

Writing Intensive Requirements

Students who entered the College (or were readmitted*) in Fall 2001 or later must meet the Writing Intensive course requirement passed by the York College Senate by taking three Writing Intensive-designated (WI) courses.

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

Students must complete: two WI courses in the lower division of the curriculum (at the 100 or 200 level), and one WI course in the upper division of the curriculum (at the 300 level or above) within the major.

Transfer students who enter with the General Education Requirements fulfilled must take one WI course in the upper division within the major.

All students who entered the College as freshmen between Fall 2001 and Spring 2003 are required to take two (not three) WI courses for graduation.

If the major discipline has defined an upper-division WI course that must be one of the two WI courses taken for graduation. If the major discipline has not yet defined an upper-division WI course, one of the two courses must be chosen in consultation with the major advisor.

Transfer students who enter with the General Education Requirements fulfilled must take one WI course in the upper division within the major.

If their major has no upper-division WI course, they must take one WI course (outside their major) chosen in consultation with their major advisor.

The WAC Course Coordinating Committee, as part of its charge from the York College Senate, will make case-by-case determinations of the requirement only for students who present special circumstances that make it impossible for them to meet these guidelines.

Each semester, WI sections are indicated in Schedule of Classes. On a student's transcript, completed WI courses are indicated by W or WI to the left of the grade.

For further information, contact the Coordinator for Writing Across the Curriculum.

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:

- 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:
- Transferring credits from another post-high school institution
- Achieving a sufficient grade on a special examination (see the section on Special Examinations below)
- Credits for Life Experience (see the Community Service Program in the section on Special Programs)
- 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:

- CLEP (College Level Examination Program)
- CPEP (College Proficiency Examination Program)
- USAFI (United States Armed Forces Institute) Madison
- 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.

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 Advisement center, room 2C01.

Grade Point Averages

Students are required to have a "C." Average for graduation for most majors.

Please consult individual major program descriptions for details. This includes:

- C." Average in all York College courses and,
- An overall "C." Average for the courses in their major disciplines, for a transfer student, an overall "C." Average in all college work.
- A student may not graduate with an unresolved grade (ABS/INC/PEN), nor will any grade change be applied to the record once a student has graduated.

- In addition each student must have a Cumulative Point Value of 0 or greater to graduate from York College (see paged for more information)

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 are identified by (Lib Arts) after the course number.

Courses identified with (¶) CANNOT be used for Liberal Arts credits by Accounting majors.

The following are NOT Liberal Arts courses:

Academic Computing, Accounting, Biotechnology (except Biotechnology 480), Business, Communications Technology, Co-op, Education, Health Education 200, 224 & 317, Health Professions (except HPEH 110, 140, HPGC 101, 102 and 201).

Health Sciences Physician Assistant, Marketing, Nursing, Occupational Therapy, 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, SEEK Counseling Seminars, Student Development, or Theater Arts 112-115 and 215-219.

*Note: Students who have not been in attendance for three or more semesters must follow the College Bulletin in effect at the time of readmission.

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.

General Education Requirements

General Education 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, 202, 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
II. Humanities	9.0
A) Literature — 200	
B) History and Philosophy - <i>one course from the following:</i>	
C.) Fine & Performing Arts - Choose one course from the following	
1. Fine Arts 104, 150, 152, 155, 264, or 381	
2. Music 101, 110, 225, 250, or 253	
3. Speech Communication 160	
4. Theater Arts 110, 114, 211, 215, 216, 217, 218, or 219	
III. Behavioral Sciences	6.0
Six credits from two disciplines outside your major from the following selection of courses.	
1. AAS 101 or 172	
2. Anthropology 101 or 103	
3. Economics 101 or 102	
4. Political Science 101, 102, or 103	
5. Psychology 102 or 110	
6. Sociology 101	
IV. Mathematics	4.0
Select one course from the following:	
Mathematics 111, 115, 121, 150, 184, or 190	
V. Natural Sciences:	5.0-6.0
A) Non-Science and Non-Mathematics Majors - six credits in any two disciplines, chosen from the following:	
1. Astronomy 101, 102, 140	
2. Biology 110, 120,	
3. Chemistry 120, 121	
4. 110, 115, 120, 121, 140	
5. Health Prof & Environmental Health 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 your major discipline.	
Total:	42-51
<i>Remainder of Credits in Major and Free Electives**</i>	
Baccalaureate Total Credits =	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 Available at York

Each student must complete the identified requirements for a major. To be graduated, students must complete the requirements in a major discipline or in another authorized grouping of courses constituting a major.

These courses must be numbered 200 or higher unless otherwise specified in this bulletin. The table 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.

HEGIS CODE Program Name(s)

0502 Accounting (B.S.)
 2211 AAS (B.A.).
 2211 AAS/Childhood Education 1-6 (B.A.)
 2202 Anthropology (B.A.)
 2202 Anthropology/Childhood Education 1-6 (B.A.)
 1003 Art History (B.A.)
 1002 Art-Studio (B.A.)
 0599 Aviation Management (B.S.)
 0401 Biology (B.A. or B.S.)
 0401 Biology/Childhood Education 1-6 (B.A.)
 0401 Biology/Secondary Education 7-12 (B.S.)
 0499 Biotechnology (B.S.)
 0506 Business Administration (B.S.)
 1905 Chemistry (B.A. or B.S.)
 1905 Chemistry/Secondary 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/Childhood Education 1-6 (B.A.)
 1501 English (B.A.)
 1501 English/Childhood Education 1-6 (B.A.)
 1299 Environmental Health Science (B.S.)
 1102 French: Creole (B.A.)
 1102 French/Childhood Education 1-6 (B.A.)
 1914 Geology (B.S.)
 1917.01 Geology (Earth Science)/Secondary Education 7-12 (B.S.)
 2299.10 Gerontological Studies & Services (B.S.)
 0837 Health Education (B.S.)
 0837 Health Promotion Management (B.S.)
 0602 Journalism (B.A.)
 2205 History (B.A.)
 2205 History/Childhood Education 1-6 (B.A.)
 0507 Information Systems Management (B.S.)
 4901 Liberal Studies/Childhood Education 1-6 (B.A.)
 0509 Marketing (B.S.)
 1701 Mathematics (B.A. or B.S.)
 1701 Mathematics/Childhood Education 1-6 (B.A.)
 1701 Mathematics/Secondary Education 7-12 (B.S.)
 1223 Medical Technology (B.S.)
 0835 Movement Science (B.S.)
 1005 Music (B.A.)

1005 Music/Childhood Education 1-6 (B.A.)
 1203 Nursing (B.S.)
 1203 Generic Nursing
 1201/1208 Occupational Therapy (B.S. /M.S.)
 1509 Philosophy (B.A.)
 1509 Philosophy/Childhood Education 1-6 (B.A.)
 1299.10 Physician Assistant (B.S.)
 0835 Physical Education (B.S.)
 1902 Physics (B.S.)
 2207 Political Science (B.A.)
 2207 Political Science/Childhood Education 1-6 (B.A.)
 2001 Psychology (B.A.)
 2001 Psychology/Childhood Education 1-6 (B.A.)
 2104 Social Work (B.S.)
 2208 Sociology (B.A.)
 2208 Sociology/Childhood Education 1-6 (B.A.)
 1105 Spanish (B.A.)
 1105 Spanish/Childhood Education 1-6 (B.A.)
 1105.01 Spanish/Bilingual Education (B.A.)
 1105 Spanish/Secondary Education 7-12 (B.A.)
 1506 Speech/Communication & Theatre Arts (B.A.)
 1506 Speech/Communication & Theatre Arts Childhood Education -6 (B.A.)

School of Arts and Sciences

The School of Arts and Sciences provides students with the opportunity to obtain an excellent education in the arts, humanities, mathematics and the natural sciences.

Studying with outstanding faculty, nationally and internationally noted artists, scholars, and teachers committed to innovative approaches to instruction and excellence in research and creative endeavors, students will gain a wide-ranging rigorous academic experience and preparation.

Their experiences inside and outside of the classroom will broaden their appreciation and understanding of diverse cultures, and will prepare them to be successful in their chosen careers and to become educated responsible citizens.

In addition to programs in humanities, mathematics, and natural sciences the School of Arts and Sciences provides courses that prepare students for admission to professional programs in education, medicine, law, occupational therapy, social work and others.

The specific aims of the School include:

- To offer and support the general education core for all students and programs with emphasis on writing across the curriculum, quantitative reasoning and literacy, critical thinking and multicultural issues;
- To offer degree programs that serve a diverse student body and communities;
- To encourage research in the arts and sciences disciplines, especially in areas consistent with the College's mission;
- To provide service to the community, the College and the University through program development and outreach activities.

The Dean of the School of Arts & Sciences is Dr. Panayiotis Meleties.

Department of Biology

Chair: McNeil

Professors: Levinger,

Associate Professor: Adams, Arsov, Girardi, MacNeil

Assistant Professors: Beaton, Hua, Simon

Doctoral Lecturer: Casey, Criss

Professor Emeritus: Schlein, Lewis

Biology (BS)

HEGIS Code 0401

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

56.5-59

Required foundation courses:

BI0201	Biological Principles I	4
BI0202	Biological Principles I	4
BI0307	Biostatistics	3
BI0343	Laboratory Exercises in Genetics	2
BI0344	Molecular and General Genetics	4
CHEM102*	Chemical Principles II*	5
CHEM231	Organic Chemistry I	3
CHEM232	Techniques in Organic Chemistry I	2
CHEM233†	Organic Chemistry II	3
PHYS151**	University Physics I*	5
PHYS152**	University Physics II*	5

Organismic and Environmental Biology Choose 9 credits chosen from the following

BI0231	Biology of Plants	4.5
BI0308	Invertebrate Biology	4.5
BI0309	Biology of the Chordates	4.5
BI0325	Histology	4.5
BI0334	Comparative Physiology	4.5
BI0403	Ecology	4.5

Molecular Biology Choose 7.5 - 10 credits from the following:

BI0320	Cell Biology	4.5
BI0412	Biochemistry	3
BI0415	Biochemistry and Molecular Biology	2
BI0452	Developmental Biology	4.5
BI0465	Microbiology	4.5
BI0466	Immunology	4.5
BI0480	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 members 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.

Biology (Minor)

Minor Program in Biology	13.5 15.5
Required Courses	6
BIO343 Laboratory Exercises in Genetics	2
BIO344 Molecular & General Genetics	4
Organismic and Environmental Biology Choose one course from the following)	
BIO231 Biology of Plants	4.5
BIO308 Invertebrate Biology	4.5
BIO309 Biology of the Chordates	4.5
BIO325 Histology	4.5
BIO334 Comparative Physiology	4.5
BIO403 Ecology	4.5
Cell and Molecular Biology Choose one course from the following	
BIO320 Cell Biology	4.5
BIO412 Biochemistry	3
BIO415 Biochemistry and Molecular Biology	2
BIO452 Developmental Biology	4.5
BIO465 Microbiology	4.5
BIO466 Immunology	4.5
BIO480 Theory and Experimentation in Biotechnology	5

Biotechnology (BS)

HEGIS Code 0499

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 bachelor's 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 320, Biology 415, 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
Required foundation courses	31
BIO201 Biological Principles I	4
BIO202 Biological Principles II	4
CHEM102 Chemical Principles II *	5
CHEM231 Organic Chemistry I	3
CHEM232 Techniques in Organic Chemistry I	2
CHEM233 Organic Chemistry II	3
PHYS151 University Physics I *	5
PHYS152 University Physics II *	5
Biotechnology Requirements	20
BIO203 Introduction to Biotechnology	2
BIO241 Instrumental Analysis in Biotechnology	3
BIO343 Laboratory Exercises in Genetics	2
BIO344 Molecular & General Genetics	4
BIO480 Theory and Experimentation in Biotechnology	5
BIO485 Introduction to Industrial Biotechnology	1
Choose one of the following	
BIO412 Biotechnology	3
CHEM412 Biochemistry	3
Biotechnology Options (Choose from A or B)	
A. Cell and Molecular Biotechnology	8.5-9
BIO415 Experimental Biochemistry & Molecular Biology	2
BIO445 Cell and Molecular Biology	4.5
BIO465 Microbiology	4.5
BIO466 Immunology	4.5
CHEM234 Techniques of Organic Chemistry II	2
CHEM321 Physical Chemistry I	2
B. Bioinformatics & Computational Biotechnology	7-9
BIO307 Biostatistics	3
BTEC350 Computational Biology & Molecular Design	3
BTEC352 Bioinformatics	3
CS172 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 and Physics 102 may be substituted for Physics 152 (by advisement).*

Biotechnology (Minor)

Required Courses		14
BIO343	Laboratory Exercise in Genetics	2
BIO344	Molecular & General Genetics	4
BIO412	Biochemistry	3
BIO480	Theory and Experimentation in Biotechnology	5

Biology Education (Certificate Program)

The Science Education program is a multidimensional one, with opportunities in Biology. Its courses function to complement the Education Certification Programs.

The Program houses the Secondary Education Certification programs in Biology and provides/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.

Teaching Certification in Biology 7-12 (BS)

HEGIS Code 0401

Students planning to seek New York State teaching certification in Biology should file an application form in the Department of Teacher Education during their sophomore year.

Once accepted, it is the student's responsibility to seek advisement from the advisors or chairpersons in the Departments of Biology and Teacher Education.

Students intending to teach Biology at the secondary school level must successfully complete the requirements of a major in this discipline.

Due to changing requirements for New York State Teacher Certification and 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 AC-1D12, (718) 262-2450. E-mail: teachered@york.cuny.edu

Acceptance to the program is contingent upon:

- Enrollment in the Mathematics major;
- A minimum GPA of 2.75;
- The passing of all CUNY assessment examinations;
- 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		26-27
Foundations Sequence		12-13
EDUC280	Child and Adolescent Development for Teachers	3
EDUC281	Field Experiences in Childhood and Adolescent Development	1
EDUC283	Educational Psychology: Effective Teaching and Learning	3
AC101	Introduction to Microcomputers I	1
AC230	Teaching with Multimedia Technology	2
Choose one of the following		
PHIL202	Major Ideas and Issues in Education	3
SOC202	Major Ideas and Issues in Education	3
Professional Education Sequence		6
EDUC340	Literacy Instruction inside Middle and Secondary Schools	3
EDUC375	Curriculum and Methods in the Secondary School: Biology	3
Student Teaching and Student Teaching Seminar		8
EDUC442	Supervised Student Teaching, Biology, Grades 7-9	4
EDUC443	Supervised Student Teaching, Biology, Grades 10-12	4

Department of Chemistry

Chair: Johnson

Professors: Richards

Assistant Professors: Chang, Desamero, Fearnley, Holford, Lee, Profit, Robie

Lecturer: Foster

Chemistry (BS)

HEGIS Code 1905

The Chemistry Program has three principal objectives:

- To prepare Chemistry majors for careers in chemistry or related areas such as medicine, dentistry or the health professions;
- To provide students in other disciplines with the required chemistry courses for their programs; and
- 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, inorganic, organic and physical chemistry, and biochemistry.

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**Required Courses**

CHEM101	Chemical Principles I	5
CHEM102	Chemical Principles II	5
CHEM231	Organic Chemistry I	3
CHEM232	Techniques of Organic Chemistry I	2
CHEM233	Organic Chemistry II	3
CHEM234	Techniques of Organic Chemistry II	2
CHEM310	Inorganic Chemistry	3
CHEM321	Physical Chemistry I	3
CHEM322	Physical Chemistry II	3
CHEM341	Instrumental Analysis I	3
CHEM342	Instrumental Analysis II	3
CHEM421	Physical-Inorganic Laboratory	3
MATH122	Analytic Geometry and Calculus II	4
MATH221	Analytic Geometry and Calculus III	4
PHYS151	University Physics I	5
PHYS152	University Physics II	5

Choose One of the following courses

CHEM330	Structure and Mechanism in Biochemistry	3
CHEM339	Heterocyclic Chemistry and Drug Chemistry	3
CHEM412	Biochemistry	3
CHEM450	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.

Students intending to pursue graduate study in Chemistry are advised to take a computer language, 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 the 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 Department.

Requirements for Graduation with Honors:

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

- Certification by the Faculty of the Chemistry Department.

Chemistry (Minor)**HEGIS Code 1905**

Chemistry is central to the study of many biological and physical systems. Students majoring in biology or physics (as well as pre-medical and pre-dental students) are more competitive if they complete a minor in chemistry.

Chemistry 101 and 102, and Physics 151, are prerequisites for the minor program courses. Students interested in this minor will have to take these courses. The physics major requires Mathematics 122; the biology major requires Chemistry 231, 232, and 233.

Majors in cell or molecular biology are required to also take Biology 412, which is identical with Chemistry 412. For students in these three cases, the chemistry minor requires only 16, 12, or 15 credits more, respectively.

Students may not use Biology 412 or Chemistry 412 to satisfy both the requirement for the biology major and the elective requirement for the chemistry minor.

Required Courses 20

CHEM231	Organic Chemistry I	3
CHEM232	Techniques of Organic Chemistry I	2
CHEM233	Organic Chemistry II	3
CHEM234	Techniques of Organic Chemistry II	2
CHEM321	Physical Chemistry I	3
CHEM322	Physical Chemistry II	3
MATH122	Analytic Geometry and Calculus II	4

One course from the following:

CHEM310	Inorganic Chemistry	3
CHEM321	Physical Chemistry I	3
CHEM322	Physical Chemistry II	3
CHEM330	Structure and Mechanism in Biochemistry	3
CHEM341	Instrumental Analysis I	3
CHEM342	Instrumental Analysis II	3
CHEM412	Biochemistry	3
CHEM450	Advanced Topics in Chemistry	3

Science Education

The Science Education program is a multidimensional one, with opportunities in Biology, Chemistry and Earth and Physical Sciences. Its courses function to complement the Education Certification Programs.

The Program houses the Secondary Education Certification programs in Biology, Chemistry and Geology (Earth Science), and provides and coordinates teacher training programs in the Sciences for primary, intermediate and high school teachers and para-professionals.

The Science Education program houses State and Federal grant programs designed to improve science content and science teaching in primary, intermediate and high schools through Summer and After School Institutes and programs.

Pharmaceutical Sciences (BS)**HEGIS Code 1211.00**

The B.S. Pharmaceutical Sciences will give those who do this degree program the knowledge and skills to work in the flourishing New York and tristate based pharmaceutical, cosmetics, chemical and related industries.

Graduates of the proposed program can be employed in areas such as drug discovery, research and development, product formulation and manufacturing, process improvement, physical and chemical drug analysis and properties, clinical research, pharmacokinetics and metabolism, drug safety and surveillance, regulatory affairs, and licensing.

In addition graduates of the proposed program will be able to pursue graduate studies leading to M.D., D.D.S., B.S /M.S., M.S. or Ph.D. degrees.

Students pursuing the B.S. Pharmaceutical Sciences would have to meet the General Education Requirements for a Chemistry Major plus complete three mandatory Pharmaceutical Sciences courses, a 3-credits Chemistry course, as well as an elective Pharmaceutical Sciences course.

Major Requirements		70-78
MATH122	Analytic Geometry and Calculus II	4
BIO201	Biological Principles I	4
BIO202	Biological Principles II	4
BIO265	Clinical Microbiology	4
CHEM101	Chemical Principles I	3
CHEM102	Chemical Principles II	5
CHEM231	Chem231: Organic Chemistry I	5
CHEM232	Techniques of Organic Chemistry I	3
CHEM233	Organic Chemistry II	2
CHEM234	Organic Chemistry II	3
CHEM310	Inorganic Chemistry	2
CHEM341	Instrumental Methods of Analysis I	3
CHEM342	Instrumental Methods of Analysis II	3
CHEM321	Physical Chemistry I	3
CHEM322	Physical Chemistry II	3
PHYS152	University Physics II	3
PHS301	Pharmaceutics	5
PHS350	Pharmaceutical Manufacturing	3
PHS401	Pharmacology	3
Major Elective Course Choose one of the following		
CHEM330	Structure and Mechanism in Biochemistry 3	
CHEM412	Biochemistry	3
Pharmaceutical Sciences Elective Choose one of the following		
PHS480	Research in Pharmaceutical Science	3
PHS490	Internships in Pharmaceutical Science	3

Chemistry Education (Certificate Program)

The Science Education program is a multidimensional one, with opportunities in Chemistry. Its courses function to complement the Education Certification Programs.

The Program houses the Secondary Education Certification programs in Chemistry and provides/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.

Teaching Certification in Chemistry 7-12 (BS)**HEGIS Code 1905**

Students planning to seek New York State teaching certification in Chemistry should file an application form in the Department of Teacher Education during their sophomore year.

Once accepted, it is the student's responsibility to seek advisement from the advisors or Chairpersons in the Departments of Chemistry and Teacher Education.

Students intending to teach Chemistry at the secondary school level must successfully complete the requirements of a major in this discipline.

Major Discipline Requirements		38-39
Required Courses*		
CHEM101	Chemical Principles I	5
CHEM102	Chemical Principles II	5
CHEM231	Organic Chemistry I	3
CHEM232	Techniques of Organic Chemistry I	2
CHEM233	Organic Chemistry II	3
CHEM234	Techniques of Organic Chemistry II	2
CHEM310	Inorganic Chemistry	3
CHEM321	Physical Chemistry I	3
CHEM322	Physical Chemistry II	3
CHEM341	Instrumental Analysis I	3
CHEM342	Instrumental Analysis II	3
Choose one of the following		
BIO201	Biological Principles I	4
GEOL110	Man and the Earth	3
Education Course Requirements		26-27
Foundations Sequence		12-13
EDUC280	Child and Adolescent Development for Teachers	3
EDUC281	Field Experiences in Childhood and Adolescent Development	1
EDUC283	Educational Psychology: Effective Teaching and Learning	3
SOC202	Major Ideas and Issues in Education	3
AC101	Introduction to Microcomputers I	0-1
AC230	Teaching with Multimedia Technology	2
Professional Education Sequence		6

Major Discipline Requirements		38-39
EDUC340	Literacy Instruction inside Middle and Secondary Schools	3
EDUC377	Curriculum and Methods in the Secondary School: Chemistry	3
Student Teaching and Student Teaching Seminar		8
EDUC444	Supervised Student Teaching, Chemistry, Grades 7-9	4
EDUC445	Supervised Student Teaching, Chemistry, Grades 10-12	4

Due to changing requirements for New York State Teacher Certification and 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. E-mail: teachered@york.cuny.edu

*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.

Dept. of Earth & Physical Sciences

Chair: Schleifer

Professor: Borenstein, Jain

Associate Professor: Paglione

Assistant Professor: Dhar, Khandaker, Popp, Wolosin

Substitute Assistant Professor: Stolte

Professor Emeritus: Scheiner, Spergel

Astronomy (Minor)

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		15
ASTR301	Observational Astronomy	4
Astronomy* Courses at the 200-level or above		11
ASTR201	The Solar System	4
ASTR202	Stars & the Milky Way	4
ASTR203	Introduction to Cosmology	4
ASTR301	Observational Astronomy	4
ASTR495	Independent Study	3
ASTR496	Independent Study	3
GEOL282	Weather and Climate	3
GEOL305	Earth History	3
GEOL340	Remote Sensing	2
GEOL442	Geophysics	3
PHYS282	Weather and Climate	3
PHYS491	Astrophysics I: Planetary Astronomy	3
PHYS492	Astrophysics II: Stellar Astronomy	3
PHYS493	Astrophysics III: Extragalactic Astronomy	3

*Suitable courses from other disciplines may be substituted

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

Geology (BS)

HEGIS Code 1914

Major Discipline Requirements		53.5-56.5
CHEM102	Chemical Principles II	5
GEOL211	Structural Geology	4
GEOL217	Earth History with Paleontology	5
GEOL225	Mineralogy	5
GEOL332	Optical Mineralogy	2
GEOL305	Earth History*	3
GEOL323	Field Methods	1.5
GEOL334	Petrology	4
GEOL425	Field Mapping	4

Choose one of the following groups

Group A

GEOL140	Our Earth	3
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Group B

GEOL110	Man and the Earth	3
GEOL207	Geologic Techniques	1

Electives

GEOL electives		20-22
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Choose eight credits from the following electives:

GEOL282	Weather and Climate	3
GEOL308	Geomorphology	3
GEOL340	Remote Sensing and Air Photo Interpretation	2
GEOL341	Ground Water Hydrology	2

Major Discipline Requirements		53.5-56.5
GEOL342	Rock and Soil Mechanics	2
GEOL343	Ore Deposits and Ore Evaluation	2
GEOL344	Industrial Minerals and Fossil Fuels	2
GEOL346	Laboratory Techniques in Geology	2
GEOL349	Assessment of Environment Impact	1
GEOL403	Paleoecology	3
GEOL411	Sedimentation	3
GEOL412	Stratigraphy	3
GEOL441	Geochemistry	3
GEOL442	Geophysics	3
HPEH140	Environmental Management (Basic)	3
HPEH340	Pollution Control Technology	3
HPEH420	Water Quality Analysis & Management	4
HPEH426	Solid Waste Management	3
HPEH429	Environmental Management (Advanced)	3

Choose eight to ten credits consisting of two of the following lecture groups:

Group A

BIO201	Biological Principles I	4
BIO202	Biological Principles II	4

Group B

PHYS151	University Physics I*	5
PHYS152	University Physics II*	5

Choose at least four credits from the following courses:

MATH111	Introduction to Statistics and Probability**	4
MATH122	Analytic Geometry and Calculus II	4
MATH172	Introduction to Computing	4
MATH121 †	Analytic Geometry and Calculus I+	4

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

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. Geology 140 may be substituted for Geology 110 and 207. Geology 217 may be substituted for Geology 213 and 305.*

*** 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.*

† Mathematics 184 may be substituted Mathematics 121.

B.S. 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:

- Successful completion of the Geology Major Discipline requirements and a 3.0 average in all Geology courses.
- 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.
- Certification by the Faculty of the Geology Discipline.

Geology - Earth Science/Education 7-12 (BS)

HEGIS Code 1914

Students planning to seek New York State teaching certification in Earth Science should file an application form in the Department of Teacher Education during their sophomore year.

Once accepted, it is the student's responsibility to seek advisement from the advisors or Chairpersons in the Geology Discipline and Teacher Education.

Students intending to teach Earth Science at the secondary school level must successfully complete the requirements of the Teacher Education Program in Earth Science.

Due to changing requirements for New York State Teacher Certification and 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 AC-1D12, (718) 262-2450. E-mail: teachered@york.cuny.edu

Major Discipline Requirements		52.5
GEOL115	Energy, Resources and the Environment	3
GEOL120	Our Oceanic Environment	3
GEOL211	Structural Geology	4
GEOL217	Earth History With Paleontology	5
GEOL225	Mineralogy	5
GEOL323	Field Methods	1.5

Major Discipline Requirements		52.5
GEOL282	Weather and Climate	3
GEOL411	Sedimentation	3
CHEM102	Chemical Principles II	5
PHYS151	University Physics I	5
MATH190	Computers in Modern Society	4
Choose one of the following		
ASTR201	The Solar System	4
ASTR202	Stars and the Milky Way	4
Choose one of the following groups		
Group A		
GEOL140	Our Earth	3
Group B		
GEOL110	Man and the Earth	3
GEOL207	Geologic Techniques	1
Teacher Education Requirements		26
Foundation Sequence		12
EDUC280	Child and Adolescent Development for Teachers	3
EDUC281	Field Experiences in Childhood and Adolescent Development	1
EDUC283	Educational Psychology: Effective Teaching and Learning	3
AC101	Introduction to Microcomputers I	1
AC230	Teaching with Multimedia Technology	2
Choose one of the following		
PHIL202	Major Ideas and Issues in Education	3
SOC202	Major Ideas and Issues in Education	3
Professional Education Sequence		6
EDUC340	Literacy Instruction inside Middle and Secondary Schools	3
EDUC381	Curriculum and Methods in the Secondary School: Earth Science	3
Student Teaching and Student Teaching Seminar		8
EDUC446	Supervised Student Teaching, Earth Science, Grades 7-9.	4
EDUC447	Supervised Student Teaching, Earth Science, Grades 10-12.	4

All Geology - Earth Science/Education 7-12 majors must take Chemistry 101 and Mathematics 121 to fulfill the General Education Requirement.

Environmental Health Science (BS)

HEGIS Code I299

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

Matriculation at York College. Completion of 64 college credits, with an overall GPA of 2.0

Major Discipline Requirements*		60.5
Required Basic Science Courses		
BI0201	Biological Principles I	4
BI0202	Biological Principles II	4
BI0465	Microbiology	4.5
CHEM241	Instrumental Methods of Analysis	3
PHYS151	University Physics I	5
Required Health Professions Core Courses		
HPGC101	Basic Concepts of Health Professions	2
HPGC211	Principles of Environmental Health Sciences	2
HPGC212	Principles of Environmental Health Sciences (Lab)	2
Required Environmental Health Science Courses		
CHEM237	Toxicology	3
HPEH340	Pollution Control Technology	3
HPEH343	Environmental Physiology	3
HPEH351	Fundamentals of Air Pollution	4
HPEH420	Water Quality Analysis and Management	3
HPEH426	Solid Waste Management	3
HPEH427	Industrial Hygiene	3
HPEH428	Water Pollution Biology	3
HPEH429	Environmental Management	3
Internship OR Independent Study/Advanced Practicum		
HPEH499	Independent Study	3
Choose one of the Following		
HPEH430	Field Study in Environmental Management	6
HPEH499	Advanced Practicum	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 152 is a prerequisite. For some advanced level science courses, students are highly encouraged to elect these courses as early as possible

Field Study Centers - Environmental Health Science

- 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, Division. Of
Occupational Safety and Health

Physics (BS)

HEGIS Code 1902

Physics is the study of the matter and interactions that shape the universe and determine the properties and behavior of the natural world.

The physics program prepares majors for graduate study in physics or astronomy, as well as for professional schools of medicine, dentistry, and engineering.

In particular, the pre-engineering track within physics prepares students for transfer to advanced undergraduate standing in engineering at City College, CUNY.

The problem-solving skills physics degree recipients acquire also qualifies them for a variety of careers in industry including finance. We aim to ensure that students develop the skills and background to master the underlying physical principles of their discipline.

The physics discipline dedicates itself to making accessible a rigorous, high quality science education to a culturally and ethnically diverse population with widely varying degrees of science proficiency and preparation.

We proudly provide research experiences for undergraduate physics majors through programs sponsored by the NIH, NSF, NASA, and other federal, State and City agencies.

Students interested in majoring in physics or pre-engineering should take University Physics I (Physics 151) and its corequisite Calculus I (Math 121) as early as possible in their studies. Please come to the Dept.. of Earth & Physical Sciences in Room 2F09 for proper advisement.

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 31 I, 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:

- Successful completion of the Physics Major Discipline requirements and a 3.0 average in all Physics courses.
- 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.
- Certification by the Faculty of the Physics Discipline.

Major Discipline Requirements*		57
PHYS151	University Physics I	5
PHYS152	University Physics II	5
PHYS211	Mechanics I	3
PHYS241	Modern Physics	3
PHYS321	Electricity & Magnetism	3
PHYS351	Statistical Mechanics	3
PHYS383	Modern Physics Laboratory	3
PHYS431	Waves and Optics	3
PHYS441	Quantum Mechanics & Atomic Physics	3
CHEM102	Chemical Principles II	5
MATH122	Analytical Geometry & Calculus II	4
MATH221	Analytical Geometry & Calculus III	4
MATH223	Differential Equations	3
MATH333	Linear Algebra	4
Choose 2 Electives - two at 400 level or higher		6
PHYS	-	-
ASTRO	-	-

*All physics majors must take Math 121 and Chem 101 to fulfill General Education requirements.

Physics Education (Certificate Program)

The Science Education program is a multidimensional one, with opportunities in Physics. Its courses function to complement the Education Certification Programs.

The Program houses the Secondary Education Certification programs in Physics and provides/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.

Pre-Engineering (Special Program)**HEGIS Code 1902**

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.

Entering students 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 below 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.

In the planning of the Pre-Engineering program sequences, the following guidelines must be observed:

- Skill courses (such as, accounting, statistics, photography, drawing, musical instruments technique, non-literature language courses) will not be transferable,
- Students may not enroll on a pass/fail basis,
- CCNY does not accept elementary foreign language courses,
- Not required for chemical and electrical engineering,
- Not required for mechanical and electrical engineering,
- Required only for electrical engineering,
- Required for chemical engineering; optional for others,
- Required only for civil engineering,
- Electrical engineers require a linear algebra course containing boolean algebra,

Suggested Program Sequence**Fall Semester**

MATH121	Analytic Geometry and Calculus I	4
PHYS151	University Physics I	5
ENG125	Introduction to College Writing*	4

Suggested Program Sequence**Fall Semester**

	Physical Ed.**	1
	Liberal Arts Elective***	3
MATH122	Analytic Geometry and Calculus II	4
PHYS152	University Physics II	5
CHEM101	Chemical Principles I	5
	Liberal Arts Elective***	3

Summer

	Graphics 1	3
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Fall Semester

MATH221	Analytic Geometry and Calculus III	4
PHYS241	Modern Physics	3
CHEM102	Chemical Principles II	5
CS172	Computer Science I	4
SPCH101	Oral Communication in Contemporary Society	3

Spring

MATH222	Differential Equations	4
MATH333	Linear Algebra	4
PHYS211	Mechanics I	4
	Physical Ed.**	1
GEOL110	Man and the Earth	3
GEOL207	Geologic Techniques	1
	Liberal Arts Electives***	3
MATH333	Linear Algebra	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.

Department of English

Chair: Anderson

Professors: Andretta, Grasso, Hux, Lewis

Associate Professors: Coleman, Cripps, Haller, McGee, Papa Jr., Rooney

Assistant Professors: Bisle, Hall, Hughes, Josephs, Namphy, Robinson

Doctoral Lecturer: Cao Lecturer: Cline, Corcoran, DiToro, Milanes, Wolf

Substitute Lecturer: Blickley, Kirkham, Valinottii

Professor Emeritus: Cooper, Kirkpatrick

English (BA)**HEGIS Code 1501**

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.

This is accomplished 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
I. Required Foundation Courses		
(Normally taken during Sophomore year--6 credits)		
ENG209	Understanding Poetry	3
ENG211	Foundations of Western Literature	3
II. Additional Required Courses (9 credits)		
Normally taken during Sophomore & Junior years)		
ENG318	Shakespeare: The Major Works	3
One course from the following in British Literature		
ENG328	Medieval & Renaissance Literature**	3
ENG333	Restoration & 18th Century Literature**	3
ENG343	The Romantic Period in England**	3
ENG344	Victorian Literature**	3
ENG345	20th Century British Literature**	3
One course from the following in American Literature:		
ENG350	American Voices and Visions I**	3
ENG352	American Voices and Visions II**	3
ENG353	19th Century American Literature**	3
ENG355	20th Century American Literature**	3
ENG356	Studies in an American Literary Genre or Movement**	3
III. Emphasis Courses		
(Normally taken during the Junior & Senior years) Your choice of one of three emphases: (9 credits)		
<i>1. Literature Emphasis</i>		
ENG311	Literary Studies	3
Two other courses in literature at the 300 level or higher**		
<i>2. Language Emphasis</i>		
ENG370	Advanced English Grammar and Style	3
ENG371	History of the English Language	3
ENG375	English Sociolinguistics	3
<i>3. Writing/Journalism Emphasis</i>		
One course from:		
ENG280	Introduction to Journalism	3
ENG286	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: Special Topics*

ENG410	Seminar in English: Special Topics	3
ENG430	Seminar in British Literature	3
ENG450	Seminar in American Literature	3
ENG470	Seminar in the English Language	3
ENG480	Seminar in Writing/Journalism	3

B.A. with Honors in English (Additional 6 credits) Normally taken during the Senior year

Honors Seminars

ENG492	Honors Research in English	3
ENG493	Honors Research in English	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.

English (Minor)

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

English Minor 15

Requirements

ENG209	Understanding Poetry	3
Four additional courses in English language and literature at the 200 level and above, exclusive of English 200		12

Journalism (BA)

HEGIS Code 0602

York's BA in Journalism comes at a time when media is radically changing the whole way news and information are collected and disseminated. The program addresses the growing emphasis on Interactive media delivery methods, ethics and legal issues, and more localized news coverage. But it does not ignore the demand for strong traditional writing and reporting skills. There is currently no other public college in Queens with the bachelor's degree in this discipline.

The Journalism Major offers concentrations in News Writing & Reporting, Broadcast Journalism, and Book & Magazine Publishing. The degree program combines a strong liberal arts and general journalism education with specific training in these areas of media -- all centered right here in New York City. Students majoring in journalism are given at least one hands-on Fieldwork experience.

York's Bachelor of Arts in Journalism also prepares students for more advanced study at the prestigious CUNY Graduate School of Journalism, among other institutions.

I. Required Foundation Courses		6
JOUR280	Introduction to Journalism	3
JOUR281	Introduction to Feature Writing	3
II. Additional Required Courses		18
ENG270	Essentials of English Grammar	3
POL285	Urban Government in the United States	3
JOUR285	Basics of Online Journalism	3
JOUR383	Beat Reporting and Community News Coverage	3
JOUR385	Essentials of Editing	3
JOUR387	Journalism Ethics and Legal Issues	3
III. Electives (12 credits)		12
CT101	Introduction to Video	3
CT240	Studio Television Production	3
ENG286	Introduction to Creative Writing	3
JOUR282	Introduction to Writing Broadcast News	3
JOUR321	Editorial Writing, Commentary and Criticism	3
JOUR322	Advanced Feature Writing	3
JOUR381	Investigative Journalism & In-Depth Reporting	3
JOUR382	Non-Fiction Book Writing	3
JOUR384	Journalism Literature	3
JOUR388	Digital Photojournalism	3
JOUR389	Advanced Reporting and Writing for Broadcast News	3
JOUR399	Special Topics in Journalism	3
IV. Capstone (3-6 credits)		3-6
(Senior status and successful completion of 27 credits toward major required)		
Choose one course from the following:		
JOUR481	Broadcast Journalism Fieldwork	3
JOUR483	News Writing and Reporting Fieldwork	3
JOUR486	Publishing Fieldwork	3
<i>Journalism Majors may take up to 6 credits of Fieldwork (3 credits for each semester of their senior year).</i>		
<i>Senior Project: Seniors will present a cumulative portfolio for review upon completion of fieldwork.</i>		
V. Recommended Elective Concentrations		
Advisors can steer students to specified combinations of electives, depending on students' career goals. Advisors may deem certain elective courses as acceptable for more than one concentration. Special Topics in Journalism courses will be designated for concentrations in consultation with advisors. Choose at least four courses from one of the following concentrations:		
News Writing & Reporting		
JOUR321	Editorial Writing, Commentary and Criticism	3
JOUR322	Advanced Feature Writing	3
JOUR381	Investigative Journalism & In-Depth Reporting	3
JOUR388	Digital Photojournalism	3
JOUR399	Special Topics in Journalism	3

I. Required Foundation Courses		6
Broadcast Journalism		
CT101	Introduction to Video	3
CT240	Studio Television Production	3
JOUR282	Introduction to Writing Broadcast News	3
JOUR389	Advanced Reporting & Writing for Broadcast News	3
JOUR399	Special Topics in Journalism	3
Magazine & Book Publishing		
ENG286	Introduction to Creative Writing	3
JOUR322	Advanced Feature Writing	3
JOUR382	Non-Fiction Book Writing	3
JOUR384	Journalism Literature	3
JOUR399	Special Topics in Journalism	3

Journalism (Minor)

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: News writing & 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.

Requirements		15
JOUR280	Introduction to Journalism	3
JOUR281	Introduction to Feature Writing	3
Additional requirements: Any three JOUR electives chosen by a student in consultation with an advisor from the Journalism Program.		

Creative Writing (Minor)

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.

Creative Writing Minor		15
Requirements		
ENG286	Introduction to Creative Writing	3
One literature elective		3
Three courses in Creative Writing at the 300-level		9

Writing Program (Special Program)

The Writing Program administers the College's upper-division writing requirement and offers Writing 301, 302, and 303.

These 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 complete Writing 301, 302, or 303.

- Writing 301 is recommended for majors in the humanities and social sciences;
- Writing 302 is recommended for majors in the natural sciences, mathematics, and technology;
- Writing 303 is recommended for majors in the professional programs. Students should consult with a major advisor to determine which writing course to take.

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.

WRITE301	(Lib Arts) Research and Writing for the Major	3
WRITE302	(Lib Arts) Research and Writing for the Sciences, Mathematics, and Technology	3
WRITE303	(Lib Arts) Research and Writing for Professional Programs	3

Department of Foreign Languages, Humanities, and ESL

Chair: Ballantyne

Professor : Gutierrez , Rivera-Valdes , Serrano

Associate Professor : Drago, Francois, Meddeb, Vasquez

Assistant Professor : Fernandez Salek , Ghelli, Saad

Lecturer : Barnes, Ramos

Substitute Lecturer: Narcisse

French (BA)

HEGIS Code I 102

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:

- Prepare students to understand, read, speak and write a second language;
- To give them an understanding and appreciation of the literature and civilization particular to that language; and
- 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 a state of the art digital 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 conferences and colloquia, designed not only to enhance the academic program but also to involve high schools of the Queens area and the Jamaica community.

Note: 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.

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 a foreign language with a B average in those courses.

Intermediate Proficiency (Credits 10-14)

Required Courses to be chosen from the following:

- French 101*, 102, 105, 106 or 213.
- Italian 101*, 102, 105, 106 or 230.
- 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.

- 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)

I. Required French Courses		21
FREN210	Introduction to Literary Analysis	3
FREN217	Advanced Composition and Grammar	3
FREN218	Stylistics	3
FREN231	Survey of French Literature I	3
FREN232	Survey of French Literature II	3
FREN334	Literature of the French West Indies	3
FREN335	Literature of French Speaking Africa	3
2. Five additional French and/or Creole Elective courses		15
Six additional credits for Honors Program		
Intensive Elementary French for Health Professions		3

The discipline strongly recommends Humanities 253, (The Haitian Experience in the USA), AAS 341 (The Black Experience in the French Caribbean) and Sociology 235 (Ethnicity).

English as a Second Language (ESL)

(Preparatory Program)

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.

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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 CUNY Language Immersion Program 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.

ESL145	Academic Reading & Writing for Non-native Speakers I	2
ESL150	Academic Reading & Writing for Non-native Speakers II	2

Creole (Minor)

The Minor in Creole is designed for students who wish to master different aspects of the Creole Language.

Required Creole Courses		15
CRE241	Translation I	3
CRE242	Translation II	3
CRE208	Masterpieces in Haitian Creole Literature	3
Two additional Creole Courses		6

Humanities (BA)

HEGIS Code 0000

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

Italian (Minor)

HEGIS Code 0000

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.

Major Discipline Requirements		15
Language (6 credits)		
ITA106	Intermediate Italian II	3
ITAL230	Intermediate Conversation	3
Literature (courses taught in English)		6
Choose 2 courses from the following list:		
WLIT211	The Italian Theater in Translation	3
ITAL353	Italian Culture and Civilization	3
ITAL356	A Major Italian Author in Translation	3
ITAL405	Seminar in Italian Literature	3
Cultural Studies		3
Choose one course from the following list:		
CLDV210	Western Civilization	3
FA292	Early Renaissance Art	3
FA390	High Renaissance/Late 16th Century Art	3
WLIT201	Classical Civilization through Literature	3
HUM250	The Italian Experience in the U.S.	3
POL268	Political Theory II: Machiavelli to Marx	3
HUM230	An Introduction to The History of Opera Across Cultures	3

NOTE: Courses numbered 200 and above are normally conducted entirely in Italian, except when otherwise indicated.

Latin American Studies (BA)

The Latin American Studies program 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.

Concentration in Latin American Studies		21
Required Courses		9
One Spanish language or literature course		3
Two courses chosen from the following:		6
ANTH243	Ethnology And Ethnography Of Major Culture Areas: The Caribbean	3
ANTH244	Ethnology Of Latin America	3
HIST367	Colonial Latin America	3
HIST368	Latin Amer Since 1825	3
POL214	Racial & Ethnic Politics	3
POL250	Latin American Politics	3
POL252	Cuban Politics	3
SOC235	Ethnicity	3
Elective Credits		12
Four courses to be chosen from the following:		
ANTH243	Ethnology And Ethnography Of Major Culture Areas: The Caribbean	3
ANTH244	Ethnology Of Latin America	3
ANTH249	Anthropology Of Puerto Rico	3
ANTH442	Culture & Personality	3
ECON331	Economics Of Underdeveloped Areas	3
FA395	Latin-American Art	3
HIST367	Colonial Latin America	3
HIST368	Latin America Since 1825	3
HUM272	The Latino Experience In The U.S.	3
POL214	Racial & Ethnic Politics	3
POL250	Latin American Politics	3
POL251	Puerto Rican Politics	3
POL252	Cuban Politics	3
SOC235	Ethnicity	3
SPAN201	Hispanic-American Literature From Its Origin Through Modernismo	3
SPAN202	Hispanic-American Literature After Modernismo	3
SPAN203	Hispanic American Short Story	3
SPAN304	Puerto Rican Literature	3
SPAN306	Indigenismo In Twentieth-Century Hispanic-American Fiction	3
SPAN332	Contemporary Hispanic Novel	3
SPAN413	Hispanic Civilization	3

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.

The Latin American Studies program 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.

Latin American Studies (Minor)

HEGIS Code 0000

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
Required Courses		9
HIST368	Latin America since 1825	3
POL250	Latin American Politics	3
Spanish language or literature: One course above the 105 level		3
Choose two courses from the following list		6
ANTH249	Anthropology of Puerto Rico	3
FA395	Latin-American Art	3
HUM272	The Latino Experience in the U.S.	3
CLDV201	Cultures and Societies of the World: Africa, Latin America and the Caribbean	3
SPAN201	Hispanic-American Literature from its Origins through Modernismo	3
SPAN202	Hispanic-American Literature after Modernismo	3
SPAN203	Hispanic-American Short Story	3
SPAN304	Puerto Rican Literature	3
SPAN306	Indigenismo in 20th Century Hispanic-American Fiction	3
SPAN332	The Contemporary Hispanic-American Novel	3
SPAN413	Hispanic Civilization	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.

Puerto Rican Studies (BA)

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.

Puerto Rican Studies (Minor)

Concentration in Puerto Rican Studies		21
One Spanish language or literature course (excluding Spanish 304)		
Two courses chosen from the following:		6
PRST241	Puerto Ricans in New York	3
PRST242	Puerto Rican Society and Culture I	3
PRST243	Puerto Rican Society and Culture II	3
SPAN304	Puerto Rican Literature	3
POL251	Puerto Rican Politics	3
Elective Courses:		
Four courses to be chosen from the following		12
ANTH243	Ethnology and Ethnography of the Caribbean	3
ANTH244	Ethnology and Ethnography of Latin America	3
ANTH249	Anthropology of Puerto Rico	3
ANTH442	Culture and Personality	3
ECON331	Economics of Underdeveloped Areas	3
FA395	Latin-American Art	3
HIST367	Colonial Latin America	3
HIST368	Latin America since 1825	3
HUM272	The Latino Experience in the U.S.	3
POL214	Racial & Ethnic Politics	3
POL250	Latin American Politics	3
POL251	Puerto Rican Politics	3
POL252	Cuban Politics	3
SOC235	Ethnicity	3
SPAN201	Hispanic-American Literature From Its Origin Through Modernismo	3
SPAN202	Hispanic-American Literature after Modernismo	3
SPAN203	Hispanic-American Short Story	3
SPAN304	Puerto Rican Literature	3
SPAN413	Hispanic Civilization	3

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.

*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

Minor Discipline Requirements		15
Required Courses		9
PRST241	Puerto Ricans in New York	3
PRST242	Puerto Rican Society/Culture I	3
Spanish language or literature: 1 course above the 105 level		
Choose two courses from the following list		6
ANTH243	Anthropology of the Caribbean	3
ANTH244	Anthropology of Latin America	3
ANTH249	Anthropology of Puerto Rico	3
FA395	Latin American Art	3
HIST367	Colonial Latin America	3
HIST368	Latin America since 1825	3
HUM272	The Latino Experience in the U.S	3
POL250	Latin American Politics	3
POL251	Puerto Rican Politics	3
POL252	Cuban Politics	3
CLDV201	Culture/Societies of the World: Africa, Latin America and the Caribbean*	3
SPAN201	Hispanic-American Literature from its Origins through Modernismo	3
SPAN202	Hispanic-American Literature after Modernismo	3
SPAN203	Hispanic-American Short Story	3
SPAN304	Puerto Rican Literature	3
SPAN332	The Contemporary Hispanic-American Novel	3

Spanish (BA)

HEGIS Code I 105

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.

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 Pre K-6 Elementary Certification
Bilingual Education Extension (BA)****HEGIS Code 0802**

Spanish/Pre K-6 Elementary Certification		39 42
I. Foundation Courses		11
EDUC 280	Child & Adolescent Development	3
EDUC 281	Fieldwork in Education	1
EDUC 202	Classroom Dynamics	3
EDUC 283	Effective Teaching and Learning	3
MATH 271	Math for Elementary School Teachers	3
AC 101	Introduction to Microcomputers I	0-1
AC 210	Microcomputer Applications	0-1
AC 250	Advanced Microcomputer Applications	0-1
II. Methods Courses		
EDUC 269	Theories-Practices of Bilingual Education	3
EDUC 312	Teaching Languages Arts/Reading I	3
EDUC 317	Teaching Science	3
EDUC 318	Teaching Health and Physical Ed.	2
EDUC 323	Teaching Mathematics	2
EDUC 333	Teaching Social Studies	2
EDUC 345	Teaching ESL	2
EDUC 351	Teaching Language Arts	2
III. Student Teaching		6
EDUC 431	Supervised Student Teaching (PreK-3)	3
EDUC 432	Supervised Student Teaching (4-6)	3

Teaching Certification in Spanish 7-12 (BA)**HEGIS Code I 105.01**

The Program prepares candidates to teach Spanish in Grades 7-12. Candidates who have successfully completed the Adolescence Education in Spanish Program, Grades 7 through 12, are eligible to apply for New York State initial certification in Spanish, Grades 7-12

SOC202	Major Ideas and Issues in Education	3
AC101	Introduction to Microcomputers I	0-1
AC230	Teaching with Multimedia Technology	2
Professional Education Sequence		6
EDUC340	Literacy Instruction inside Middle and Secondary Schools	3
EDUC371	Curriculum and Methods in the Secondary School: Spanish	3
Student Teaching and Student Teaching Seminar		8
EDUC458	Supervised Teaching, Spanish, Grades 7-9	4
EDUC459	Supervised Teaching, Spanish, Grades 10-12	4

Spanish (Minor)**HEGIS Code 0000****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
Required Courses		6
SPAN200	Introduction to Literary Theory and Analysis	3
SPAN209	Composition and Style	3
Choose three courses in Spanish on the 200-level. Students may choose World Lit. 212 in place of one Spanish course on the 200-level.		9

Spanish For Professional Purposes**(Certificate Program)**

This certificate program is designed for students who wish to further their language skills in Spanish in order to use Spanish in their professional activities. Students in this program may combine the certificate with their major, or they may enroll in the College for the express purpose of pursuing this certificate program.

In the case that such a student then decides to pursue a B.A. in Spanish, these courses may then count toward the major.

All students enrolled in the Certificate program must meet matriculation standards of the College, and must fulfill prerequisites for all required and elective courses. Students with transfer credit in Spanish may use no more than 6 transferred credits towards this program.

Required Courses		9
SPAN208	Advanced Grammar	3
SPAN209	Composition and Style	3
SPAN213	Hispanic Cultures in the U.S.	3
SPAN240	Translation I	3
SPAN241	Translation II	3
SPAN242	Commercial Spanish	3
SPAN243	Spanish for the Health Professions	3
SPAN244	Spanish for Social Workers	3
SPAN245	Spanish for the Tourism and Travel Industries	3
SPAN309	Comparative Structures of Spanish and English	3
SPAN310	Spanish Sociolinguistics	3
SPAN419	Seminar on Writing	3

NOTE: Courses numbered 200 and above are normally conducted entirely in Spanish, except when otherwise indicated.

World Literature (Minor)**HEGIS Code 0000**

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.

Minor Requirements		15
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
(Choose two, no more than one from each discipline)		
AAS 220	West African Literature in English	3
AAS 221	East and Southern African Literature	3
French 334	Literature of the French Speaking West Indies	3
French 335	Literature of French Speaking Africa	3
Spanish 301	The Literature of the Spanish Speaking Caribbean up to Modernismo	3
Spanish 302	The Literature of the Spanish Speaking Caribbean After Modernismo	3
Spanish 307	Contemporary Latin American Literature	3
World Literature 201	Literature of the Western World Through the Renaissance	3
World Literature 205	Introduction to Francophone Literature	3
World Literature 206	Introduction to the Literature of the Caribbean	3
World Literature 207	Introduction to the Literature of Latin American	3
III. National Literatures Choose One		3
English 328	Medieval and Renaissance Literature	3
English 345	Twentieth Century British Literature	3
English 350	Early American Literature	3
French 206	Introduction to Haitian Literature	3
Spanish 221	Spanish Literature to 1700	3
Spanish 222	Spanish Literature from 1700	3
World Literature 210	Modern French Literature In Translation	3
World Literature 211	Italian Theatre in Translation	3
World Literature 212	Masterpieces of Spanish Literature in Translation	3
IV. The Literature of Women and Ethnic Minorities		3
(Choose one)		
English 392	Afro-American Literature	3
English 395	Women Writers	3
French 226	French and Francophone Women's Writing	3
Spanish 300	Women Writers from Latin America	3
Spanish 320	Women Writers from Spain	3
World Literature 225	Introduction to Latino Literature in the U.S.	3
World Literature 226	Contemporary Women Writers in World Literature	3

Women's Studies (Minor)

Course Requirements		15
Required Courses		
HUM302	Women's Studies I	3
HUM303	Women's Studies II	3
Choose 3 courses from the following list		9
AAS203	Famous Black Men and Women	3
AAS242	The Black Family	3
ANTH205	Anthropology of Sex	3
ENG395	Women Writers	3
FA325	Women Artists	3
FREN226	French and Francophone Women's Writing	3
HE241	Sex and Sexuality	3
HE316	Family Health	3
HIST205	History of Women in the United States	3
HIST206	Women and the Family in World History	3
PHIL203	Philosophy of Women	3
PSY336	The Psychology of Women	3
SOC247	Family and Kinship	3
SPAN320	Women Writers from Spain	3
WLIT226	Contemporary Women Writers in World Literature	3

The Women's Studies minor is designed to familiarize students with 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.

Department of History and Philosophy

Chair: Fishman

Professor: Parnet, Ruttenberg

Associate Professor: Atangana, Mangru

Assistant Professor: Kirk, White

Doctoral Lecturer Benedito

Lecturer: Neale

Cultural Diversity (Special Program)

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:

- Understand how their own cultures shape and influence their values, attitudes and behaviors,
- Gain an appreciation of the contributions of their own and other cultural groups to our global civilization, and
- 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.

CLDV101	Understanding Cultural Diversity	3
CLDV201	Cultures and Societies of the World: Africa, Latin America and the Caribbean	3
CLDV202	Cultures and Societies of the World: The Far East and South East Asia	3
CLDV203	Cultures and Societies of the World: Asia and the Middle East	3
CLDV210	Western Civilization	3

History (BA)

HEGIS Code 2205

The History faculty seeks to impart knowledge of the societies and cultures of the past both to inform students and help them better understand 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.

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.

Major Discipline Requirements*		36
Choose two of the following Courses		6
HIST201	Beginnings of the American People	3
HIST202	The Emergence of Urban America	3
HIST204	Contemporary America	3
HIST205	History of Women in the United States	3
HIST272	African-American History	3

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.

History (Minor)

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.

Philosophy (BA)

HEGIS Code I509

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
PHIL211	Ancient Philosophy	3
PHIL213	Modern Philosophy	3
8 courses 200-level or above Electives in Philosophy and/or other disciplines' with predominantly Philosophical materials, such as English 364, Speech 203, 231, and Political Science 267-269 may be used to meet some of these 8 requirements.		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.

Philosophy (Minor)

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 their awareness of connections among the arts and sciences.

Interdisciplinary Studies (BA)

HEGIS Code 490I

Major Requirements	36-38
Courses taken to fulfill General Education requirements do not count toward meeting Interdisciplinary	
History, Behavioral Sciences, Social Sciences**	15
200-level or above; at least 2 300-level or above	
Choose one of the following courses	
United States (U.S.) History	
European History	
Choose one of the following courses	
African History	
Asian History	
Caribbean History	
Latin American History	
Choose three courses in Behavioral / Social Sciences	
African American Studies, Anthropology, Economics, Political Science, Psychology, Sociology	
Literature, Art, Music, Theatre***	9
200-level or above; at least one 300-level or above	
British or American Literature (not English 200)	
Literature that is not British or American	
Choose one of the following courses	
Art	
Music	
Theatre	
Natural Science, Mathematics	6-8
2 courses (at 100-level or above)	
Natural Science (Astronomy, Biology, Chemistry, Geology, Physics)	
Mathematics (not Mathematics 271)	
Interdisciplinary	6
2 courses (200-level or above)	
IS400 IS Senior Seminar	
Choose one of the following courses	
Philosophy (200- level or above, but not Phil 202)	
ENG364 The Tragic Vision	3
HUM230 Fairness and Equity	3
HUM235 The Digital Revolution	3
HUM320 Interdisciplinary Honors Seminar	3

POL267	Classical Political Theory I: Plato to Machiavelli	3
POL268	Political Theory II: Machiavelli to Marx	3
POL269	American Political Thought	3
**TE students: 1 U.S. & 1 Caribbean or Latin American History.		
***TE students: 1 U.S. & 1 Caribbean or Latin American Literature.		
*(Taught by different College disciplines)		

This major combines a wide scope of studies with concentration on the skills of textual analysis.

Interdisciplinary 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 philosophical reflections on the assumptions and methods of the arts and sciences.

Requirements in history, social science, literature, and philosophy also ensure a global perspective on what it means to become a liberally educated person. Students are strongly urged to consult a faculty member for advisement. Studies major requirements. Courses can count, however, to meet both Interdisciplinary Studies and Teacher Education requirements.

Department of Math & Computer Science

- Chair: D'Alotto
- Professor: Coen, Dai, Pritchard, Mawyer, Wu
- Associate Professor: Sunmonu
- Assistant Professor: Ameyo, Carta-Gerardino, Gonzalez, Lasser, Nath
- Substitute Assistant Professor: Babaali, Grabarnik
- Lecturer: Bell, Daher, Hill
- Professor Emeritus: Malkevitch, Strassberg

Computer Science (BS)

HEGIS Code 070I

Major Discipline Requirements**		55-56
Major Required Courses		44
CS172	Computer Science I	4
CS291	Computer Science II	4
CS341	Algorithms & Data Structures II	4
CS357	Principles of Programming	4
CS397	Assembly Language Programming	4
CS451	Operating Systems	4
CS457	Introduction to Automata and Computability	4
CS485	Computer Architecture	4
MATH122	Analytic Geometry & Calculus II	4
MATH210	Probability & Statistics	4
MATH225	Discrete Mathematical Structures	4
Major Elective Courses		11 12
Choose Three courses including at least two computer courses.		
CS334	Computer Graphics	3
CS377	Artificial Intelligence	3

Major Discipline Requirements**		55-56
CS381	Software Development	4
CS382	Software Engineering	3
CS391	Object-Oriented Programming	4
CS392	Database Systems	4
CS452	UNIX Operating System	3
CS461	Network Computing	4
CS465	Cryptography and Network Security	3
MATH230	Number Theory	4
MATH243	Combinatorial and Discrete Geometry	3
MATH333	Linear Algebra	4
MATH335	Mathematical Logic	4
MATH336	Modern Algebra	4
MATH395	Numerical Analysis	4

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.

- 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;
- 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.

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*

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.

Mathematics (BA) or (BS)

HEGIS Code 1701

Students majoring in mathematics may develop breadth and depth in theoretical and applied areas of mathematics, including computer mathematic. They may prepare for careers in teaching, industry, or government.

Also recommended are: CS 172 and Mathematics 243, 321 and 410. The Mathematics Department also suggests, but not required, that Actuarial Mathematics students complete at least two examinations provided by the Society of Actuaries before graduation.

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. 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, in one of the required areas of specialty:

***Mathematics electives are Math or CS courses numbered 200 and above. The following courses cannot be credited toward fulfillment of the mathematics major requirements: Math 101, 102, 111, 115, 120, 141, 150, 190, 271, 272, 302, 303; CS 193, 194*

**Mathematics 121 and 184 satisfy the General Education Requirement.*

Required Prerequisites		5
MATH119	Computer Algebra System	1
MATH121	Analytic Geometry and Calculus I	4
MATH184	Analytic Geometry and Calculus I	4

Mathematics 121 and 184 satisfy the General Education Requirement.

Major Discipline Requirements		33
MATH122	Analytic Geometry and Calculus II	4
MATH221	Analytic Geometry and Calculus III	4
MATH333	Linear Algebra	4
MATH336	Modern Algebra	4

One course from:

MATH481	Seminar in Contemporary Mathematics	1
MATH482	Seminar in Contemporary Mathematics	1
MATH483	Seminar in Contemporary Mathematics	1
MATH484	Seminar in Contemporary Mathematics	1
MATH485	Seminar in Contemporary Mathematics	1
MATH486	Seminar in Contemporary Mathematics	1
MATH487	Seminar in Contemporary Mathematics	1
MATH488	Seminar in Contemporary Mathematics	1
MATH489	Seminar in Contemporary Mathematics	1

An additional 4 credits of mathematics or CS electives**

A. Actuarial Mathematics & Operations Research Area:

MATH210	Probability and Statistics I	4
MATH211	Probability and Statistics II	4
MATH313	Operations Research	3

One course from:

MATH481	Seminar in Contemporary Mathematics	1
MATH482	Seminar in Contemporary Mathematics	1
MATH483	Seminar in Contemporary Mathematics	1
MATH484	Seminar in Contemporary Mathematics	1
MATH485	Seminar in Contemporary Mathematics	1
MATH486	Seminar in Contemporary Mathematics	1
MATH487	Seminar in Contemporary Mathematics	1
MATH488	Seminar in Contemporary Mathematics	1
MATH489	Seminar in Contemporary Mathematics	1

B. Applied Mathematics Area:

Required Prerequisites		5
MATH210	Probability and Statistics I	4
MATH211	Probability and Statistics II	4
MATH223	Differential Equations and Dynamical Systems	3
One course from:		
MATH481	Seminar in Contemporary Mathematics	1
MATH482	Seminar in Contemporary Mathematics	1
MATH483	Seminar in Contemporary Mathematics	1
MATH484	Seminar in Contemporary Mathematics	1
MATH485	Seminar in Contemporary Mathematics	1
MATH486	Seminar in Contemporary Mathematics	1
MATH487	Seminar in Contemporary Mathematics	1
MATH488	Seminar in Contemporary Mathematics	1
MATH489	Seminar in Contemporary Mathematics	1
C.. Computing Area:		
MATH225	Discrete Mathematical Structures	4
CS291	Computer Science II	4
CS341	Algorithms & Data Structures II	4
D. General Area:		
MATH223	Differential Equations and Dynamical Systems	3
MATH225	Discrete Mathematical Structures	4
MATH311	Mathematics Methods for Physical Science	4
MATH423	Advanced Calculus I	4
One course from:		
MATH481	Seminar in Contemporary Mathematics	1
MATH482	Seminar in Contemporary Mathematics	1
MATH483	Seminar in Contemporary Mathematics	1
MATH484	Seminar in Contemporary Mathematics	1
MATH485	Seminar in Contemporary Mathematics	1
MATH486	Seminar in Contemporary Mathematics	1
MATH487	Seminar in Contemporary Mathematics	1
MATH488	Seminar in Contemporary Mathematics	1
MATH489	Seminar in Contemporary Mathematics	1
E. Mathematics Education Area:		
MATH210	Probability and Statistics I	4
MATH225	Discrete Mathematical Structures	4
MATH479	History and Philosophy of Mathematics	1
MATH243	Combinatorial and Discrete Geometry	3
MATH244	Geometric Structures	3

Mathematics (Minor)

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
Required Courses		
MATH122	Analytic Geometry and Calculus II *	4
MATH333	Linear Algebra *	4
Plus two other 4-credit mathematics courses at the 200-level or higher which are acceptable for the Mathematics Major		8
<i>Notes: Mathematics 122 has a prerequisite of Math 121 or Math 184 which may be used to satisfy the General Education Requirement.</i>		
<i>* 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.</i>		
<i>No course can be used to satisfy more than one requirement.</i>		
Information Systems Management (BS)		
HEGIS Code 0507		
The Mathematics and Computer Science Department, jointly with the Department of Accounting and Business, sponsors a Bachelor of Science Degree in Information Systems Management (Computer Science).		
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		56-60
Required Courses		
ACC101	Accounting I	4
ACC102	Accounting II	4
BUS301	Management Theory and Practice	3
BUS402	Management Information Systems	3
CS172	Computer Science I	4
CS291	Computer Science II	4
CS292	Introduction to Database Management	4
CS397	Assembly Language Programming	4
ECON102	Elementary Economic Analysis II	3
ECON220	Introduction to Economics Statistics	3
Choose One Of The Following		
MATH141	Discrete Mathematics	3
MATH225	Discrete Mathematical Structures	4
<i>Choose one of the following Tracks</i>		8
Data Communications		
CS261	Data Communication I	4
CS361	Data Communication II	4

Major Discipline Requirements		56-60
Business Technology		
CS371	Business Programming	4
CS391	Object-Oriented Programming	4
Choose any three courses from the following		9-12
COOP111	Work Experience and Seminar I	3
<i>Computer Science any COMPSCI course numbered 200 or above</i>		
Mathematics***		
MATH121	Analytic Geometry and Calculus	4
MATH184	Analytic Geometry and Calculus I	4
MATH122	Analytic Geometry and Calculus II	4
MATH210	Probability and Statistics I	4
MATH243	Combinatorial and Discrete Geometry	3
MATH333	Linear Algebra	4
D Business****		
BUS283	Business Law I	3
BUS321	Business Finance	3
BUS348	Production and Operations Management	3
BUS481	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/CS 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.

Teaching Certification In Mathematics 7-12 (BS)

Students interested in a teaching career and New York State certification should file an application form in the Department of Teacher Education.

The Program prepares candidates to teach Mathematics in grades 7-12. Candidates who successfully completed the requirements for Teacher Education in Mathematics, Grades 7-12 are eligible to apply for New York State initial certification in Mathematics, Grades 7-12.

- Acceptance to the program is contingent upon:
- Enrollment in the Mathematics major;
- A minimum GPA of 2.75;
- The passing of all CUNY assessment examinations;
- 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		26-27
Foundations Sequence		12-13

Education Course Requirements		26-27
EDUC280	Child and Adolescent Development for Teachers	3
EDUC281	Field Experiences in Childhood and Adolescent Development	1
EDUC283	Educational Psychology: Effective Teaching and Learning	3
AC101	Introduction to Microcomputers I	0-1
AC230	Teaching with Multimedia Technology	2
Choose one of the following		
PHIL202	Major Ideas and Issues in Education	3
SOC202	Major Ideas and Issues in Education	3
Professional Education Sequence		6
EDUC340	Literacy Instruction inside Middle and Secondary Schools	3
EDUC373	Curriculum and Methods in the Secondary School: Mathematics	3
Student Teaching and Student Teaching Seminar		8
EDUC440	Supervised Student Teaching, Mathematics, Grades 7-9	4
EDUC441	Supervised Student Teaching, Mathematics, Grades 10-12	4

Department of Performing & Fine Arts

Chair: Adams

Professor: Como, Ernst, Simkin

Associate Professor: Amrhein, Buxenbaum, Schilling

Assistant Professor: Gillespie, Smith Instructor: Zlabinger

Substitute Assistant Professor: Jones, Marion, Metcalf, Marion

Substitute Lecturer: Cockery, Corkery, Jones, Healthierly

Professor Emeritus: Nickolich

Academic Computing (Special Program)

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.

AC101	Introduction to Microcomputers I	1
AC102	Introduction to Microcomputers II	1
AC201	Computer Applications	3
AC230	Teaching with Multimedia Technology	2

Communications Technology (BS)

HEGIS Code 0605

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 Requirements		47-51
1. Required Courses		25-26
AC 101	Introduction to Microcomputers I	0-1
CS 172	Computer Science I	4
CT 101	Introduction to Video	3
CT 201	Foundations in Communications Technology	3
CT 205	Principles of the Moving Image	3
CT 244	Multimedia Sound Production	3
FA 284	Computer Graphics I	3
HIST 373	The History of Technology	3
One course from the following:		
JOUR 282	Introduction to Writing Broadcast News	3
ENG 384	Writing for Electronic Media	3
2. Area Requirements		9-10
Students may select Digital Video Concentration, Computer Graphics Concentration or Systems and Applications Concentration: Digital Video		9
CT 240	Studio Television Production	3
CT 345	Introduction to Motion Graphics	3
CT 355	Documentary Production	3
Computer Graphics		9
CT 360	Principles of Web Publishing	3
CT 381	Advanced Web Design	3
FA 384	Computer Graphics II	3
Systems and Applications		11
CS 261	Data Communications I	4
CT 370	Web Programming	3
MATH 225	Discrete Mathematical Structures	4
3. Major Electives		6-8
Select two courses based on student's concentration from the following:		

Major Requirements		47-51
CS 292	Introduction to Database Management	4
CS 361	Data Communications II	4
CT 380	Webcasting	3
CT 385	Multimedia Interface Design	3
CT 390	Online Communities	3
CT 391	Telecommunications in Transition	3
CT 415 - CT 419	Special Topics – Production	3
CT 425 - CT 429	Special Topics – Seminar	3
SPCH 203	Ethics and the Freedom of Speech	3
SPCH 350	Persuasion and Propaganda in Television	3
4. Senior Requirements		
CT 399	Portfolio Design	1
CT 401	Final Project/Senior Seminar	3
CT 490 - CT 491	Internship	3

Communications Technology (Minor)

Knowledge and skills in communications technology are central to careers in all fields in the technological and Internet-based world.

Communications Technology Minor		16
Required Courses		13
AC101	Introduction to Microcomputers I	1
CT101	Introduction to Video	3
CT201	Foundations in Communications Technology	3
CT244	Multimedia Sound Production	3
FA284	Computer Graphics I*	3
Elective Courses		3
CT205	Principles of the Moving Image	3
CT240	Studio Television Production	3
CT345	Advanced Digital Video	3
CT355	Video Documentary Production	3
CT360	Principles of Web Publishing	3

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.

Students are required to take the prerequisite course Fine Arts 150 as part of their General Education Requirements.

Art History (BA)

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

Major Discipline Requirements		45
FA104	Introduction to Fine Arts	3

Major Discipline Requirements	45
II. Choose Eighteen credits from the following	18
FA290 Ancient Art	3
FA291 Art of Medieval Europe	3
FA292 Early Renaissance Art	3
FA293 Visual Studies of the Urban Environment	3
FA294 Northern Renaissance Art	3
FA296 African Art	3
FA297 History of Still Photography	3
FA298 Twentieth-Century Trends in Photography	3
FA303 Film History: Style & Imagination I	3
FA304 Film History: Style & Imagination II	3
FA325 Women Artists	3
FA390 High Renaissance and Late Sixteenth- Century Art	3
FA391 Baroque and Rococo Art	3
FA392 Nineteenth-Century Art	3
FA393 American Art to 1913	3
FA394 Twentieth-Century Art in the United States	3
FA395 Latin-American Art	3
FA398 Afro-American Art	3
FA402 Media, Culture and the Visual Arts	3
FA475 Special Studies Seminar	3
FA476 Special Studies Seminar: Selected Topics in Art History	3
FA477 Special Studies Seminar: Selected Topics in Art History	3
FA478 Special Studies Seminar: Selected Topics in Art History	3
FA479 Special Studies Seminar: Selected Topics in Art History	3
FA490 Twentieth-Century Art	3
FA492 Twentieth-Century Painting	3
III.	
FA499 Research in Art History	3
FA493 Twentieth-Century Sculpture	3
IV. Nine credits chosen from Art Studio Major Requirements, Sections I, II, and III	9
V. Foreign Language*	6
VI. Electives**	6

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. *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 (BA)

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
I. Six credits chosen from the following:	
FA150 Visual Design: Two-Dimensional	3
FA151 Color	3
FA152 Visual Design: Three-Dimensional	3
II. Six credits chosen from the following:	
FA283 Visual Communication Media I	3
FA284 Computer Graphics I	3
FA381 Photography I	3
FA382 Photography II	3
FA383 Visual Communication Media II	3
FA384 Computer Graphics II	3
FA385 Film Making I	3
FA386 Film Making II	3
FA481 Photography III	3
FA482 Photography IV	3
FA488 Video I	3
FA489 Video II	3
III. Twelve credits chosen from the following:	
FA155 Drawing I	3
FA253 Graphic Design I	3
FA254 Graphic Design II	3
FA258 Graphics I, Printmaking	3
FA264 Painting I	3
FA265 Painting II	3
FA273 Sculpture I	3
FA274 Sculpture II	3
FA284 Computer Graphics I	3

Major Discipline Requirements		45
FA355	Drawing II	3
FA358	Graphics II	3
FA364	Painting III	3
FA365	Painting IV	3
FA373	Sculpture III	3
FA374	Sculpture IV	3
FA384	Computer Graphics II	3
FA444	Advanced Studio I	3
FA445	Advanced Studio II	3
FA455	Advanced Drawing I	3
FA456	Advanced Drawing II	3
FA463	Painting V	3
FA464	Painting VI	3
FA465	Special Studies: Selected Studio Area	3
FA466	Special Studies: Selected Studio Area	3
FA467	Special Studies: Selected Studio Area	3
FA468	Special Studies: Selected Studio Area	3
FA469	Special Studies: Selected Studio Area	3
FA473	Sculpture V	3
FA474	Sculpture VI	3
FA104	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.

Studio Art (Minor)

Required Courses		15
Three credits chosen from the following:		
FA264	Painting 1	3
FA273	Sculpture 1	3
FA155	Drawing 1	3
FA150	Two Dimensional Design	3
FA152	Three Dimensional Design	3
Three credits chosen from the following:		
FA381	Photography 1 (Prereq. Waived)	3
FA284	Computer Graphics 1 (Prereq. Waived)	3
FA488	Video 1 (Prereq. Waived)	3
FA253	Graphic Design 1	3
Three credits chosen from the following:		
FA290	Ancient Art	3
FA291	Art of Medieval Europe	3

Required Courses		15
FA292	Early Renaissance Art	3
FA297	History of Still Photography	3
FA325	Women Artists	3
FA394	Twentieth Century Art in the US	3
FA390	High Renaissance & Late Sixteenth Century	3
FA395	Latin American Art	3
FA398	Afro-American Art	3
FA296	African Art	3
FA402	Media, Culture and the Visual Arts	3
FA490	Twentieth Century Art	3
Fine Arts Electives		6

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.

Physics 151 and Physics 152. Geology 140 may be substituted for Geology 110 and 207.

*** 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.*

Music (BA)

HEGIS Code 1005

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 or commercial music should consult the Coordinator of the Music Discipline for full particulars.

All music majors must register for a performance ensemble each semester for 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.

Major Discipline Requirements		33
MUS111	Basic Music Theory II*	3
MUS146	Jazz Improvisation I	2
MUS210	Intermediate Musicianship I	2
MUS220	Harmony and Counterpoint I	3
MUS246	Jazz Improvisation II	2
MUS291	Keyboard Harmony	1
MUS310	Advanced Musicianship I	2
MUS320	Harmony and Counterpoint III	3
MUS350	History of Music I (WI)	3
MUS351	History of Music II	3
MUS420	Instrumentation	3
MUS425	Composition I	3
MUS461	Jazz Style and Techniques	3
One of the following Music courses		
MUS250	African-American Music in the United States	3
MUS253	History of Jazz	3
MUS270	Introduction to Ethnomusicology (WI)	3
One of the following Music courses		
MUS225	Computer Music I	3
MUS422	Conducting	3

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, 425, and 461.
- In addition, students are urged to select their non-music electives from those courses that will have special relevance to commercial music.

Students who elect to concentrate in jazz studies are advised to select among the following music electives:

- Music 146, 246, 250, 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.

Concentrations of Study in Music

Concentrations are based on appropriate course selection in consultation with a Faculty advisor.

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 Music 225. Prereq: Music 110 or placement by examination.

*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.

Music (Minor)

Minor Requirements		15
I. Required Courses		9
Mus 111*	Basic Music Theory II	3
Mus 141	Class Instruction Piano	1
Mus 210	Ear Training I	2
Mus 220	Music Theory III.	3
Choose 2 courses from the following:		6
Mus 253	History of Jazz	3
Mus 270	Introduction to Ethnomusicology (WI)	3
Mus 350	WI History of Music I	3
Mus 351	History of Music II	3
Mus 420	Instrumentation	3
Mus 422	Conducting	3
Mus 425	Composition	3
Mus 461	Jazz Style and Techniques	3

Speech Communication and Theatre Arts (BA)

HEGIS Code 1506

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

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Major Discipline Requirements		33
Required Speech Communication & Theatre Arts Courses		12
SPCH182	Voice and Diction	3
TA210	History of Theatre	3
TA211	Basic Acting	3
SPCH303	Ethics & the Freedom of Speech	3
Speech Communication/Theatre Arts		
Choose one of the following		
SPCH490	Independent Research	3
TA490	Independent Research	3
III. Speech Communication/Theatre Arts Electives		18

Students must concentrate in either Speech Communication or in Theatre Arts and complete at least twelve of their eighteen elective credits in the Concentration that they have declared. (A total of 15 credits of Speech Comm/TA coursework must be at the 300-level or higher.)

NOTE: Although Speech Communication students may take as much Theatre Arts practica as they please, no more than 6 credits of Theatre Arts practica may be applied toward the fulfillment of the Speech Communication Concentration; however, Theatre Arts students may apply 9 credits of Theatre Arts Practica toward the fulfillment of the Theatre Arts Concentration.

Theatre Arts practica courses currently include TA215-19.*All Speech Comm/TA majors must take SPCH 101 as a Prereq for completion of the Major.

Majors in Speech Communication/Theatre Arts must fulfill their General Education Requirements in a discipline other than their major.

Theatre Arts (Minor)

Minor Design for Theatre Arts		15
Required Courses		6
TA110	Introduction to the Theatre	3
TA215	Studies in Theatre Practices I	3
Choose 3 courses from the following:		
TA112	Voice and Stage Movement for Actors I	3
TA114	Stagecraft I	3
TA115	Stagecraft II	3
SPCH160	Fundamentals of Oral Interpretation: Prose and Poetry	3
SPCH182	Voice and Diction	3
TA211	Basic Acting	3
TA212	Scene Study	3
TA261	Intermediate Oral Interpretation (Drama)	3
TA311	Fundamentals of Directing	3
TA314	Computer Design for the Stage	3
TA316	Performance for Television	3
TA317	Theatrical Criticism	3
TA390	Special Studies Seminar I	3
TA411	History of Avant-Garde Performance	3
TA490	Independent Research	3
One Course may be chosen from below to satisfy requirement		
ENG318	Shakespeare: The Major Works	3
ENG364	The Tragic Vision	3
ENG365	The Comic Vision	3
SPCH390	Special Studies Seminar I	3

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.

Note: Courses chosen for the minor may not be used to satisfy the general education requirement.

School of Business and Information Systems

The School of Business and Information Systems introduces students to all of the fundamental business disciplines, then allows them a wide range of choices when selecting their major field of study.

These major fields include Accounting, Marketing, Finance, Human Resource Management, and Business Information Systems. The School also offers a unique program in Aviation Management.

The School's faculty are drawn from the above disciplines, and represent a blend of academic preparation and managerial experience.

The School's goal is to provide New York with a cadre of technically prepared, practically grounded, and ethically aware young people, who will in time, assume leadership positions in the city's businesses and industries.

The aims of the School include:

- To graduate students who are not only skilled in business disciplines, but also broadly educated in the traditional liberal arts and sciences;
- To contribute to the ever-growing body of research in business disciplines that seeks to identify best practices;
- To contribute to the vibrant business community in the Borough of Queens, and throughout New York City.

The Dean (Acting) of the School of Business and Information Systems is Dr. Harry Rosen.

Department of Accounting and Finance

Chair: Kranache

Professor: Bharosay, Gellis

Associate Professor: Ruiz

Assistant Professor: Ahsan, Clovey, Stern, Hsu

Substitute Assistant Professor: Gary

Accounting (BS)

HEGIS Code 0502

The Accounting faculty aims to provide students with 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.

Major Discipline Requirements		60
ACC101	Accounting I. (Formerly Economics 182)	4
ACC102	Accounting II. (Formerly Economics 183)	4
ACC201	Intermediate Accounting I. (Formerly Economics 280)	3
ACC202	Intermediate Accounting II. (Formerly Economics 286)	3
ACC301	Advanced Financial Accounting	4
ACC335	Auditing I	3
ACC345	Cost Accounting I	3
ACC350	Income Taxation	3
BUS201	Computer Applications in Business	3
BUS283	Business Law I	3
BUS284	Business Law II	3
BUS321	Business Finance	3
ECON102	Introduction to Microeconomics	3
ECON220	Introduction to Economic Statistics	3
ECON311	Money and Banking	3
Accounting electives		6
Plus elective credits from Accounting, Business, Economics or Marketing*		6

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.

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

Notes:

Physical Education 150 is temporarily waived from the General Education Requirements for Accounting Majors.

- 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.
- All Accounting majors must take Economics 103 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 here all General Education requirements have been waived.
- Students who present a course in Income Taxation may substitute Accounting 351 (Advanced Income Taxation) for Income Taxation (Accounting 350).
- All Accounting majors must complete a minimum of 60 Liberal Arts credits inclusive of the Core Requirements.

Computer Applications in Business (Minor)

Required Courses		15 - 17
BUS201	Computer Applications in Business	3
Four courses chosen from the following		
ACC210	Computer Applications in Accounting	3
BUS202	Introduction to Management Information Systems	3
BUS402	Management Information Systems	3
BUS303	Office Information Systems	3
CS497	Advanced Topics in Computing/Information Systems Management	3
MATH190	Computers in Modern Society	4

Mortgage Finance (Certificate Program)

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
BUS301	Management Theory and Practice	3
BUS325	Introduction to Mortgage Banking	3
BUS326	Computer Applications in Mortgage Finance	3
BUS328	Fair Housing and Fair Lending Laws	3
ECON311	Money and Banking	3
Elective Courses - Choose one course from the following		
BUS426	Lending Programs for Affordable Housing	3
ECON333	Urban Economics	3

Mortgage Finance (Minor)

Required Courses		15
All of the following courses:		
BUS325	Introduction to Mortgage Banking	3
BUS326	Computer Applications in Mortgage Finance	3
BUS328	Fair Housing and Fair Lending Laws	3
ECON311	Money and Banking	3
Chose one course from the following:		
BUS426	Lending Programs for Affordable Housing	3
ECON333	Urban Economics	3

Economics (BA)

HEGIS Code 2204

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.

Major Discipline Requirements		30
ECON101	Elementary Economic Analysis I	3
ECON102	Elementary Economic Analysis	3
ECON200	Microeconomic Analysis	3
ECON210	Macroeconomic Analysis	3
ECON220	Introduction to Economic Statistics	3
ECON311	Money and Banking	3
Electives in Economics, Business, Accounting or Marketing*		9

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

*Business 327 and Business 425 may not be used to satisfy these elective requirements. 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, 340, 360, and 420

Marketing (BS)

HEGIS Code 0509

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*

All Marketing Majors must take Mathematics I 15 and Economics 101 toward fulfillment of General Education or Degree Requirements. At least 15 credits in major discipline requirements must be taken at York College.

ACC101	Accounting I	4
Major Discipline Requirements		48
ACC102	Accounting II	4
BUS283	Business Law I	3
BUS301	Management Theory and Practice	3
BUS321	Business Finance	3
ECON102	Elementary Economic Analysis II	3
ECON220	Introduction to Economic Statistics	3
MKT341	Introduction to Marketing	3
MKT343	Advertising and Public Relations	3
MKT347	Consumer Behavior	3
MKT483	Marketing Management	3
Choose nine credits from the following		9
BUS349	Small Business Management	3
BUS351	Sales Management	3
MKT342	Marketing Research	3
MKT344	Retail Management	3
MKT345	Principles of Selling	3
MKT346	International Marketing	3
MKT350	Industrial Marketing	3
MKT352	Direct Marketing	3
PSY251	Organizational Behavior	3
PSY253	Industrial/Organizational Psychology	3

Department of Business & Economics

Chair : Althaus

Associate Professor : Ou, Perry , Schachter,

Assistant Professor: Oladipo ,Sadighian

Lecturer : Bercovitz, Gandy, Johnson, Forrester

Aviation Management (BS)

HEGIS Code 0569

The Aviation Management degree program offers students the opportunity to prepare for management careers in the aviation industry. The program includes the necessary technical and managerial skills needed in the aviation field while insuring that the student receives a broad-based liberal arts background. Key focus areas include: aviation security, safety, operations, and airport planning and management.

The Aviation Management program offers several opportunities for students to gain practical experience through a variety of aviation industry internships.

Aviation Management graduates will have the qualifications for employment with airports, airlines, banks, insurance companies, U.S Customs, travel agencies and the Federal Aviation Administration

Required Courses		44
ACC101	Accounting I	4
ACC102	Accounting II	4
BUS 230	Introduction to the Aviation Business	3
BUS235	Airport Planning and Management	3
BUS283	Business Law I	3
BUS321	Business Finance	3
BUS330	Aviation Operations	3
BUS335	Case Studies in Aviation Financial Management	3
ECON102	Elementary Economic Analysis II	3
ECON220	Introduction to Economic Statistics	3
MKT353	Aviation Marketing and Economics	3
POL228	Public Administration in the Political Setting	3
POL233	Introduction to Aviation Safety and Security	3
POL402	Aviation Policy Seminar	3
Electives	(One course to be chosen from each group)	9
Group I		
BUS202	Introduction to Management Information Systems	3
BUS236	Air Cargo Management	3
BUS237	Introduction to Emergency Planning and Management	3
BUS392	Aviation Internship in the Private Sector	3
GEOL282	Weather and Climate	3
Group II		
POL241	Basic Factors in International Politics	3
POL309	Aviation Law	3
POL392	Aviation Internship in the Public Sector	3
Group III		
PSY328	Human Factors Psychology	3
PSY219	Psychology of Terrorism	3
SOC220	Social Research I	3

Aviation Management (Certificate Program)

Required Courses		18
BUS301	Management Theory and Practice	3
BUS 230	Introduction to the Aviation Business	3
BUS235	Airport Planning and Management	3
BUS330	Aviation Operations	3
MKT353	Aviation Marketing and Economics	3
Elective Courses - Choose one course from the following:		
BUS312	Staff Supervision and Employee Relations	3
PSY251	Organizational Behavior	3
SOC238	Industrial Sociology	3

Business Administration (BS) HEGIS Code 0506

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 skills they may need in pursuing their careers.

Business Administration Required Courses*		47 - 57
Co-op Requirements*		
COOP101	Orientation 1 or equivalent (See Note 3)	1
COOP111	Work Experience and Seminar or equivalent	3
Business Major Requirements		
ACC101	Accounting I	4
ACC102	Accounting II	4
BUS201	Computer Applications in Business	3
BUS283	Business Law I	3
BUS301	Management Theory & Practice	3
BUS311	Personnel Management	3
BUS321	Business Finance	3
BUS348	Production/Operations Management	3
BUS481	Business Policy	3
ECON102	Elementary Economic Analysis II	3
ECON220	Introduction to Economic Statistics	3
MKT341	Introduction to Marketing	3
Area I. Management and Human Resources		
ACC238	Fraud Examination	3
BUS312	Staff Supervision and Employee Relations	3
BUS315	Health Care Management	3
BUS349	Small Business Management	3
BUS361	Wage and Salary Administration	3
ECON361	Economics of Trade Unions	3
MKT351	Sales Management	3
PSY253	Industrial and Organizational Psychology	3
PSY255	Psych. Of Advertising and Marketing Communications	3
SOC238	Industrial Sociology	3
Area 2. Finance and International Business		
ACC238	Fraud Examination	3
ACC345	Cost Accounting I	3
BUS302	International Business	3
BUS322	Investment and Security Analysis	3
BUS324	International Financial Markets	3
BUS325	Introduction to Mortgage Banking	3
BUS402	Management Information Systems	3
ECON311	Money and Banking	3
ECON340	International Economics	3
ECON420	Advanced Economics Statistics	3
MKT346	International Marketing	3
Area 3. Computer Applications in Business		
ACC210	Computer Applications in Accounting	3
BUS202	Introduction to Management Information Systems	3

Business Administration Required Courses*		47 - 57
BUS303	Office Information Systems	3
BUS402	Management Information Systems	3
CS491	Advanced Topics in Computing/Information Systems Management	2
CS492	Advanced Topics in Computing/Information Systems Management	2
CS493	Advanced Topics in Computing/Information Systems Management	3
CS494	Advanced Topics in Computing/Information Systems Management	3
CS495	Advanced Topics in Computing/Information Systems Management	3
CS496	Advanced Topics in Computing/Information Systems Management	3
CS497	Advanced Topics in Computing/Information Systems Management	3
CS498	Advanced Topics in Computing/Information Systems Management	3
CS499	Advanced Topics in Computing/Information Systems Management	3
MATH190	Computers in Modern Society	4

Area 4. Mortgage Finance Specialization

Required Courses:

BUS325	Introduction to Mortgage Banking	3
BUS326	Computer Applications in Mortgage Financing	3
BUS328	Fair Housing and Fair Lending Laws	3
ECON311	Money and Banking	3

Elective courses: Choose one course from the following

BUS426	Lending Programs for Affordable Housing	3
ECON333	Urban Economics	3

Area 5. Aviation Management

ACC238	Fraud Examination	3
BUS 230	Introduction to the Aviation Business	3
BUS235	Airport Planning & Mgmt	3
BUS330	Aviation Operations	3
MKT353	Aviation Marketing & Economics	3

Other Requirements: Three courses (9-10 credits) chosen from one of Areas 1, 2 or 3, or five courses (15 credits) from Area 4, or four courses (12 credits) from Area 5.

* Notes: All Business Majors must include Mathematics 115 and Economics 101 toward fulfillments of General Education or Degree Requirements. Those who choose the Mortgage Banking Specialization should arrange to fulfill their Co-op Work Experience in the mortgage banking industry.

Co-op is required unless student can demonstrate sufficient work experience. 60 credits in Liberal Arts are required.

School of Health and Behavioral Sciences

The School of Health and Behavioral Sciences houses six academic departments: Behavioral Sciences, Health and Physical Education, Health Professions, Occupational Therapy, Social Sciences and Teacher Education.

It also is home of many of York College's professional programs, including: K-12 Health Education, K-12 Physical Education, Medical Technology, Nursing, Physician Assistant, Occupational Therapy, Social Work and Teacher Education.

The School also houses York's only graduate degree, the B.S./M.S. in Occupational Therapy.

The professional programs at York College provide a diverse student population with opportunities to gain the knowledge, skills and attitudes to succeed in a wide variety of professions.

Our programs have received national recognition and professional accreditation.

We are committed to supportive learning environments, qualified faculty, and innovative curricula.

Students are given ample clinical experiences early in their program of study to support the application of learning in the professions. The **aims of the School include:**

- To offer students a solid academic experience in a chosen major that is grounded in current research and practice.
- To provide students with opportunities for mentoring, research, and internships
- To ensure professional programs maintain good standing with accrediting bodies and are nationally recognized.
- To nurture faculty ideas for advancing excellence in teaching, research and service.

The Dean (Acting) of the School of Health & Behavioral Sciences is Dr. Dana Fusco.

Department of Behavioral Sciences

Chair: Chirico

Professor: Majerovitz

Associate Professor: Dyer, Escamilla, Flynn, Swoboda, Villegas

Assistant Professor: Ashton, Duncan, Harper, Mokruie, Preiser, Sharpe

Lecturer: Austin, Smickle

Distinguished Lecturer: Daniels

Professor Emeritus: Ostholm

Political Science (BA)

HEGIS Code 2207

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, pre law, comparative government, international relations and area studies.

Political Science Major Discipline Requirements		30
Required Courses		
POL103	Politics and Government in the United States	3
POL202	Comparative Politics*	3
POL241	Basic Factors in International Politics**	3
POL285	Urban Government in United States**	3
One course chosen from the following: ***		
POL267	Classical Political Theory I: Plato to Machiavelli	3
POL268	Political Theory II: Machiavelli to Marx	3
POL269	American Political Thought	3
One course chosen from the following: ***		
POL340	American Capitalism: Political and Social Aspects	3
POL367	Contemporary Political Theory	3
Elective Political Science courses		12

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.

Note: Electives must include a 300 or 400 level course, and should be chosen in consultation with a Political Science advisor.

* Offered every fall** Offered every spring.

***One Level II or Level III course is offered each semester.

You may include a maximum of 4 credits from internship or independent study courses.

Political Science (Minor)

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 to determine an appropriate minor.

Political Science Minor Requirements		15
Required Courses		6
POL103	Politics and Government in the United States *	3
POL202	Comparative Politics	3
Choose one		3
POL241	Basic Factors in International Politics	3
POL285	Urban Government in the United States	3
Choose one		3
POL267	Classical Political Theory I: Plato to Machiavelli	3
POL268	Political Theory II: Machiavelli to Marx	3
POL269	American Political Thought	3
Choose one		3
POL340	American Capitalism: Political and Social Aspects	3
POL367	Contemporary Political Theory	3

* This course may be used to fill the General Education Requirement or the minor requirement.

Public Administration (Minor)

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.

Aviation Policy (Minor)

Total credits Required for the Minor in Aviation Policy 15 * Students are required to complete Political Science 103 and Economics 102 as part of general education requirements

Pre-Law Studies within Political Science (Minor)

Required Courses		15 - 16
POL226	U.S. Supreme Court	3
POL275	Introduction to Law	4
PHIL103	Introduction to Philosophy*	3
Choose one of the following		
POL305	Selected Legal Topics	3
POL306	Selected Legal Topics	3
PHIL121	Beginning Deductive Logic	3
Additional Required Course (choose one)		
PHIL356	Philosophy of Law	3
POL310	Legal Research	3
POL322	The Courts and Public Policy	3

Labor Studies within Political Science (Minor)

Required Courses		15
Demography and Social Strata		3
POL214	Racial and Ethnic Politics	3
SOC235	Ethnicity	3
HIST274	The American Ethnic Experience	3
AAS285	The Urbanization of the American Black	3
Socio-Political Context of the Work Place: Office and Factory		3
POL214	Racial and Ethnic Politics	3
POL285	Urban Government in the United States	3
SOC238	Industrial Sociology	3
SOC239	Sociology of Work	3
AAS331	The Civil Rights Movement in America	3
HIST273	The American Worker	3
Theories of the Working Class and Trade Unionism		3
POL340	American Capitalism: Political and Social Aspects	3
POL367	Contemporary Political Theory	3
ECON361	Economics of Trade Unions and Collective Bargaining in the US	3
HIST333	Nineteenth Century Europe	3
American Labor and American Business		6
POL311	Advanced Topics in Pol Sci.	3
POL312	Advanced Topics in Pol Sci.	3
POL340	American Capitalism: Political And Social Aspects	3
POL367	Contemporary Political Theory	3
ECON360	Labor Economics	3
AAS354	The Role of Blacks in the American Economy	3

Psychology (BA)

HEGIS Code 2001

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.

Note: Group III Courses: The courses in Group II may be used as electives. If, for example, you take Psychology 319 to fulfill Area A, you can use Psychology 321 as an elective in Psychology.

Be careful to check the prerequisites for each elective course you choose.

Psychology (Minor)

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
PSY102	Introductory Psychology	3
<i>Four additional courses in Psychology (Note: At least 2 of these courses must be at the 300-level or higher.)</i>		12

Important Note: If your major requires Psychology courses, these classes cannot be counted toward the Psychology Minor.

Political Science/Cross-Cultural Studies For Psychology (Minor)

HEGIS Code 0000

This sequence of courses is designed to acquaint students with the application of psychological theory to understanding different cultures and subcultures, and to the way social, cultural, and political organizations and institutions shape human behavior.

Required Courses		15
ANTH442	Culture and Personality	3
POL214	Racial and Ethnic Politics	3
PSY332	Social Psychology	3
PSY333	Black Psychology	3
PSY236	Psychology of Women	3

Note: If you are a Psychology Major, you must take Psychology 338 to fulfill the major and Psychology 332 to fulfill the minor. The same course cannot be used to fulfill two separate requirements.

Cognitive Neuroscience (Minor)

Required Courses		15
BI0334	Comparative Physiology	4.5
PHIL241	Philosophical Psychology	3
PSY362	Physiological Psychology	3
PSY319	Human Cognition Laboratory	3
or		
PSY370	Psychology of Consciousness	3
PSY490	Independent Study and Experimental Research	3

Note: If you are a Psychology Major, you must take Psychology 313 to fulfill the major and Psychology 362 to fulfill the minor. The same course cannot be used to fulfill two areas.

International Relations (Minor)

Required Courses*	15
Students must complete the following courses	9
POL241 Basic Factors in International Politics	3
POL346 American Foreign Policy	3
POL453 Seminar in Global Change	3
Choose two courses from the following (6 credits)	
POL250 Latin American Politics	3
POL256 African Politics	3
POL257 Asian Politics	3
POL258 Middle East Politics	3

*Students are required to complete either Political Science 101 or Political Science 103 in partial fulfillment of General Education Requirements.

Department of Health Professions

Chair: Brugna

Associate Professor: Dill, Graffeo, Jackson, Murray, Davidson, Grant

Assistant Professor: Fonti, Glodstein, Jackson, Shearin-Patterson, Williams

Doctoral Lecturer: Rampersaud

Medical Technology (BS)**HEGIS Code 1223**

The programs offered by the Department of Health Professions aim to prepare students for various health careers that can help address health disparities in the community. Students may elect careers in medical technology, nursing, 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.

Admission to Health Professions Programs

Admission to each program takes place at the freshman, upper sophomore or lower junior level. Acceptance is based on matriculation at York College, completion of a minimum number of credits, specific prerequisite coursework and attainment of a minimum grade point average, and approval of the discipline Admissions Committee (see each discipline for details). Applicants are not considered "accepted" until they receive a letter from the respective department 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 fieldwork. 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 further information.

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.

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:

- Junior Standing
- Overall GPA of at least 2.3
- 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 151
- Matriculation at York

Major Discipline Requirements 7 5 - 77**Required Basic Science Courses** 33

BIO201 Principles I	4
BIO202 Principles II	4
BIO465 Microbiology	4.5
BIO466 Immunology	4.5
CHEM102 Chemical Principles II	5
CHEM232 Techniques of Organic Chemistry I or	2
CHEM235 Organic Lab	2
CHEM237 Toxicology	3
CHEM241 Instrumental Methods of Analysis	3

Choose one of the following

CHEM230 Essentials of Organic Chemistry	3
CHEM231 Organic Chemistry I	3

Required Medical Technology Courses 24

HPGC101 Basic Concepts of Health Professions	2
HPMT330 Human Anatomy and Physiology for Medical Technologists	3
HPMT332 Tissue Techniques	2
HPMT341 Clinical Immuno-Serology Techniques	1
HPMT343 Immuno-Hematology and Blood Banking	3
HPMT351 Clinical Chemistry	4
HPMT352 Hematology / Body Fluids	3
HPMT353 Medical Parasitology	3
HPMT354 Coagulation	3
Field Study Requirements: Choose Field Study Internship or Non-Field Study	18-20
Field Study Internship	18
HPMT457 Clinical Internship I	9
HPMT458 Clinical Internship II	9

Non-Field Study

Select Ten Credits Required from Group A and Select at least ten credits from Group B. 20

Group A

Major Discipline Requirements		7 5 - 77
CHEM233	Organic II	3
CHEM234	Organic Lab II	2
PHYS151	University Physics I	5
Group B		
BIO307	Biostatistics	3
BIO334	Comparative Physiology	4.5
BIO344	Molecular & General Genetics	4
BIO412	Biochemistry	3
HPGC201	Principles of Epidemiology	3

Retention in the Medical Technology Program

To be retained in the program, students must:

Earn a minimum grade of "C." in each Medical Technology course. No Medical Technology course may be taken more than twice.

Maintain a GPA of at least 2.0 in Medical Technology courses and overall. 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:

- Have completed all required Medical Technology courses.
- Maintain a GPA of at least 2.3 in Medical Technology courses and overall.
- Have the written permission of the Medical Technology Director.

Eligible students must apply for field work placement to the Medical Technology Director 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 unless a non-internship track is chosen.

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 Hospitals Available for Student Internships

- Jacobi Medical Center, Bronx, NY
- North Central Hospital, Bronx, NY
- Lincoln Hospital Medical Center, Bronx, NY
- State Univ. Health Science Center, Brooklyn, NY
- New York Hospital of Queens, Flushing, NY
- Core-North Shore LIJ Health Systems, Lake Success, NY
- Long Island Jewish Medical Center, New Hyde Park, NY
- North Shore University Hospital, Manhasset, NY

Nursing (BS)

HEGIS Code 1203

The Baccalaureate Nursing Program consists of two tracks:

- A generic program providing all general education and professional coursework to enable a student to earn a baccalaureate degree in Nursing and qualify to take the National Council Licensure Examination for Registered Nurses (NCLEX-RN).
- A degree completion program exclusively designed 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 primary level intervention (prevention of illness/disease and maintenance of health).

The purpose of this program is to:

- Prepare a professional practitioner of nursing
- Provide a foundation for graduate study in nursing

Eligibility for Screening into the Generic Nursing Program

Students must meet the requirements for admission to York College, including the standards of proficiency in the basic skills areas of reading, writing and mathematics. Students who pass the CUNY assessment tests are eligible to enroll in General Education courses and additional prerequisite courses as listed:

Admission Criteria

- Completion of the 56 required General Education and prerequisite credits
- A minimum grade point average (GPA) of 3.0 in all General Education and prerequisite credits.
- A grade of "C." or better in each General Education and Prerequisite course.
- Completion of all required York College Writing Intensive (WI) Courses. Professional Liability (Malpractice) Insurance (prior to start of first clinical course).
- Current Basic Life Support Certificate (BCLS).

Nursing (B.S.) General Education Requirements

ENG125	Introduction to College Writing	4
SPCH101	Oral Communication in Contemporary Society	3
SPAN243	Spanish for the Health Professions	3
CLDV201	Cultures and Societies of the World: Africa, Latin America and the Caribbean	3
CLDV202	Cultures and Societies of the World: The Far East and South East Asia	3
CLDV203	Cultures and Societies of the World: Asia and the Middle East	3
CLDV210	Cultures and Societies of the World: Western Civilization	3
WRITE303	Research and Writing for Professional Programs	3
Humanities		6
ENG200	Understanding Literature	3
Choose one of the following		
PHIL102	Beginning Informal Logic	3

Nursing (B.S.) General Education Requirements		
PHIL103	Introduction to Philosophy	3
PHIL121	Beginning Deductive Logic	3
Behavioral Sciences		6
PSY102	Introduction to Psychology	3
Choose one of the following		
ANTH101	Introduction to Cultural Anthropology	3
SOC101	Introductory Sociology	3
Mathematics		4
MATH111	Statistics	4
Natural Sciences Nursing major- five credits as stipulated by major discipline.		5
CHEM105	Essentials of College Chemistry***	5
Additional Requirements for screening and progression		16
PSY214	Lifespan Development for the Health Professions	3
BIO234	Anatomy & Physiology I	4
BIO235	Anatomy & Physiology II	4
BIO265	Microbiology	3
BIO382	Nutrition	2
CHEM105	Essentials of College Chemistry	5
Major Discipline Requirements		64
NURS101	Nursing Process and Pharmacology	2
NURS202	Nursing Process and Pharmacotherapeutics	3
NURS203	Health Assessment -Wellness Promotion	5
NURS210	Fundamentals of Nursing Practice	5
NURS301	Values in Transition: Perspectives of Professional Nursing (WI)	4
NURS310	Nursing Process: Nursing Care of the Child-bearing Client / Family System	5
NURS314	Management & Leadership in Professional Nursing / Client Intersystem	3
NURS320	Deviations in Physiological Function I: Nursing Intervention for the Adult/Family client system	8
NURS340	Nursing Care of Children: Infancy to Adolescence	5
NURS406	Professional Nurse-Societal and Community Client Intersystem: Emergent Evolution	3
NURS407	Research in Professional Nursing Practice (WI)	3
NURS415	Professional Nurse-Family and Community Intersystems (Generic)	6
NURS420	Deviations in Physiologic Function II: Nursing Interventions for the Adult/Family client system	8
NURS430	Nurse-Client Intersystem: Psychiatric/Mental Health Nursing	4
Support Course		3
BIO336	Pathophysiology	3

** 100 level Cultural Diversity course is waived for nursing majors. Cultural Diversity is a curriculum thread that is embedded in every nursing course, as is evident in the course syllabi.

*** Psychology 214 is also a support course which is a requirement for screening and progression.

**** Credits for Chemistry are not counted in this grouping as they are counted to fulfill General Education requirements in the Natural Sciences.

Credit by validation examination may be earned by: Excelsior College and the College Level Examination Program (CLEP). For information pertaining to these examinations contact:

Excelsior College (Regents College) 7 Columbia Circle Albany, New York 12203 Telephone: (518) 464-8500

College Level Examination Program (CLEP) P.O. Box 6600 Princeton, NJ 08541 – 6600 Telephone: (800) 257-9558

Information pertaining to NLNAC Accrediting Agency:

National League for Nursing Accrediting Commission (NLNAC) 61 Broadway 33rd Floor New York, NY 10006 Telephone: (800) 669-1656, Ext. 153 Fax: (212) 812-0390 Website: www.NLNAC.ORG

Articulation Agreements

York College RN – BACCALAUREATE Nursing Program has articulation agreements with the Nursing Programs at the following colleges:

- Queensborough Community College/ CUNY
- LaGuardia Community College/CUNY

For progression to the Nursing major, students must submit a completed application (deadline: March 1st of each year).

Application forms may be obtained from the Nursing Program office. Students who are enrolled in courses, leading to the fulfillment of the prerequisite requirements, are permitted to apply for progression to the nursing major.

Students who have submitted applications for progression to the Nursing major will receive a letter from the Director of the Nursing Program detailing their acceptance status. Students are urged to read this correspondence carefully.

Frequently Requested Information

New students who are awaiting NCLEX results may enroll, with permission, in NURS 203 – Health Assessment Course that is offered only during the Spring semester– (offered in the Summer only with adequate enrollment).

Students must complete a course in human nutrition. The prerequisite for Human Nutrition (BIO382) is Chemistry 105 at York College.

Students who have completed 4-5 credit Chemistry courses (with a lab component) grade of “C.” or better and seeking equivalency credit for Chemistry 105, must see the coordinator of the Chemistry Discipline.

CUNY/SUNY A.A.S. graduates are encouraged to clarify any course waivers from the General Education requirement with the Office of the Registrar.

NON-CUNY/SUNY graduates are strongly encouraged to seek advisement from a Nursing faculty member to clarify transfer credits and avoid taking the wrong courses

Physician Assistant (BS)**HEGIS Code I299.10**

The Physician Assistant (PA) is a health professional licensed to practice medicine with physician supervision. Physician assistants are qualified by graduation from an accredited physician assistant training program and by certification of the National Commission on Certification of Physician Assistants.

Within the collaborative physician/PA relationship, physician assistants exercise autonomy in medical decision-making and provide a broad range of diagnostic and therapeutic services. The clinical role of physician assistants includes primary and specialty care, in medical and surgical settings, in rural and urban areas. Physician Assistant practice is centered on patient care and may include educational, research and administrative activities.

The PA elicits medical histories, performs complete physical examinations, performs and interprets various diagnostic tests and formulates diagnosis and treatment plans.

The physician assistant functions within the scope of practice of the supervising physician and within the level of experience and training achieved. An important component of PA practice is patient counseling and patient education. Physician assistants practice in varied settings, including private medical offices, hospitals, clinics and community health centers.

Physician assistants practicing in New York State may write prescriptions for medications, including certain classes of controlled substances.

Physician assistants provide services in various medical and surgical disciplines including family practice, pediatrics, obstetrics/gynecology, geriatrics and emergency medicine.

The physician assistant role requires the application of intelligence, compassion, sound judgment, critical reasoning, dedication to patients, and good interpersonal skills.

Accreditation and Credentials

- The Physician Assistant Program is accredited by the Accreditation Review Commission on Education for the Physician Assistant (ARC-PA).
- The Bachelor of Science in Physician Assistant Studies is conferred when the Physician Assistant Program requirements are fulfilled, including successful completion of all Physician Assistant Major Discipline requirements, in addition to York College's General Education Requirements for the Bachelor of Science Degree Certification:
- Upon completion of all requirements and approval by the PA program, the graduate is permitted to sit for the National Commission on Certification of Physician Assistants examination.
- Licensure: Upon completion of all requirements, the graduate is permitted to apply to New York State for limited permit licensure as a physician assistant.
- The PA can apply for a full license upon taking and passing the National Commission on Certification of Physician Assistants (NCCPA) examination.

Eligibility for Screening into the Physician Assistant Program

Completion of 73 college credits (Transfer Students must have all prerequisite courses completed)

Overall Grade Point Average 2.7 minimum (Pending college administration approval, the minimum overall grade point average will be 2.9 for students applying for Fall 2011).

Science Grade Point Average 2.7 minimum (Pending college administration approval, the minimum science grade point average will be 2.9 for students applying for Fall 2011).

Plan for completion of all York College general education and pre-major course requirements prior to enrollment:

- Biology 201 -
- Biological Principles I, lecture and lab
- Biology 202 - Biological Principles II, lecture and lab
- Chemistry 101 - Chemical Principles I, lecture and lab
- Chemistry 102 - Chemical Principles II, lecture and lab
- Chemistry 231- Chemical Principles I or 230 and 235
- Essential of Organical Chemistry, lecture and lab
- Biology 234 - Anatomy and Physiology I, lecture and lab
- Biology 235 - Anatomy and Physiology II, lecture and lab
- Mathematics 111 - Introduction to Statistics and Probability
- Psychology 102 - Introductory Psychology
- Sociology 101 - Introduction to Sociology
- Philosophy 103 - Introduction to Knowledge and Value (preferred) **or** Philosophy 102 or 121
- Health Professions GC 101 - Basic Concepts of Health Professions
- Writing 303 - Research and Writing for Professional Programs
- All York College General Education Requirements, including Fine & Performing Arts (3 credits) and 2 Writing Intensive (WI) Courses (the 3rd WI course required for graduation is a component of the PA Program Course work)

General education requirements waiver may be applicable if possessing a degree.

This determination is made by the York College Registrar.

Completion of at least 100 hours of health care experience to apply.

Documentation of at least 200 hours is required for all students prior to starting the Physician Assistant Program.

Screening Procedure for Physician Assistant Program

- Students who are eligible (see Eligibility for Screening into Physician Assistant Program) should apply. Submission includes:
- Proof of Acceptance to York College for transfer students
- Transcripts for transfer students
- Three letters of reference
- Documentation of at least 100 hours of health care experience (Documentation of 200 hours is required for admission)
- Completed Physician Assistant Program Application Typed personal statement

Selected students will be invited for an interview

Acceptance into the Physician Assistant Program

Approval by the Physician Assistant Program Admissions Committee. This committee bases its recommendations on the following screening criteria;

- Physician Assistant Program Application and three letters of reference
- Interview
- Grade point average and appropriate courses.

Applicants are not considered accepted into the program until they receive a letter of acceptance from the director of the Physician Assistant Program.

Outside Employment Policy

Applicants to the Physician Assistant Program must assess their ability to pay tuition, equipment expenses, book expenses, travel expenses and other living expenses for themselves and their dependents for the full two years of the program.

The program is rigorous, and outside employment is strongly discouraged while attending the PA Program.

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The program is rigorous, and outside employment is strongly discouraged while attending the PA Program.

Promotion and Retention

- Completion of courses in specific sequence, good academic & professional standing in the College and in the Physician Assistant Program is required for promotion and graduation.
- Retention is based on good academic standing as defined in the PA Program Student Handbook, matriculation at York College and continuing review by the Physician Assistant Program Academic Standing Committee.

Tuition and Fees

PA Program Tuition & Fees are equivalent to the Undergraduate Tuition & Fee schedule.

Additional expenses specific to the Physician Assistant Program include books, supplies, equipment, travel, professional liability and memberships, field trips and other fees (totals approximate):

- First Semester: \$750
- Second and Third Semester: \$500
- Clinical Semesters: \$250/semester

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 Physician Assistant Programs. Information is available at the Physician Assistant office as early as possible. Applications are accepted on a rolling basis.

Physician Assistant Program Affiliations

- Queens Hospital Center, Jamaica, NY

- St. Albans Veteran Administration Hospital, St. Albans, NY
- New York Hospital Queens, Flushing, NY
- Woodhull Hospital, Brooklyn, NY
- Damian Family Practice, Queens & Bronx, NY
- The Floating Hospital, Queens & Brooklyn, NY
- MS Family Medicine, Rosedale, NY
- Lowell Metabolic Health and Longevity Center, Great Neck, NY

Suggested Program Sequence		47
Fall Semester		
Didactic Year		15
HSPA301	Pharmacology I	2
HSPA357	Pathophysiology	3
HSPA304	Interviewing & Counseling	1
HSPA401	Physical Diagnosis I	3
HSPA337	Anatomy	3
HSPA305	Pa Profession	1
HPMT356	Microbiology/Immunology	2
Spring Semester		
Didactic Year		17
HSPA302	Pharmacology II	2
HSPA402	Physical Diagnosis II	3
HSPA410	Internal Medicine I	2
HSPA428	Primary Care I	2
HSPA324	Diagnostic Studies	2
PHIL308	Biomedical Ethics	3
HSPA449	Surgery	2
HSPA313	Clinical Skills	1
Summer Sessions I		
Clinical Year		6
HSPA412	Internal Medicine II	2
HSPA430	Primary Care	1
HSPA425	Clinical Correlations	1
HSPA408	Psychosocial Dynamics	1
HSPA435	Emergency Medicine	1
Summer Sessions II		
Clinical Year		9
HSPA450	Surgical Clinical Rotation	1
HSPA451	Internal Medicine Clinical Rotation	1
HSPA452	Pediatrics Clinical Rotation	1
HSPA453	Emergency Medicine Rotation	1
HSPA454	Long Term Care Rotation	1
HSPA455	Psychiatry Rotation	1
HSPA457	Obstetrics & Gynecology Clinical Rotation	1
HSPA458	Family Medicine Clinical Rotation	1
HSPA459	Ambulatory Care Clinical Rotation	1

Dept. of Health & Physical Education*Chair: Ajuluchukwu**Professor: Barley**Associate Professor: Agin, Brodsky, Marks, Werber-Zion**Assistant Professor: Costley, Glaser, Grosskopf**Lecturer: Ogle**Instructor: Lane,***Gerontological Studies and Services (BS)****HEGIS Code 2299.01**

Gerontological Studies And Services.		
Required Courses		49
General Education Program Requirements		23
GER0101	Introduction to Gerontology I (Interdisciplinary)	3
GER0201	Intermediate Gerontology	3
GER0301	Wellness and the Elderly	3
HE201	Foundations of Health and Wellness	2
HE341	HIV/AIDS: Public Health Implications	3
PSY280	Psychology of Geriatrics	3
PSY283	Psychology of Death and Dying	3
SCWK203	Social Welfare Programs	3
Skills Requirements		14
HE223	Health Behavior	2
HE224	Laboratory in Health Behavior	1
HE321	Health Counseling	3
HE331	Program Planning	3
PE353	Physical Activity for Special Populations	2
SCWK300	Generalist Social Work Practice I and Skills Lab	3
Elective Requirements		6
ANTH302	Human Aging Cross-Culturally	3
BIO283	Biology of Aging	3
PE322	Recreation, Organization, and Leadership	3
POL273	Politics of Aging	3
PSY381	Psychological Consequences of Chronic Disability	3
SOC236	Sociology of Aging	3
Field Work		6
HE471-474	Field Work	6

Graduates of this program will be prepared to continue their education at the graduate level, or to enter employment in their chosen fields.

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. 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.

Gerontology (Minor)

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
Required Major Discipline Courses			
GER0101	Introduction to Gerontology I (Interdisciplinary)		3
GER0201	Intermediate Gerontology		3
GER0301	Wellness and the Elderly		3
Elective Requirements (Select two courses from the following):			
ANTH302	Anthropology of Aging		3
BIO283	Biology of Aging		3
POL273	Politics of Aging		3
PSY280	Psychology of Geriatrics		3
PSY283	Psychology of Death and Dying		3
SOC236	Sociology of Aging		3

Community Health Education (BS)**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:

- Hospitals and other health-care institutions in patient education programs.
- Community-based health education programs initiated by health departments, Boys & Girls Clubs, community clinics and outreach services.
- 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
Required Major Discipline Courses			
HE201	Foundations of Health and Wellness		2
HE219	Health Services		3
HE223	Health Behavior		2
HE224	Laboratory in Health Behavior		1
HE321	Health Counseling		3
HE331	Program Planning		3
HE471	Field Work		1
HE472	Field Work		1
HE473	Field Work		2
HE474	Field Work		2
HE481	Organization and Administration of Health Education		3
BIO281	Human Structure and Function		4
Elective Major Discipline Courses			12
GER0301	Wellness and The Elderly		3

Major Discipline Requirements		45
HE200	Basic Cardiac Life Support	1
HE211	Stress and Health	2
HE241	Sex and Sexuality	3
HE312	Health and Disease	3
HE313	Alcohol and Alcoholism	3
HE314	Nutrition and Health	2
HE315	Consumer Health	2
HE316	Family Health	3
HE317	First Aid and Safety Education	2
HE341	HIV/AIDS: Public Health Implications	3
HE342	Drug Use and Abuse	3
PE358	Physiology of Exercise	3
HE420	Alcoholism Counseling	3
HE450	Practicum in Health Education	2
HE452	Cardiovascular Fitness	3
Psychology Electives Select two from the following		6
PSY215	Human Development I: Infancy/Childhood	3
PSY216	Human Development II: Adolescence/Maturity	3
PSY283	Psychology of Death and Dying	3
PSY332	Social Psychology	3
PSY338	Abnormal Psychology	3

*Prospective Community Health Education majors are required to take Biology 120, which may be used toward fulfillment of the Natural Science Area requirements.

Registered nurses are exempt from Biology 281 under Group I; they are required to complete at least 8 credits under Group II.

Teaching Certification in Health Education K-12 (BS)

HEGIS Code 0837

Health Education Majors Planning to Apply for New York State Teaching

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 Department of Teacher Education 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 Department, 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
Required Major Discipline Courses		
HE201	Foundations of Health and Wellness	2
HE219	Health Services	3
HE223	Health Behavior	2
HE224	Laboratory in Health Behavior	1
HE241	Sex and Sexuality	3
HE312	Health and Disease	3
HE314	Nutrition and Health	2
HE315	Consumer Health	2
HE316	Family Health	3
HE321	Health Counseling	3
HE331	Program Planning	3
HE342	Drug Use and Abuse	3
HE363	Measurement and Evaluation in tttt	3
HE481	Organization and Administration of Health Education	3
BIO281	Human Structure and Function	4
Education Certification requirements		33/34
Foundation Courses		
AC101	Introduction to Microcomputers I	0-1
AC230	Teaching with Multimedia Technology	2
EDUC280	Child and Adolescent Development for Teachers	3
EDUC281	Field Experiences in Childhood and Adolescent Development	1
EDUC283	Effective Teaching and Learning	3
MATH271	Mathematics for Elementary School Teachers#	4
SOC202	Evolution of Major Ideas and Issues in Education	3
PHIL202	Evolution of Major Ideas and Issues in Education	3
Methods Courses		
EDUC329	Curriculum and Methods in Health Education at the Elementary Level	3
EDUC330	Curriculum and Methods in Health Education at the Secondary Level	3
EDUC340	Literacy Instruction inside Middle and Secondary Schools	3
Student Teaching		
EDUC418	Supervised Student Teaching Health Education (grades K-6)	4
EDUC419	Supervised Student Teaching Health Education (grades 7-12)	4

**Prospective Health Education K-12 majors are required to take Biology 120, which may be used towards fulfillment of the Natural Science Area requirements.*

*** Majors must complete 2 Mathematics courses, MATH 111 and a second Mathematics course selected from MATH 271 or among the Mathematics General Education Course listing.*

Proof of a current First Aid/CPR certification.

Health Education (Minor)

HEGIS Code 0000

Required Courses	15
Required Major Discipline Courses	9
HE219 Health Services	3
HE223 Health Behavior	2
HE224 Laboratory in Health Behavior	1
HE321 Health Counseling	3
Elective Requirements: Select two courses from the following:	6
HE200 Basic Cardiac Life Support	1
HE211 Stress and Health	2
HE241 Sex and Sexuality	3
HE312 Health and Disease	3
HE314 Nutrition and Health	2
HE316 Family Health	3
HE317 First Aid and Safety Education	2
HE341 HIV/AIDS: Public Health Implications	3
HE342 Drug use and Abuse	3

Health Promotion Management (BS)**HEGIS Code 0837**

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 work site health promotion centers.

Major Discipline Requirements	48
Required Major Discipline Courses	36
HE201 Foundations of Health and Wellness	2
HE211 Stress and Health	2
HE219 Health Services	3
HE223 Health Behavior	2
HE224 Laboratory in Health Behavior	1
HE314 Nutrition and Health	2
HE321 Health Counseling	3
HE331 Program Planning	3

Major Discipline Requirements	48
HE342 Drug Use and Abuse	3
PE358 Physiology of Exercise	3
HE363 Measurement and Evaluation in Health and Physical Education	3
HE452 Cardiovascular Fitness	3
HE481 Organization and Administration of Health Education	3
HE488 Health Promotion in the Workplace	3
Business Required Courses	6
BUS301 Management Theory and Practice	3
MKT341 Introduction to Marketing	3
Field Work	6
HE471 Field Work in Health Education	1
HE472 Field Work in Health Education	1
HE473 Field Work in Health Education	2
HE474 Field Work in Health Education	2

* Prospective Health Promotion Management majors must take Economics 102, which may be used toward fulfillment of the Behavior Science Area requirements.

Movement Science (BS)**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.

Required Courses	49
Skills courses* Select 6 credits from any 100-200*- level course and/or from Physical Education, 311, 312, 313	6
Required Major Discipline Courses	23
PE215 Basics of Motor Development and Motor Learning	3
PE350 Principles and Foundations of Physical Education	2

Required Courses		49
PE358	Physiology of Exercise	3
PE362	Kinesiology	3
PE363	Measurement and Evaluation in Health and Physical Education	3
PE365	Research and Writing in Health and Physical Education	3
PE368	Physical Education, Sports and Society	3
PE452	Cardiovascular Fitness	3

Concentration Areas		
Choose one of the following Concentration Areas		
Community Coaching/Personal Training		20
PE322	Recreation, Organization, and Leadership	3
PE353	Physical Activity for Special Populations	2
PE355	Psychology of Sport and Motor Performance	2
PE360	Theories and Techniques of Coaching	2
PE487	Adult Fitness Programs	3
PE471	Field Work in Physical Education and Recreation	1
PE472	Field Work in Physical Education and Recreation	1
PE473	Field Work in Physical Education and Recreation	2
PE474	Field Work in Physical Education and Recreation	2

Proof of a current First Aid/CPR certification		
Interdisciplinary Requirement 6 credits in one of the following categories 200 level or above:		
Natural science (Biology, Chemistry, or Physics)		
Psychology Social Science (Sociology, Anthropology)		
Business and Economics Health Education		
		6

Athletic Training		20
PEAT310	Introduction to Athletic Training and Sports Medicine	3
PEAT318	Field Work: Introduction to Athletic Training and Sports Medicine	1
PEAT320	Therapeutic Exercise and Evaluation	3
PEAT328	Field Work: Therapeutic Exercise and Evaluation	2
PEAT330	Scientific Basis in Athletic Training	3
PEAT338	Field Work: – Scientific Basis in Athletic Training	2
PEAT340	Modalities and Management Strategies in Athletic Training	3
PEAT348	Field Work: Modalities and Management Strategies in Athletic Training	3

Proof of a current First Aid/CPR certification.		
*200-level Independent Study courses do not fulfill the skills courses requirements		

Physical Education (Grades K-12) (BS)

HEGIS Code 0835, P.83.

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.

The Physical Education Program, prepares candidates with the knowledge and understanding, competencies, and professionalism required for teaching physical education to children and adolescents in grades K-12.

Candidates completing the Program are eligible to apply for New York State initial certification in Physical Education, Grades K-12.

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.

Major Discipline Requirements		42
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Group I*		
HE210	Health Issues for the Physical Educator	2
PE215	Basics of Motor Development and Motor Learning	3
HE314	Nutrition and Health	2
PE350	Principles and Foundations of Physical Education	2

Group II**		
PE353	Physical Activity for Special Populations	2
PE355	Psychology of Sport and Motor Performance	2
PE358	Physiology of Exercise	3
PE360	Theories and Techniques of Coaching	2
PE362	Kinesiology	3
PE363	Measurement and Evaluation in Health and Physical Education	3
PE368	Physical Education, Sports and Society	3
PE452	Cardiovascular Fitness	3

Physical Education Skills courses (100-200 Level)		12
PE151	Basketball	1
PE158	Football	1
PE162	Lacrosse	1
PE163	Softball	1
PE164	Soccer	1
PE165	Volleyball	1
PE181	Badminton	1
PE173	Folk and Social Dance	1
PE176	Modern Dance I	1
PE183	African Dance	1
PE278	Modern Dance II	1
PE141	Weight Training	1
PE154	Track and Field	1
PE159	Self-Defense Activities	1
PE166	Yoga	1
PE167	Handball	1
PE171	Tennis	1
PE174	Golf	1
PE271	Competitive Tennis	1
PE170	Canoeing	1
PE177	Small Boat Sailing	1
PE178	Outdoor Living: Hiking and Backpacking	1

Major Discipline Requirements		42
PE279	Leadership in Outdoor Living	1
PE280	Winter Mountaineering	1
PE182	Swimming for Non-Swimmers	1
PE282	Swimming	1
PE284	Skin and Scuba Diving	1
PE285	Senior Life Saving	1
PE287	Water Safety Instructor	2
PE139	Instructional Methodologies of Teaching Sports Skills	2
Education Certification requirements		31-32
Foundation Courses		
AC101	Introduction to Microcomputers I	0-1
AC230	Teaching with Multimedia Technology	2
EDUC280	Child and Adolescent Development for Teachers	3
EDUC281	Field Experiences in Childhood and Adolescent Development	1
EDUC283	Effective Teaching and Learning	3
MATH271	Mathematics for Elementary School Teachers#	4
SOC202	Evolution of Major Ideas and Issues in Education	3
PHIL202	Evolution of Major Ideas and Issues in Education	3
Methods Courses		
EDUC340	Literacy Instruction inside Middle and Secondary Schools	3
EDUC341	Curriculum and Methods in Physical Education, K-12	4
Student Teaching		
EDUC448	Supervised Teaching, Physical Education, Grades K-6	4
EDUC449	Supervised Teaching, Physical Education, Grades 7-12	4

Department of Occupational Therapy

Chair: Krauss

Associate Professor: Auriemma, Avi-Itzhak, Faust, Kaplan

Lecturer: Rentz

Occupational Therapy (MS)

HEGIS Code I201/I208

Career Description

According to the American Occupational Therapy Association*, Occupational Therapy is skilled treatment that helps individuals achieve independence in all facets of their lives. It gives people the "skills for the job of living" necessary for independent and satisfying lives. Occupational Therapy Services typically include:

- Customized treatment programs to improve one's ability to perform daily activities
- Comprehensive home and job site evaluations with adaptation recommendations
- Performance skills assessments and treatments Adaptive equipment recommendations and usage training
- Guidance to family members and caregivers

Occupational Therapy practitioners are skilled professionals whose education includes the study of human growth and development with specific emphasis on the social, emotional, and physiological effects of illness or injury.

* American Occupational Therapy Association. Retrieved April 24, 2006, from www.aota.org/featured/area6/index.asp

Mission Statement

The mission of the York College Occupational Therapy program is to graduate effective and competent entry level OT practitioners. The Department of Occupational Therapy, consistent with the York College Mission, is "responsive to the special needs of an urban constituency."

That is, students of diverse backgrounds will acquire knowledge and skills through academic and fieldwork experiences.

This will enable them to provide effective services to a diverse cultural population in a variety of settings upon graduation.

The program seeks to:

Foster the development of active learners who utilize analysis and synthesis for critical thinking. Students will become self-aware, innovative, able to handle ambiguity and conflict and develop creative problem solving skills.

Develop effective oral and written communication skills for collaborating with clients, colleagues, and families in a variety of contexts.

Enable students to identify evaluate and apply research that supports practice decisions. Develop students to be life long learners who participate in and contribute to professional organizations and activities.

Develop sound ethical practices and behaviors as practitioners, consultants, educators, researchers and administrators.

Provide a foundation of knowledge in systems theory in order to understand and intervene in social policies.

All Physical Education courses are coeducational.

*All Physical Education K-12 majors, including transfer students, are required to take the PE 150 Fitness for Living course prior to taking

Group II courses

** Courses listed in Group I must be completed before taking courses from Group II.

#Majors must complete 2 Mathematics courses, MATH 111 and a second Mathematics course selected from MATH 271 or among the Mathematics General Education.

Proof of a current First Aid/CPR certification should be presented to the department at least three months prior to graduation.

Communities, organizations, groups and individuals. Provide role models who demonstrate a commitment to the college, community and the profession.

Curriculum Philosophy and Design

Systems theory is utilized as the basis for curriculum design and encompasses the following principles:

- Patterns of human behavior emerge dynamically in a self-organizing, non-linear fashion.
- It is the interaction amongst the components (maturational and environmental) that generate new behavioral patterns.
- 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 interaction amongst the components of a system create new patterns of behavior in a self-organizing manner.
- Problems in occupational performance stem from constraints in the individuals ability and/or the environment to meet activity demands.

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. treatment process to promote change toward improved function.

The occupational therapist collaborates with an individual 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:

- Problems in the structure, function and integration of systems causes illness.
- The occupational therapy process, acting as a catalyst, facilitates wellness.
- The wellness to illness to wellness continuum is based on the structure, function and integration of systems.

In the first year of the program, through both experiential and didactic education, students to become active participants in the process of becoming an occupational therapist. It is in this year that they begin dynamically integrating their previous academic learning experiences with:

- Self-reflection and the principals of collaborative process.
- Understanding the impact on performance that environmental supports and constraints have as they interact with abilities and limitations in body structure and function, in a cultural context.
- Understanding the complexity of task analysis (interaction between the participant and the task demands).

The second year's coursework merges previous content (collaboration, analysis of supports and constraints in activities/ environment and body structure) with new course content in research (method and design). This new component adds critical, analytical and quantitative reasoning that is expected to be applied to exploring efficacy based practice. In addition, new course content applies the OT treatment process to occupational challenges in individuals. Emerging from the students' self organization of this content is the ability to function and learn in fieldwork I experiences, and begin the process of their research project.

The third year's coursework continues the interaction of content (collaboration processes and analysis of task/environment and body structure) related to treatment implementation within various patient populations. Further, an added component this year is a course on systems management.

This new content examines health and OT treatment from a macro/ institutional view. From this emerges a more complex view of assessment and treatment in various practice settings as well as larger professional issues.

The fourth year's coursework builds upon fieldwork II experiences. These utilize collaboration, analysis of activity/ environment and body structure and their dynamic systems changes from both a micro (individual patient) and macro (institutional) perspective. Added to this year is the capstone experience and a case- based theory course that are catalysts for: 1) application of the OT process to emerging practice areas and 2) a consolidation of knowledge from both academic and clinical experiences in readiness for the national certification examination and entry level professional practice.

Accreditation and Credentials

- 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.
- The BS/MS 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 Health Science Degree.
- 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.
- 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

- Completion of a minimum of 60 college credits and be a matriculated student at York college.
- Pass CUNY Proficiency Examination
- Overall grade point average of 2.75. Completion of all college and pre-major course requirements.
- Biology 201 and 202
- Chemistry 101
- One College-level Statistics Course

- Psychology 102
- Psychology 214 OR Psychology 215 and 216
- Psychology 338
- Sociology 101 Writing 303*
- Students may apply for screening, pending successful completion of required courses.
- Completion of 50 volunteer hours with a licensed Occupational Therapist
- York College transcript or York College evaluation of transfer credits
- Students must be aware that a felony conviction may preclude an individual from taking the certifying examination and obtaining a license to practice.

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.

** Students who complete a Bachelor's degree prior to entry into the Occupational Therapy program will be waived from Writing 303.*

Major Discipline Requirements		84
OT313	Fundamentals of Occupational Therapy	3
OT315	Functional Human Anatomy	4
OT316	Functional Human Physiology	4
OT318	Clinical Kinesiology/Lect. & Lab.	4
OT319	Common Medical Conditions	3
OT321	Occupational Analysis	3
OT322	Occupations Through the Life Span	3
OT403	Advanced Occupational Analysis	3
OT411	Occupational Therapy Process I: Pediatric Intervention	4
OT417	Research Methods	3.5
OT423	Collaboration in Occupational Therapy	4
OT432	Neuroscience	3.5
OT446	Independent Study of Selected Topics in Occupational Therapy*	3
OT504	Advanced Neuroscience	3
OT505	Occupational Therapy Process I: Physical Intervention	4
OT506	Occupational Therapy Process II: Physical Intervention	4
OT508	Occupational Therapy Process I: Psychosocial Intervention	4
OT509	509 Occupational Therapy Process II: Psychosocial Intervention (WI)	4
OT513	Systems Management	3
OT517	Research Design	3
OT518	Research Seminar I	1
OT519	Research Seminar II	1
OT521	Research Seminar III	1
OT522	Research Seminar IV	2
OT641	Fieldwork II Occupational Therapy Practice I	1
OT642	Fieldwork II Occupational Therapy Practice II	1
OT643	Capstone Community Experience	4

Major Discipline Requirements		84
OT644	Advanced Occupational Therapy Theory & Practice	3
OT646	Independent Study of Selected Topics in Occupational Therapy	3
Choose one of the following		
OT645A	Occupational Therapy Practice	3
OT645B	Occupational Therapy Practice	3

*Not required for graduation

Screening Procedures for Occupational Therapy Program

- 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.
- Transfer students must officially apply to York College as a first step.
- Prospective applicants should contact the Department of Occupational Therapy for advisement as early as possible at 718-262-2720.
- Screening takes place during the Spring semester for Fall acceptance into the program.
- York College transcript, or York College evaluation of transfer credits for students transferring into York College.

Acceptance into the Occupational Therapy Program is done by approval by the Occupational Therapy Screening Committee. This committee bases its recommendation on the following screening criteria:

- Department of Occupational Therapy Application and two specific letters of reference.
- Interview during screening process.
- Minimum grade point average of 2.75 and required courses.
- On site writing sample composed on a computer.
- Applicants are not considered accepted into the program until they receive a letter of acceptance from the Chair of the Department of Occupational Therapy.

All Occupational Therapy courses must be taken in the prescribed sequence.

The Occupational Therapy BS/MS Degree takes four (4) academic years to complete. The program consists of 84 specialized occupational therapy credits, spread over eight (8) semesters.

Full-time Sequence Third year		
Fall		
OT313	Fundamentals of Occupational Therapy	3
OT315	Functional Human Anatomy	4
OT322	Occupations Through the Life Span	3
OT321	Occupational Analysis	3
Spring		
OT319	Common Medical Conditions	3
OT318	Clinical Kinesiology	4
OT316	Functional Human Physiology	4
OT423	Collaboration in Occupational Therapy	4
Fourth Year Fall		
OT403	Advanced Occupational Analysis	3
OT417	Research Methods	3.5
OT432	Neuroscience	3.5
OT446	Ind. Study of Selected Topics in Occupational Therapy *	3
OT411	Occupational Therapy Process I: Pediatric Intervention	4
Spring		
OT517	Research Design	3
OT504	Advanced Neuroscience	3
OT505	Occupational Therapy Process I: Physical Intervention	4
OT508	Occupational Therapy Process I: Psychosocial Intervention	4
Fifth Year Fall		
OT506	Occupational Therapy Process II: Physical Intervention	4
OT509	Occupational Therapy Process II: Psychosocial Intervention	4
OT513	Systems Management	3
OT518	Research Seminar I	1
OT646	Ind. Study of Selected Topics in Occupational Therapy *	3
Spring		
OT641	Fieldwork II Occupational Therapy Practice I	1
OT642	Fieldwork II Occupational Therapy Practice II	1
Summer		
OT519	Research Seminar II	1
Sixth Year Fall		
OT642	Fieldwork II Occupational Therapy Practice II	1
OT641	Fieldwork II Occupational Therapy Practice I	1
Winter		
OT521	Research Seminar III	1
Spring		
OT522	Research Seminar IV	2
OT643	Capstone Experience	4
OT644	Advanced Occupational Therapy Theory & Practice	3
OT645A	Occupational Therapy Practice	3
OT645B	Occupational Therapy Practice	3
OT Total credits in the major required for the BS/MS		84

Promotion and Retention

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 and completion of Master's level project is required for graduation.

Maintenance of Good Academic Standing

Program standards

Students are required to join and maintain membership to the AOTA (American Occupational Therapy Association). Students will also be required to maintain a minimum GPA of 2.75 in their undergraduate coursework (300 and 400 level courses) and 3.0 in their graduate coursework (500 and 600 level courses).

Students who fall below these minimum requirements will be placed on academic probation and will be given one semester to raise their GPA to minimum standards.

A failure to raise the GPA to minimum standards will be considered grounds for dismissal from the OT program.

In addition, being placed on academic probation for any two semesters during the 4 years of the professional curriculum will be grounds for dismissal.

Course standards for retention

The lowest acceptable grade for Occupational Therapy course is a "C.-". Students who receive below a "C.-" grade must repeat the course. Students will have only one opportunity to repeat any course.

A grade of "D" in any two courses within the 4-year curriculum or failure of two courses in one semester constitutes grounds for dismissal from the occupational therapy program. Two failures of level I fieldwork constitute grounds for dismissal from the program.

Continuing review by the Occupational Therapy Evaluation and Selection committee.

The Occupational Therapy Evaluation and Selection Committee may dismiss a student from the program due to any infraction(s) of the Rules of Student Conduct on Campus or a breach of Occupational Therapy Ethics.

This includes cheating, plagiarism, the use of drugs, and / or other activities mentioned under the Guide for Student Development.

Length of time in program

Students who are accepted into the Occupational Therapy program for the BS/MS degree have six academic years to complete the program. All Level II experiences must be completed within 24 months of completing academic coursework.

Please Note: In the event of dismissal from the program due to any of the items (1 – 4) mentioned above, the student has the right of appeal, first to the Occupational Therapy Evaluation and Selection Committee, and second, to the York College Academic Standards Committee.

The student must come before the Committees in order to continue in the program. Students who enroll in a semester for OT 641 or 642 will be considered as registered for a full-time program.

* *The OT course sequence, credit allotment and curriculum organization are subject to change.*

Department of Occupational Therapy Fieldwork Sites

Department of Social Sciences

Chair: Acker

Professor: Ashton, Divale, Rosenthal

Associate Professor: Araya, Letteney, Moldovan, Peterson

Assistant Professor: Gregory, Levey, Oglensky, Rodgers,

Schuller, Zhang

African-American Studies Program (BA)

HEGIS Code 221 I

The African-American Studies Program covers the general area of the Black experience in Africa, America and the West Indies from a historical, sociopolitical, cultural, and economic perspective.

The Program has the following objectives:

- 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.
- To prepare students for careers in education, government, multinational and private business, and international organizations.
- 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.
- To enhance the cultural life of the community in association with SEEK, the AAS Club, and other student and community organizations through joint cultural activities, adult education, lectures, and tutorials.
- To reinforce curricula in other programs of study.

*** Majors should begin work on the General Education 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 AAS 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. General Education courses taken to fulfill major/minor requirements do not count towards meeting General Education requirements.

Africa American Studies (Minor)**

HEGIS Code 0000

The AAS minor is organized to meet the needs of students majoring in other disciplines; it provides students with a better understanding of the Black experience in Africa, America, and the Caribbean.

Requirements		15
The following twelve (12) credits must be completed:		
AAS172	Introduction to Africa	3
AAS242	The Black Family	3
AAS325	Historiography in Black Studies	3
ANTH241	Ethnology of Africa	3
At least three (3) credits at 300 level courses from Section B of AAS Major.		3

- Affiliation Clinical Associate
- Avalon Gardens Rehab & Healthcare Center
- Tami McGowan, O.T.R
- Barrier Free Living Patricia Motus, O.T.R.
- Bellevue Hospital Center Ai Lian Lim, O.T.R.
- Beth Israel Medical Center Elliot Katz, O.T.R.
- Beth Israel Medical Center/Psych Mary Petti Weber, O.T.R.
- Brooklyn Hospital Center Beata Nowak
- Brooklyn VA Medical Center/Psych Larry Deemer, O.T.R.
- Coler/Goldwater Memorial Hospital Anu Kukade, O.T.R.
- Coney Island Hospital Lisa Bosse, O.T.R.
- Creedmoor Psychiatric Center Curtisse Waddy, O.T.R
- Cross Roads School Carolyn Leges, O.T.R.
- EuroFitness Pediatric Rehab Center Steve Kashulsky, O.T.R.
- Greater Harlem Nursing Home George Mwangi, O.T.R.
- Harlem Hospital/Rehab. Suzette Green, O.T.R.
- Henry Street Settlement Melanie Austin, O.T.R.
- Jack Weiler Hospital Manisha Joshi, O.T.R.
- Jewish Home & Hospital - Bronx Glenn Stewart, O.T.R.
- Jewish Home & Hospital - Manhattan Holly Blasier, O.T.R.
- Kidz Therapy Services Christina Davis, O.T.R.
- Kingsbrook Medical Center Jangir Sultan, O.T.R. Long Island Jewish/Hillside Medical Center Loretta Cummins O.T.R
- Lutheran Medical Center Romana Ahmad, O.T.R.
- Manhattan Psychiatric Center Colette Noel, O.T.R.
- Mercy Medical Center Sandy Abolafia
- Metropolitan Hospital Center Frances Gary Blount, O.T.R.
- Northshore University Hospital(Manhasset) Joan Matthews, O.T.R.(Glen Cove) Caralynn Ross, O.T.R.
- New York State Psychiatric Institute Elaine Mullen, O.T.R.
- NYU - Rusk Institute for Rehab Medicine Nandita Singh, O.T.R. Peninsula Hospital Anderson Seraphin, O.T.R.
- Positive Beginnings Rose Tanis, O.T.R.
- Queens Boulevard Extended Care Facility Haddassah Zern, O.T.R.
- Queens Hospital Center Bernadita Sapugay, O.T.R.
- Shorefront Jewish Geriatric Center Sara Dettore, O.T.R.
- St. Luke's Hospital/Psych Jennifer Dulek, O.T.R. South Oaks Hospital/Psych Fran Babiss, O.T.R.
- St. Barnabas Hospital Michelle Chin, O.T.R.
- St. Vincent's Medical Center Debra Dickstein, O.T.R.
- St. Vincent's Medical Center/Psych Karen Shufleder, O.T.R. The Summit School Jeanette Hutter, O.T.R. Transitions of Long Island Patricia Kearney, O.T.R.
- Village Care of New York Patricia Motus, O.T.R.

** Majors should begin work on the General Education 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 AAS 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.

General Education courses taken to fulfill major/minor requirements do not count towards meeting General Education requirements.

Anthropology (BA)

HEGIS Code 2202

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 and qualitative research skills that make them employable in a wide variety of settings, as well as preparing them for graduate studies.

Major Discipline Requirements (30 Credits)		
ANTH101	Introduction to Cultural Anthropology	3
ANTH220	Social Research I	3
ANTH321	Social Research Methods II	3
ANTH310	Techniques of Cross-Cultural Research	3
ANTH490	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.

That course will satisfy both requirements in Anthropology and Teacher Education.

Anthropology (Minor)

HEGIS Code 2202

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.

Requirements		15
ANTH101	Introduction to Cultural Anthropology	3
Four additional courses in Anthropology		12

Social Work (BS)

HEGIS Code 2104

Major Discipline Requirements		
Support Courses		32
AC101	Introduction to Microcomputers	1
ANTH101	Introduction to Cultural Anthropology	3
BIO130	Biology of the Brain and Behavior	3
ENG125	Introduction to College Writing	4
HE312	Health and Disease	3
POL103	Politics and Government in the United States	3
PSY102	Introductory Psychology	3
PSY215	Human Development I	3
PSY216	Human Development II	3
SOC101	Introduction to Sociology	3
WRITE303	Research and Writing for Professional Purposes	3
Human Diversity Requirement Choose two of the following courses		6
ANTH243	The Caribbean	3
AAS341	The Black Experience in the Caribbean	3
PSY333	Black Psychology	3
SOC235	Ethnicity	3
SOC333	Social Stratification	3
Social Work Courses		42
SCWK101	Introduction to Social Work	3
SCWK203	Social Welfare Programs and Policies	3
SCWK293	Social Work Practicum	3
SCWK300	Social Work Generalist Practice I	3
SCWK350	Social Research I	3
SCWK360	Human Behavior in the Social Environment	3
SCWK370	Social Work Generalist Practice II	3
SCWK400	Social Work Generalist Practice III	3
SCWK410	Field Placement and Seminar I	6
SCWK470	Social Research II	3
SCWK480	Social Welfare Policy	3
SCWK492	Field Placement and Seminar II	6

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. * 19 credits of support courses can be used to fulfill General Education requirements.

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 is posted in the Social Sciences wing.

The criteria for admission are as follows:

- Matriculation at York College with a major in Social Work Completion of 61 or more credits
- A cumulative GPA of 2.50 or better A grade of "C." or better for all social work courses
- A completed application form Adherence to the National Association of Social Workers (NASW) Code of Ethics and to the York College Code of Conduct

Successful completion of the following courses:

- Academic Computing 101; Anthropology 101; Biology 130; English 125; Health Education 312; Political Science 103; Psychology 102, 215, 216; Sociology 101; Social Work 101, 203, 293,300
- 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:

- 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.
- 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).
- 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 criteria 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:

- Admission to the Social Work Program
- A cumulative York College GPA of 2.50 or better
- A grade of "C." or better for all social work courses
- Successful completion of 94 or more credits by the end of the semester in which the student applies
- A completed application form

- 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

Sociology (BA)

HEGIS Code 2208

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 who wish to major or minor in Sociology should speak with a member of the Sociology faculty for advisement.

Major Discipline Requirements		30
SOC101	Introductory Sociology	3
SOC201	Sociological Analysis*	3
SOC220	Social Research I*	3
SOC312	Sociological Theory**	3
SOC321	Social Research II	3

Five electives in Sociology are required. At least three electives must be at the 300 /400 level, and no more than two electives can be at the 200 level.

* *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.*

Sociology (Minor)

HEGIS Code 0000

The Sociology minor is designed to meet the needs of students who are majoring in other areas but who want additional knowledge about human social behavior.

It is also for students who will be working in private or public institutions where knowledge about social issues and different societies and cultures is desired.

SOC101	Introduction to Sociology	3
	Any 200 level Sociology course	3
SOC220	Social Research I *	3
SOC312	Sociological Theory	3
SOC321	Social Research Methods II *	3

*Anthropology majors, Social Work majors and students working toward a Certificate in Survey Research must substitute a 300-level Sociology course for Sociology 220 and either a 300- or a 400-level Sociology course for Sociology 321.

Survey Research (Certificate Program)

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 apply 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.

The Certificate will provide career and promotion opportunities. Students should see an advisor before beginning this program and registering for classes.

Required Courses		17
SOC220	Social Research I*	3
SOC321	Social Research II*	3
SOC226	Survey Research I (Direct Interview & Mail Surveys)	4
SOC227	Survey Research II (Telephone & Internet Surveys)	4
SOC290	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. These courses are not required for the certificate:

- Political Science 332 – Public Opinion and Political Behavior
- Psychology 358 – Psychology of Advertising & Marketing Communications.

Department of Teacher Education

Chair: Clay

Associate Professor: Gerena

Assistant Professor: Bai, Baron, Keiler, Keleher, Shipp

Professor Emeritus: Shilling

Teacher Education Program in Childhood Education, Grades 1-6 (BA)

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.

Teacher Education Programs offered include:

- Childhood Education, Grades 1-6
- Childhood Education with a Bilingual Extension (Spanish/English), Grades 1-6
- Teacher Education, in Biology, Chemistry, or Earth Science, Grades 7-12
- Teacher Education in Spanish, Grades 7-12
- Teacher Education in Mathematics, Grades 7-12
- Health Education, Grades K-12
- Physical Education, Grades K-12.

IMPORTANT NOTE: York College program/course requirements and policies, and New York State Teacher Certification requirements change from time to time. It is very important to stay in touch with the Department of Teacher Education and your education advisor each semester.

For additional information regarding any of the Teacher Education Program requirements, contact the Department of Teacher Education in Room 1D12 of the Academic Core Building, 718-262-2450, e-mail: teached@york.cuny.edu, Web: www.york.cuny.edu/teacher_ed

Please refer to the appropriate academic departmental sections for Individual major course/education course requirements in K-12 or 7-12 Programs.

Requirements for Admission, Retention, Completion of all Teacher Education Programs, and Recommendations for New York State Initial Certification:

Conditional Admission to the Teacher Education Program:

- Complete an application for admission to the Teacher Education Program, which includes a writing sample on why you choose teaching as a career
- Declare an approved major
- Complete a minimum of 42 general education credits and the required general education courses specific to teacher education: Cultural Diversity 210 History 201 OR

202 OR 204 (American History) Political Science 103 OR Economics 101 OR Economics 102

- At least one laboratory science
- Achieve passing scores or the equivalent on the CUNY Skills Assessment Tests by the completion of 60 credits
- Earn a minimum overall 2.75 GPA on all courses taken at York College*
- Transfer students who have completed the minimum general education requirement at another institution must complete at least 12 credits at York College with an overall 2.75 GPA.

Formal Admission to the Teacher Education Program:

- Earn a minimum overall 2.75 GPA on all courses taken at York College
- Complete all of the Foundations Sequence courses;
- AND earn a minimum overall 2.75 GPA on all Foundations courses taken at York College;
- AND earn a minimum “C.” grade in each Foundations course taken at York College OR a minimum “B” grade in each Foundations course taken elsewhere
- Take the CUNY Proficiency Examination (CPE)
- Achieve a passing grade in the Seminar in Teacher Education OR a passing score on the New York State Liberal Arts and Sciences Test (LAST)

Admission to Student Teaching:

- Complete an application for admission to student teaching
- Earn a minimum overall 2.75 GPA on all courses taken at York College
- Complete all of the Professional Education Sequence courses;
- AND earn a minimum overall 2.75 GPA on all Professional Education courses taken at York College;
- AND earn a minimum “C.” grade in each Professional Education course taken at York College OR a minimum “B” grade in each Professional Education course taken elsewhere
- Complete 2/3 of the courses required in the major
- Achieve a passing score on the CUNY Proficiency Examination (CPE)
- Complete a minimum of 100 hours of fieldwork

Completion of Student Teaching:

- Complete both Student Teaching courses and the Student Teaching Seminar
- Earn a minimum overall 2.75 GPA in the student teaching related courses taken at York College

Completion of the Teacher Education Program:

- Earn a minimum overall 2.75 GPA on all courses taken at York College
- Complete all course work required for completion of the degree

Recommendation for New York State Initial Certification:

- Attain certification of completion of the Violence Prevention Workshop
- Attain certification of completion of the Child Abuse and Neglect Workshop
- Achieve a passing score on the New York State Liberal Arts and Sciences Test (LAST)
- Achieve a passing score on the New York State Assessment of Teaching Skills Written Test (ATS-W)
- Achieve a passing score on the New York State Content Specialty Test (CST)
- Complete one year of language other than English or the equivalent

Teacher Education Program in Childhood Education, Grades 1-6

The Program prepares candidates to teach children in Childhood settings in grades 1-6. Candidates who have successfully completed the Childhood Education Program, Grades 1 through 6, are eligible to apply for New York State initial certification in Childhood, Grades 1-6. Childhood Education Program candidates are required to complete a liberal arts or science major in addition to the Childhood Education Program in order to complete their degree.

Approved liberal arts or science majors for the Childhood Education Program include: AAS, Anthropology, Biology, Chemistry, Economics, English, French, History, Liberal Studies, Mathematics, Music, Philosophy, Political Science, Psychology, Sociology, Spanish, and Speech/Communication and Theater Arts.

Education Course Requirements		36-37
Foundations Sequence		16-17
EDUC280	Child and Adolescent Development for Teachers	3
EDUC281	Field Experiences in Childhood and Adolescent Development	1
EDUC283	Educational Psychology: Effective Teaching and Learning	3
PHIL202	Major Ideas and Issues in Education	3
SOC202	Major Ideas and Issues in Education	3
AC101	Introduction to Microcomputers	0-1
AC230	Teaching with Multimedia Technology	2
MATH271	Mathematics for Elementary School Teachers	4
Professional Education Sequence		14
EDUC312	Literacy Instruction and Children’s Literature	3
EDUC314	Content Area Literacy Instruction and Children’s Literature for Beginning and Independent Readers	3
EDUC317	Curriculum and Methods in Elementary Education: Science	2
EDUC318	Curriculum and Methods in Health and Physical Education for the Elementary School	2
EDUC323	Curriculum and Methods in Elementary Education: Mathematics	2
EDUC333	Constructing Social Studies Relationships through the Expressive Arts	2
Student Teaching and Student Teaching Seminar		
EDUC431	Supervised Student Teaching, Grades 1-3	3
EDUC432	Supervised Student Teaching, Grades 4-6	3

Teacher Education Program in Childhood Education with a Bilingual Extension (Spanish/English) Grades 1-6 (BA)

HEGIS Code 1106.01

The Program prepares candidates to teach children in Childhood and Bilingual settings in grades 1-6. Candidates who have successfully completed the Childhood Education with a Bilingual Extension (Spanish/English) Program, Grades 1 through 6, are eligible to apply for New York State initial certification in Childhood, Grades 1-6, with a Bilingual Teacher Extension.

Education Course Requirements		40-41
Foundations Sequence		16-17
EDUC280	Child and Adolescent Development for Teachers	3
EDUC281	Field Experiences in Childhood and Adolescent Development	1
EDUC283	Educational Psychology: Effective Teaching and Learning	3
PHIL202	Major Ideas and Issues in Education	3
SOC202	Major Ideas and Issues in Education	3
AC101	Introduction to Microcomputers I	0-1
AC230	Teaching with Multimedia Technology	2
MATH271	Mathematics for Elementary School Teachers	4
Professional Education Sequence		19
EDUC269	Theories of Bilingualism and Bilingual Education in the Urban School	3
EDUC312	Literacy Instruction and Children's Literature in the Early and Primary Years	3
EDUC317	Curriculum and Methods in Elementary Education: Science	2
EDUC318	Curriculum and Methods in Health and Physical Education	2
EDUC323	Curriculum and Methods in Elementary Education: Mathematics	2
EDUC333	Constructing Social Studies Relationships through the Expressive Arts	2
EDUC345	Teaching English as a Second Language through the Content Areas	2
EDUC351	Teaching Reading and Spanish Language Arts in Bilingual Contexts	3
Student Teaching and Student Teaching Seminar		6
EDUC431	Supervised Student Teaching, Grades 1-3*	3
EDUC432	Supervised Student Teaching, Grades 4-6*	3

*One of the student teaching placements must be in a bilingual setting.

Childhood Education Program with a Middle School Extension (BA)

HEGIS Code 0000

Requirements		43
AC101	Introduction to Microcomputers	1
AC230	Teaching with Multimedia Technology	2
MATH271	Mathematics for Elementary School Teachers	4

Requirements		43
EDUC280	Child and Adolescent Development for Teachers	3
EDUC281	Fieldwork in Educational Environments	1
EDUC283	Educational Psychology: Effective Teaching/Learning	3
EDUC312	Literacy Instruction and Children's Literature in the Early and Primary Years	3
EDUC314	Content Area Literacy Instruction and Children's Literature for Beginning and Independent Readers (Grades 2-6)	3
EDUC317	Curriculum & Methods in Elementary Education: Science	2
EDUC318	Curriculum & Methods in Health and Physical Education for the Elementary School	2
EDUC323	Curriculum & Methods in Elementary Education: Mathematics	2
EDUC333	Constructing Social Studies Relationships Through the Expressive Arts	2
EDUC431	Supervised Student Teaching Grades 1-3	3
EDUC432	Supervised Student Teaching Grades 4-6	3
EDUC271	Adolescent Development in Middle and High Schools*	3
EDUC352	Instructional Strategies in Middle and High Schools*	3

Choose one of the Following

PHIL202	Major Ideas and Issues in Education	3
SOC202	Major Ideas and Issues in Education	3

Certificate Program Child and Youth Workers (Certificate Program)

HEGIS Code 0000

Certificate Program for Child and Youth Workers Course Literacy for College Studies, if needed*		19-20
ENG125	Introduction to College Writing	4
AC230	Teaching with Multimedia Technology (prereq AC 101, 0-1 credits)	2-3
YD280	Youth Development: Theory and Practice	3
YD283	Building Learning Communities	3
YD290	Action Research for Educators	2
HE317	First Aid and Safety Education (coreq HE 200, 2 credits)	4
Choose one of the following		
PE311	Creative Rhythms and Dance for Children	1
PE313	Games and Sports for Children	1

* Literacy for College Studies, if needed (through Continuing Education); 0 credits.

This course provides students with the opportunity to develop and sharpen their literacy skills for college studies.

Since the course is geared towards those entering the Certificate for Child and Youth Workers, literacy activities will be contextualized in readings of youth studies and development.

Literacy is broadly defined here as involving skills for communicating in a technologically and culturally diverse society.

Through a series of activities students will sharpen their skills in the following five areas: Reading and Writing, Critical Thinking, Technology, Study Skills and Time Management.

Rather than being treated as separate topics of study, each of these skill areas is embedded in each of the activities.

The activities done in class also support the competencies of youth workers by modeling activities that can be used with young people

This course meets the requirements for AC 101 or comparable knowledge and skills in academic computing. Equivalent courses taken in other disciplines or at other institutions may be eligible for credit, not to exceed eight credits.

AAS

AAS101 Introduction to African-American Studies 3 crs. 3 hrs. *Preq:* The human condition and experience of Black people in the United States; emphasis on cultural and historical perspectives.

AAS172 Introduction to Africa 3 crs. 3 hrs. *Preq:* A basic examination of the continent from various points of view: its geography, its peoples and highlights of their history, conflicts of culture in Africa, modern political, social, and economic problems facing the continent.

AAS203 Famous Black Men and Women 3 crs. 3 hrs. *Preq:* ENG 125, and any six credits from the following: AAS 101, AAS 172, ANTH 101, CLDV 201, HIST 272, SOC 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.*

AAS220 Western African Literature in English 3 crs. 3 hrs. *Preq:* AAS 172 and ENG 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.*

AAS221 East and Southern African Literature *Please contact the department chair for more information regarding the availability of this course.*

AAS230 The Contemporary African 3 crs. 3 hrs. *Preq:* AAS 172 and ENG 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.*

AAS242 The Black Family 3 crs. 3 hrs. *Preq:* AAS 101 and ENG 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.

AAS243 The Black Ghetto 3 crs. 3 hrs. *Preq:* AAS 101. The social and economic realities of Black ghetto communities; the psychological impact of these realities on the Black child insofar as they define his relationship to his parents, brothers, and sisters, his general view of life, and determine his future adult life. *Not offered on a regular basis. Availability to be determined by the department.*

AAS245 The Black Church 3 crs. 3 hrs. *Preq:* AAS 101 and ENG 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.

AAS261 Folklore: The African in America 3 crs. 3 hrs. *Preq:* ENG 125, and any six credits from the following: AAS 101, AAS 172, ANTH 101, CLDV 201, HIST 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.*

AAS265 Black Revolutionary Thought 3 crs. 3 hrs. *Preq:* ENG 125, AAS 101 or AAS 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.

AAS285 The Urbanization of the American Black 3 crs. 3 hrs. *Preq:* AAS 101 and ENG 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.*

AAS322 Caribbean Literature (In Translation) 3 crs. 3 hrs. *Preq:* 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.*

AAS323 Mass Media and the Black Community 3 crs. 3 hrs. *Preq:* Junior status and ENG 125. Critical examination of the role of mass media plays in the African-American community, focusing on ownership, access and image making.

AAS325 Historiography in Black Studies 3 crs. 3 hrs. *Preq:* ENG 125, and any twelve credits from the following: AAS 101, AAS 172, ANTH 101, CLDV 201, HIST 272, SOC 101, POL 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.

AAS331 The Civil Rights Movement in America 3 crs. 3 hrs. *Preq:* ENG 125, and AAS 101 or HIST 272. An examination of the major events, key personalities, and organizations in the history of the movement.

AAS341 Black Experience in the Caribbean 3 crs. 3 hrs. *Preq:* ENG 125, and ANTH 243 or AAS 101 and AAS 172. A basic historical examination of the African experience in the Caribbean; emphasis on the political, economic and social problems facing the region.

AAS342 Third-World Consciousness in Africa 3 crs. 3 hrs. *Preq:* ENG 125, AAS 101 and AAS 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.*

AAS343 The Contemporary Black Experience in South Africa 3 crs. 3 hrs. *Preq:* ENG 125, AAS 101 and AAS 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.

AAS354 The Role of Blacks in the American Economy 3 crs. 3 hrs. *Preq:* AAS 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.*

AAS360 Black American Culture 3 crs. 3 hrs. *Preq:* AAS 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.*

AAS401 Seminar 3 crs. 3 hrs. *Preq:* Junior status and WRIT 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.*

AC

AC101 Introduction to Microcomputers I 1 crs. 1.5 hrs. *Preq:* Hands-on introduction to the components and operation of microcomputers. The students 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. *30 minutes lecture, 1 hour laboratory.*

AC102 Introduction to Microcomputers II 1 crs. 3 hrs. *Preq:* AC 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. *1 hour lecture, 2 hours laboratory for seven weeks plus two additional laboratory hours TBA.*

ACC201 Computer Applications 3 crs. 3 hrs. *Preq:* AC 101 or departmental permission. 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. **Not open to students with credit in BUS 201.** Students will be required to complete weekly assignments using the microcomputer.

ACC210 Microcomputer Applications Please contact the department chair for further information on this course.

ACC250 Advanced Microcomputer Applications Please contact the department chair for further information on this course.

ACC230 Teaching with Multimedia Technology 2 crs. 4 hrs. *Preq:* AC 101. 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 understanding NYS K-12 learning standards for technology. Students design curriculum integrating the Internet and student-produced multimedia projects. **Not open to students with credit in AC 250.**

ACC

ACC101 Accounting I 4 crs. 4 hrs. *Preq:* Completion of MATH 011, MATH 020, or MATH 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. (Formerly ECON 182)

ACC102 Accounting II 4 crs. 4 hrs. *Preq:* ACC 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. (Formerly ECON 183)

ACC201 Intermediate Accounting I 3 crs. 4 hrs. *Preq:* ACC 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. (Formerly ECON 280)

ACC202 Intermediate Accounting II 3 crs. 4 hrs. *Preq:* ACC 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. (Formerly ECON 286)

ACC210 Computer Applications in Accounting 3 crs. 4 hrs. *Preq:* ACC 102 and BUS 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. 2 hours lecture, 2 hours laboratory.

ACC301 Advanced Financial Accounting 4 crs. 4 hrs. *Preq:* ACC 202. Advanced financial accounting theory and practice: branches, combinations, investor accounting, consolidations, partnerships, contemporary accounting problems. Emphasis on professional pronouncements and CPA examination problems. (Formerly ECON 288)

ACC335 Auditing I 3 crs. 3 hrs. *Preq:* ACC 202. Analysis of auditing concepts, standards, procedures, ethics, responsibility, independence of public accountants, audit program, scope, evidence, and statistical sampling. **Not open to students with credit in ACC 305 or ECON 287. A term report is required.**

ACC336 Auditing II 2 crs. 2 hrs. *Preq:* ACC 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.

ACC345 Cost Accounting I 3 crs. 3 hrs. *Preq:* ACC 201. 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. **Not open to students with credit in ACC 314 or ECON 384.**

ACC346 Cost Accounting II 2 crs. 2 hrs. *Preq:* ACC 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.

ACC350 Income Taxation 3 crs. 3 hrs. *Preq:* ACC 201. Concepts and laws of taxable income, exemptions and deductions; emphasis on Federal and State income taxes including practical exercises. (Formerly ECON 285) Students with credit in ACC 250 should substitute ACC 351 for ACC 350.

ACC351 Advanced Income Taxation 4 crs. 4 hrs. *Preq:* ACC 350. Advanced Income Taxation including discussions of advanced corporate, foreign, estate and gift taxation, and other specialized areas. *Requires preparing a research paper.*

ACC355 Taxation of Trusts and Estates 3 crs. 3 hrs. *Preq:* ACC 350 or equivalent. This course explores the taxation of trust and estate entities using the life cycle approach. Topics include: Outline of the estate law, deductions and credits, tax calculation, valuation, types of trusts, and income concepts. 3 hours lecture.

ACC381 Advanced Accounting Problems 3 crs. 3 hrs. *Preq:* ACC 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.

ANTH

ANTH101 Introduction to Cultural Anthropology 3 crs. 3 hrs. *Preq:* Basic concepts of cultural anthropology, with illustrative material drawn from ethnographic studies of band, tribal, and peasant societies. Course sections are offered as both in class courses and as asynchronous online courses. Online sections of this course will use the Blackboard course management system. Students must have an email account, access to the Internet, and use word processing software.

ANTH103 Introduction to Physical Anthropology and Archaeology 3 crs. 4 hrs. *Preq:* Basic concepts and theories of physical anthropology and archaeology. Survey of the evidence for human physical and cultural evolution in prehistoric times. 2 hours lecture, 2 hours laboratory. Field trips may be required.

ANTH152 Medical Anthropology 3 crs. 3 hrs. *Preq:* The relationship of culture to nutrition and disease and an analysis of primitive and folk medical practices. **Not open to students with credit in ANTH 252 or ANTH 352.**

ANTH201 Ethnopsychiatry 3 crs. 3 hrs. *Preq:* ANTH 101 or ANTH 152, or PSY 102, or PSY 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.*

ANTH205 Anthropology of Sex 3 crs. 3 hrs. *Preq:* ANTH 101. The basic assumption behind this course is that cultures are symbolic 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.*

ANTH211 URBAN ANTHROPOLOGY 3 crs. 3 hrs. *Preq:* ANTH 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. Some sections of this course are offered as an asynchronous online course using the Blackboard course management system. Students must have an email account, access to the Internet, and use word processing software. *Not offered on a regular basis. Availability to be determined by the department.*

ANTH220 Social Research I 3 crs. 4 hrs. *Preq: ANTH 101.* 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. **Not open to students with credit in SOC 220 or SCWK 350.** 2 hours lecture, 2 hours laboratory.

ANTH222 The Archaeology of Early Man 3 crs. 3 hrs. *Preq: ANTH 103 or permission of instructor.* Biological, cultural and behavioral evolution from human origins to the beginnings of food production in the New and Old World. **Not open to students with credit in both ANTH 231 and ANTH 232.** Field trips may be required. Not offered on a regular basis. Availability to be determined by the department.

ANTH223 The Rise of Civilization 3 crs. 3 hrs. *Preq: ANTH 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.

ANTH234 Applied Anthropology 3 crs. 3 hrs. *Preq:* 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.

ANTH235 Economic Anthropology 3 crs. 3 hrs. *Preq: ANTH 101, or ECON 101, or ECON 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.

ANTH241 Ethnology of Africa 3 crs. 3 hrs. *Preq: ANTH 101.* Survey of traditional and contemporary societies of a given area; their exposure to a changing world and their responses. **Not open to students with credit in ANTH 341.** Course sections may be offered as asynchronous online courses. This course will use the Blackboard course management system. Students must have an email account, access to the Internet, and use word processing software. Not offered on a regular basis. Availability to be determined by the department.

ANTH242 Ethnology and Ethnography of Major Culture Areas Asia 3 crs. 3 hrs. *Preq: ANTH 101.* Survey of traditional and contemporary societies of a given area; their exposure to a changing world and their responses. **Not open to students with credit in ANTH 341-348.** Not offered on a regular basis. Availability to be determined by the department.

ANTH243 Ethnology and Ethnography of Major Culture Areas: The Caribbean 3 crs. 3 hrs. *Preq: ANTH 101.* Survey of traditional and contemporary societies of a given area; their exposure to a changing world and their responses. **Not open to students with credit in ANTH 341-348.** Not offered on a regular basis. Availability to be determined by the department.

ANTH244 Ethnology of Latin America 3 crs. 3 hrs. *Preq: ANTH 101.* Survey of traditional and contemporary societies of a given area; their exposure to a changing world and their responses. **Not open to students with credit in ANTH 345.** Course sections may be offered as asynchronous online courses. This course will use the Blackboard course management system. Students must have an email account, access to the Internet, and use word processing software. Not offered on a regular basis. Availability to be determined by the department.

ANTH245 Ethnology and Ethnography of Major Culture Areas: The Mediterranean, Middle East 3 crs. 3 hrs. *Preq: ANTH 101.* Survey of traditional and contemporary societies of a given area; their exposure to a changing world and their responses. **Not open to students with credit in ANTH 341-348.** Not offered on a regular basis. Availability to be determined by the department.

ANTH246 Ethnology and Ethnography of Major Culture Areas North American Indians 3 crs. 3 hrs. *Preq: ANTH 101.* Survey of traditional and contemporary societies of a given area; their exposure to a changing world and their responses. **Not open to students with credit in ANTH 341-348.** Not offered on a regular basis. Availability to be determined by the department.

ANTH247 Ethnology and Ethnography of Major Culture Areas Oceania 3 crs. 3 hrs. *Preq: ANTH 101.* Survey of traditional and contemporary societies of a given area; their exposure to a changing world and their responses. **Not open to students with credit in ANTH 341-348.** Not offered on a regular basis. Availability to be determined by the department.

ANTH248 Ethnology and Ethnography of Major Culture Areas Europe 3 crs. 3 hrs. *Preq: ANTH 101.* Survey of traditional and contemporary societies of a given area; their exposure to a changing world and their responses. **Not open to students with credit in ANTH 341-348.** Not offered on a regular basis. Availability to be determined by the department.

ANTH249 Anthropology of Puerto Rico 3 crs. 3 hrs. *Preq: ANTH 101.* 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 open to students with credit in ANTH 349.** Not offered on a regular basis. Availability to be determined by the department.

ANTH301 Alcoholism and Obesity Cross-Culturally 3 crs. 3 hrs. *Preq: ANTH 101 or ANTH 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.

ANTH302 Anthropology of Aging 3 crs. 3 hrs. *Preq: 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.

ANTH310 Techniques of Cross-Culture Research 3 crs. 3 hrs. *Preq: 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.

ANTH315 Hunger and Agriculture in Developing Nations 3 crs. 3 hrs. *Preq: ANTH 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. Course sections may be offered as asynchronous online courses. This course will use the Blackboard course management system. Students must have an email account, access to the Internet, and use word processing software. Not offered on a regular basis. Availability to be determined by the department.

ANTH321 Social Research II 3 crs. 3 hrs. *Preq: ANTH 220 or SOC 220 or SCWK 350.* 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. **Not open to students with credit in SOC 321 or SCWK 470.**

ANTH350 Anthropology of Tourism 3 crs. 3 hrs. *Preq: ANTH 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.

ANTH361 Primitive Social Organization 3 crs. 3 hrs. *Preq: ANTH 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.

ANTH362 Social Organization of Complex Societies 3 crs. 3 hrs. *Preq: ANTH 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.

ANTH363 Political Anthropology 3 crs. 3 hrs. *Preq: ANTH 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.

ASTR

ANTH365 Cultural Systems of Population Control 3 crs. 3 hrs. *Preq: ANTH 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.*

ANTH380 Theory and Method in Anthropology 3 crs. 3 hrs. *Preq: ANTH 101 and sophomore status.* The development of anthropological theory and research methods, and the interrelationship of particular schools of thought with particular methods. **Not open to students with credit in ANTH 311 or ANTH 381.** *Not offered on a regular basis. Availability to be determined by the department.*

ANTH393 Anthropology of Religion 3 crs. 3 hrs. *Preq: ANTH 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.*

ANTH401 Seminar in Anthropology 3 crs. 3 hrs. *Preq: Selected topics in Anthropology announced prior to registration. Not offered on a regular basis. Availability to be determined by the department.*

ANTH402 Seminar in Anthropology 3 crs. 3 hrs. *Preq: Selected topics in Anthropology announced prior to registration. Not offered on a regular basis. Availability to be determined by the department.*

ANTH403 Seminar in Anthropology 3 crs. 3 hrs. *Preq: Selected topics in Anthropology announced prior to registration. Not offered on a regular basis. Availability to be determined by the department.*

ANTH442 Culture and Personality 3 crs. 3 hrs. *Preq: ANTH 101.* An examination of relationships between individual psychological functioning and socio-cultural processes, with examples drawn from primitive, peasant, and modern societies. *Course is offered as an asynchronous online course using the Blackboard course management system. Students must have an email account, access to the Internet, and use word processing software. Not offered on a regular basis. Availability to be determined by the department.*

ANTH451 Ecological Anthropology 3 crs. 3 hrs. *Preq: ANTH 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.*

ANTH490 Independent Study 3 crs. 0 hrs. *Preq: 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. *Hours arranged.*

ANTH491 Independent Study 2 crs. 0 hrs. *Preq: 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. *Hours arranged.*

ANTH492 Independent Study 1 crs. 0 hrs. *Preq: 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. *Hours arranged.*

ANTH495 Summer Field Experience 3 crs. 0 hrs. *Preq: 9 credits in Anthropology or permission of instructor.* Summer field training programs in anthropology conducted by approved institutions. *Hours arranged. Interested students should 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.*

ANTH496 Summer Field Experience 3 crs. 0 hrs. *Preq: 9 credits in Anthropology or permission of instructor.* Summer field training programs in anthropology conducted by approved institutions. *Hours arranged. Interested students should 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.*

ASTR101 Introductory Astronomy: The Sun and Planets 3 crs. 3 hrs. *Preq: 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. Not open for students with credit in ASTR 111.* *Laboratory, computer and observatory exercises will be used, including at least one night time lab.*

ASTR102 Introductory Astronomy: Stars, Galaxies and the Universe 3 crs. 3 hrs. *Preq: 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. Not open to students with credit in ASTR 121.*

ASTR111 Life Among the Planets, Moons and Comets 3 crs. 3 hrs. *Preq: Possible location of life in the solar system; the structure of the planets and their moons, the birth of the solar system and its future; the temperature, surface conditions, atmosphere and internal structure of the planets and their moons; magnetism in the solar system; the space program, potential space travel, comets, asteroids, meteors, gegenschein and interplanetary dust. Not credited toward fulfillment of Physics Major Requirements.* *Field trip required.*

ASTR121 Satellites, Stars, Galaxies 3 crs. 3 hrs. *Preq: Introductory astronomy stressing the properties of extraterrestrial objects such as their composition and evolution; black holes, quasars, Big Bang versus steady state view of the creation, main sequence and variable stars, galaxies, and life in outer space. Not credited toward fulfillment of Physics Major Requirements.* *Field trip required.*

ASTR131 Life of a Star 3 crs. 3 hrs. *Preq: Completion of Science Area Requirements.* The special characteristics of stars and star systems will be examined; exploding stars, flare stars, magnetic stars, neutron stars, super nova, white dwarfs, pulsars and black holes will be discussed in detail; rapidly rotating stars, Wolf Rayet, Mira, Cepheids are among the groups of stars considered; the physical environment of the galaxy in the neighborhood of the star along with the possibility of the existence of planets and life forms will be examined. **Not credited towards fulfillment of Physics Major Requirements.** *Not offered on a regular basis. Availability to be determined by the department.*

ASTR140 Introductory Astronomy: Observations of the Sky 3 crs. 4 hrs. *Preq: 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. 2 hours lecture, 2 hours laboratory.*

ASTR201 The Solar System 4 crs. 5 hrs. *Preq: MATH 121 MATH 121A* 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 the stars. *Laboratory, computer and observatory exercises will be used, including at least one night-time lab. 3 hours lecture, 2 hours laboratory.*

ASTR202 Stars and the Milky Way 4 crs. 5 hrs. *Preq: MATH 121 MATH 121A* 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. 3 hours lecture, 2 hours laboratory.*

ASTR203 Introduction to Cosmology 4 crs. 5 hrs. *Req: MATH 121 MATH 121A* 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 the fate and content of Universe: dark matter, the density of in the cosmic microwave background radiation. *Laboratory, computer and observatory exercises will be used, including at least one nighttime lab. 3 hours lecture, 2 hours laboratory.*

ASTR301 Observational Astronomy 4 crs. 5 hrs. *Req: PHYS 107, PHYS 108, PHYS 101, PHYS 102, PHYS 151, or PHYS 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. *3 hours lecture, 2 hours laboratory.*

ASTR491 Astrophysics I: Planetary Astronomy 3 crs. 3 hrs. *Req: PHYS 351* Basic physics of plasmas; such as: identifying constellations; the apparent motion of the sky, orbital motions; the internal structure, atmospheres, magnetism and formation of the planets; dynamics of moons and rings; solar activity.

ASTR492 Astrophysics II: Stellar Astronomy 3 crs. 3 hrs. *Req: PHYS 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.

ASTR493 Astrophysics III: Extragalactic Astronomy 3 crs. 3 hrs. *Req: PHYS 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.

ASTR495 Independent Study 3 crs. 6 hrs. *Req: Permission of department prior to registration.* Independent Study under supervision of natural sciences faculty. **Not open to students with a combined total of 12 credits in Independent Study in the Natural Sciences Department.** *Minimum of 6 hours per week.*

ASTR496 Independent Study 3 crs. 6 hrs. *Req: Permission of department prior to registration.* Independent Study under supervision of natural sciences faculty. **Not open to students with a combined total of 12 credits in Independent Study in the Natural Sciences Department.** *Minimum of 6 hours per week.*

BIO

BIO110 Environmental Biology 3 crs. 3 hrs. *Req: 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. Not credited toward fulfillment of Biology major requirements. Not open to students with credit in a 200 level Biology course.*

BIO120 Principles of Inheritance and Human Reproduction 3 crs. 3 hrs. *Req: 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. Not credited toward fulfillment of Biology major requirements. Not open to students with credit in a 200 level Biology course.*

BIO130 Biology of the Brain and Behavior 3 crs. 3 hrs. *Req: Biology of the Brain and Behavior* introduces students to the structure and function of the nervous system as well as the biological concepts that underlie human thought, physiology and behavior. The fundamentals of neuroanatomy and neurophysiology are presented to provide the basis for understanding human cognition, learning and emotion. The goal of this course is to provide students, who may have little or no background in biology, with an understanding of the biological basis of human behavior.

BIO201 Biological Principles I 4 crs. 6 hrs. *Req: The biology of organisms, structure and function of plant and animal organ systems; plant and animal phylogeny; ecology and evolution. Experimental study of biological systems. 2 hours lecture, 1 hour recitation/preparatory, 3 hours auto tutorial laboratory.*

BIO202 Biological Principles II 4 crs. 6 hrs. *Req: BIO 201 and CHEM 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. *2 hours lecture, 1 hour recitation/preparatory, 3 hours auto tutorial laboratory.*

BIO231 Biology of Plants 4.5 crs. 6 hrs. *Req: BIO 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. *3 hours lecture, 3 hours laboratory.*

BIO234 Anatomy and Physiology I 4 crs. 6 hrs. *Req: CHEM 105 or CHEM 101.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. **Not credited toward fulfillment of Natural Science area requirements or Biology major requirements.** *2 hours lecture, 1 hour recitation, 3 hours laboratory.*

BIO235 Anatomy and Physiology II 4 crs. 6 hrs. *Req: BIO 234.* Continuation of Biology 234. Topics include: circulatory system, respiratory system, digestive system, reproductive and excretory systems. **Not credited toward fulfillment of Natural Science area requirements or Biology major requirements.** *2 hours lecture, 1 hour recitation, 3 hours laboratory.*

BIO265 Clinical Microbiology 3 crs. 4 hrs. *Req: CHEM 105 or CHEM 101. BIO 234.* 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. **Not credited towards fulfillment of Natural Science area requirements or Biology major requirements. Not open to students with credit in BIO 465.** *2 hours lecture, 2 hours laboratory.*

BIO281 Human Structure and Function 4 crs. 5 hrs. *Req: BIO 120.* 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. **Not credited toward fulfillment of Biology major requirements and Natural Science Area Requirements.** *Designed for students in Physical Education and Health Education. 3 hours lecture, 2 hours laboratory.*

BIO283 The Biology of Aging 3 crs. 3 hrs. *Req: GERO 101.* 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. **Not credited toward fulfillment of Biology majors and Natural Science Area Requirement.**

BIO307 Biostatistics 3 crs. 4 hrs. *Req: Completion of Instrumental Math Requirement. BIO 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 FREN to data analysis. 2 hours lecture, 2 hours laboratory.

BIO308 Invertebrate Biology 4.5 crs. 6 hrs. *Req: BIO 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. 3 hours lecture, 3 hours laboratory.

BIO309 Biology of the Chordates 4.5 crs. 6 hrs. *Req: BIO 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. 3 hours lecture, 3 hours laboratory. *Trips to museums, aquariums, and zoos.*

BIO320 Cell Biology. 3 hrs. lecture; 3 hrs. lab.; 4.5 cr. Prereq: Biology 202 Not open for students with credit in Bio 445 Examination of 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.

BIO325 Histology 4.5 crs. 6 hrs. *Req: BIO 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.* 3 hours lecture, 3 hours laboratory.

BIO334 Comparative Physiology 4.5 crs. 6 hrs. *Req: BIO 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. 3 hours lecture, 3 hours laboratory.

BIO336 Pathophysiology 3 crs. 3 hrs. *Req: BIO 234, BIO 235 and CHEM 105.* The study of mechanisms by which disease processes occur in the human body. Responses of the organ systems to the pathophysiologic condition and how these differ from the normal function. Emphasis will be placed on structural and functional disorders of the various biological systems. **Not credited toward fulfillment of Biology major requirements.** *This course is designed for students in the B.S. nursing program but is open to interested students who meet the requirements.*

BIO343 Laboratory Exercises in Genetics 2 crs. 4 hrs. *Req: BIO 344, WRIT 301, WRIT 302 or WRIT 303. BIO 344, WRIT 301, WRIT 302 or WRIT 303.* Modern experiments in genetics; Bacterial conjugation; gene expression and regulation; DNA cloning and amplification; Human DNA analysis. *This is a Writing Intensive course.*

BIO344 Molecular and General Genetics 4 crs. 4 hrs. *Req: BIO 202, CHEM 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 chromosome 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.

BIO382 Nutrition 2 crs. 2 hrs. *Req: BIO 234, BIO 235. CHM 105 or 101.* 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 credited toward fulfillment of Biology major requirements.** *Not offered on a regular basis. Availability to be determined by the department.*

BIO403 Ecology 4.5 crs. 6 hrs. *Req: BIO 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. 3 hours lecture, 3 hours laboratory. *Laboratory and field work will consist of studying those physical, chemical and biological techniques which are useful in environmental analysis.*

BIO412 Biochemistry 3 crs. 3 hrs. *Req: BIO 202; CHEM 231 and CHEM 232 or CHEM 230.* 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. **Not open to students with credit in CHEM 412.**

BIO415 Biochemistry and Molecular Biology 2 crs. 4 hrs. *Req: BIO 412, or CHEM 412. BIO 412, or CHEM 412.* Model building and wet lab experiments to introduce the fundamentals of nucleic acids and proteins: structure, measurements and manipulations; intermediary metabolism. 4 hours laboratory.

BIO445 Cell and Molecular Biology 4.5 crs. 6 hrs. *Req: BIO 343 and BIO 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. 3 hours lecture, 3 hours laboratory.

BIO452 Developmental Biology 4.5 crs. 6 hrs. *Req: BIO 344 and BIO 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. 3 hours lecture, 3 hours laboratory.

BIO465 Microbiology 4.5 crs. 6 hrs. *Req: BIO 202; CHEM 230 and CHEM 235 or CHEM 231 and CHEM 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. 3 hours lecture, 3 hours laboratory.

BIO466 Immunology 4.5 crs. 6 hrs. *Req: BIO 202; CHEM 230 and CHEM 235 or CHEM 231 and CHEM 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. 3 hours lecture, 3 hours laboratory.

BIO480 Theory and Experimentation in Biotechnology 5 crs. 7 hrs. *Req: BIO 343, BIO 412, WRIT 301, WRIT 302 or WRIT 303.* 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, radiolabeling technique, scintillation counting, radio immuno-assays, immunological microtechniques, electrophoresis and isoelectric focusing in bio-chemical analysis and purification will be examined. **Not open to students with credit for BIO 480.** *This is a Writing Intensive course.*

BIO485 Special Topics in Biology 3 crs. 0 hrs. *Req: BIO 202, Junior status in Biology.* Intensive study of an advanced biological topic. *Lecture, laboratory hours to be arranged. 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.*

BIO486 Special Topics in Biology 3 crs. 0 hrs. *Req: BIO 202, Junior status in Biology.* Intensive study of an advanced biological topic. *Lecture, laboratory hours to be arranged. 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.*

BIO487 Special Topics in Biology 3 crs. 0 hrs. *Prq: BIO 202, Junior status in Biology.* Intensive study of an advanced biological topic. Lecture, laboratory hours to be arranged. 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.

BIO488 Special Topics in Biology 3 crs. 0 hrs. *Prq: BIO 202, Junior status in Biology.* Intensive study of an advanced biological topic. Lecture, laboratory hours to be arranged. 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.

BIO490 Independent Study 3 crs. 6 hrs. *Prq: Permission of instructor prior to registration.* Independent research in an area of mutual interest to students and a faculty member. 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.

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BIO493 Independent Study 3 crs. 6 hrs. *Prq: Permission of instructor prior to registration.* Independent research in an area of mutual interest to students and a faculty member. 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.

BTEC

BTEC203 Introduction to Biotechnology 2 crs. 2 hrs. *Prq: BIO 202, CHEM 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.

BTEC241 Instrumental Methods for Biotechnology 3 crs. 5 hrs. *Prq: BTEC 203.* Introduction to 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. 1 hour lecture, 4 hours laboratory.

BTEC350 Computational Biology and Molecular Design 3 crs. 4 hrs. *Prq: BTEC 203, BIO 344, CHEM 233 and MATH 121 (or MATH 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. 2 hours lecture, 2 hours laboratory. Lecture presentations will be augmented with computer-based laboratory instruction.

BTEC352 Bioinformatics 3 crs. 4 hrs. *Prq: BTEC 203, BIO 344, CHEM 233 and MATH 121 (or MATH 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. 2 hours lecture, 2 hours laboratory.

BTEC485 Selected Topics in Industrial Biotechnology 1 crs. 1 hrs. *Prq: 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. 1 lecture hour. Students will also be required to prepare brief presentations on current topics.

BUS

BUS201 Computer Applications in Business 3 crs. 4 hrs. *Prq: ACC 101 and ACC 102.* Design and implementation of computerized information systems. Applications include computerized spreadsheets, word processing, graphics, and data base management. **Not open to students with credit in ACC 201.** 2 hours lecture, 2 hours laboratory.

BUS202 Introduction to Management Information Systems 3 crs. 3 hrs. *Prq: 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. **Not open to students with credit in BUS 402.**

BUS230 Introduction to the Aviation Business 3 crs. 3 hrs. *Prq: ECON 102 or Department permission required.* A general survey of the field of aviation business. The course will include a historical overview of the development of aviation and will survey various aspects of the airline industry such as regulation, the organization and management of aviation businesses (particularly airlines), airline marketing, airfreight and modes of competition in the airline and aircraft industry.

BUS235 Airport Planning and Management 3 crs. 3 hrs. *Prq: ECON 102.* A comprehensive analysis of the planning process and managerial and operations functions pertaining to management of an airport. The course will cover airports in general; airport system planning; site selection, layout and land use; access airport capacity and delay; financial planning and management; airport operations.

BUS283 Business Law I 3 crs. 3 hrs. *Prq: ECON 102.* Origin and development of Business Law, its theory and application; Law of contracts, bailments, sales; particular emphasis on New York State Law. (Formerly ECON 283)

BUS284 Business Law II 3 crs. 3 hrs. *Prq: BUS 283 or ECON 283.* Law of business organizations; agencies and partnerships, corporations, negotiable instruments. (Formerly ECON 284)

BUS301 Management Theory and Practice 3 crs. 3 hrs. *Prq: ECON 102. Additional prerequisite for Business Administration, Marketing, and Information Systems Management majors: COOP 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. (Formerly ECON 381)

BUS302 Introduction to International Business 3 crs. 3 hrs. *Prq: ECON 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.

BUS303 Office Information Systems 3 crs. 3 hrs. *Preq: BUS 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.

BUS311 Personnel Management 3 crs. 3 hrs. *Preq: BUS 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. (Formerly ECON 281)

BUS312 Staff Supervision and Employee Relations 3 crs. 3 hrs. *Preq: BUS 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.*

BUS315 Health Care Management 3 crs. 3 hrs. *Preq: BUS 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.

BUS321 Business Finance 3 crs. 3 hrs. *Preq: ECON 102, MATH 115, ACC 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.

BUS322 Investment and Security Analysis 3 crs. 3 hrs. *Preq: ECON 102, ECON 220, and ACC 101.* Introduction to investment and securities; analysis of various types of securities, investment portfolio, management, and security selection; emphasis on new concepts and techniques. (Formerly ECON 382) *Not offered on a regular basis. Availability to be determined by the department.*

BUS325 Introduction to Mortgage Banking 3 crs. 3 hrs. *Preq: BUS 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.

BUS326 Computer Applications in Mortgage Finance 3 crs. 3 hrs. *Preq: BUS 325 and knowledge of word processing and spreadsheet applications.* 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. **Not open to students with credit in BUS 201.** 3 hours lecture.

BUS327 Diversity Awareness and Customer Service in Mortgage Lending 3 crs. 3 hrs. *Preq: BUS 301.* 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. **Not open to students with credit in CLDV 101.** 3 hours lecture.

BUS328 Fair Housing and Fair Lending Laws 3 crs. 3 hrs. *Preq: BUS 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. 3 hours lecture.

BUS330. Aviation Operations. 3 Hrs. Lecture, 3 Crs., Prereq: Economics 102 or Department permission required. During this course, the student will gain an understanding of the conduct of professional flight operations, including those of air carriers, corporation, FBOs, and the military. The student will become familiar with aircraft types, air routes, personnel, information systems, federal regulations, and safety.

BUS348 Production/Operations Management 3 crs. 3 hrs. *Preq: BUS 301, ECON 220, MATH 115.* Planning, control, and evaluation of production and operations functions in any type of firm; management decision making, scheduling, inventory control, and productivity analysis.

BUS349 Small Business Management 3 crs. 3 hrs. *Preq: BUS 301, BUS 341, and ACC 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.*

BUS351 Sales Management Please contact the department chair for further information on this course.

BUS361 Wage and Salary Administration 3 crs. 3 hrs. *Preq: BUS 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.*

BUS402 Management Information Systems 3 crs. 3 hrs. *Preq: BUS 301, ACC 102, MATH 115, or MATH 121 or MATH 184 and CS 291.* 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.

BUS425 Mortgage Loan Servicing 3 crs. 3 hrs. *Preq: BUS 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. 3 hours lecture.

BUS426 Lending Programs for Affordable Housing 3 crs. 3 hrs. *Preq: BUS 325 and BUS 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 homeownership and related sources of funds, types of mortgages and various community lending products, non-traditional underwriting guidelines and homebuyer education and counseling. 3 hours lecture.

BUS481 Business Policy 3 crs. 3 hrs. *Preq: Completion of all other course requirements in major field.* 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. **Open to seniors only.**

BUS491 Independent Study in Management 3 crs. 3 hrs. *Preq: Junior status and permission of instructor.* In-depth investigation of management problem of the students choice with faculty approval and guidance.

CHEM

CHEM101 Chemical Principles I 5 crs. 7 hrs. *Preq: MATH 120.* Introduction to chemical principles and concepts. Topics include: stoichiometry, gases, liquids, solids, solutions and equilibrium. 3 hours lecture, 1 hour problem laboratory, 3 hours laboratory.

CHEM102 Chemical Principles II 5 crs. 7 hrs. *Preq: CHEM 101.* A continuation of Chemistry 101. Topics include: thermodynamics, kinetics, equilibrium, buffers, titrations, redox reactions, electrochemistry. 3 hours lecture, 1 hour problem laboratory, 3 hours laboratory.

CHEM105 Essentials of College Chemistry 5 crs. 7 hrs. *Preq: Mathematics 104 or Mathematics 120 or placement by the Mathematics Department in Mathematics 121. Mathematics 121.* 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. 3 hours lecture, 4 hours laboratory.

CHEM120 Environmental Chemistry 3 crs. 3 hrs. *Preq:* 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. **Not credited toward fulfillment of Chemistry major requirements.** Offered Fall semesters. Not offered on a regular basis. Not open to students with credit in CHEM 101. Availability to be determined by the department.

CHEM121 Chemistry in Our Time 3 crs. 3 hrs. *Preq:* 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. **Not credited toward fulfillment of Chemistry major requirements. Not open to students with credit in CHEM 101.** Availability to be determined by the department. Not offered on a regular basis.

CHEM230 Essentials of Organic Chemistry 3 crs. 3 hrs. *Preq:* CHEM 102 or CHEM 105. 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. **Not credited toward fulfillment of Chemistry major requirements. Not open to students with credit in CHEM 231.**

CHEM231 Organic Chemistry I 3 crs. 3 hrs. *Preq:* CHEM 102. Introduction to modern concepts of organic chemistry; bonding, reaction theory, spectroscopy, stereochemistry and nomenclature, relationships between structure and reactivity.

CHEM232 Techniques of Organic Chemistry I 2 crs. 4 hrs. *Preq:* CHEM 102. CHEM 231. Survey of currently used methods for isolation, purification, and characterization of organic compounds; application of chromatography, infrared spectroscopy, and distillation to experimental problems.

CHEM233 Organic Chemistry II 3 crs. 3 hrs. *Preq:* CHEM 231. Continuation of Chemistry 231; functional group reactivities, reaction mechanisms, and biologically significant compounds; emphasis on research methods and synthesis.

CHEM234 Techniques of Organic Chemistry II 2 crs. 4 hrs. *Preq:* CHEM 232. CHEM 233. Continuation of Chemistry 232; organic qualitative analysis, rational synthesis, and independent investigation.

CHEM235 Laboratory in Organic Chemistry 2 crs. 4 hrs. *Preq:* CHEM 230. Synthesis and purification procedures of organic chemicals including drugs, vitamins, dyes, etc. are stressed. Experiments will include product identification. **Not credited toward fulfillment of Chemistry major requirements. Not open to students with credit in CHEM 232.** 4 hours laboratory.

CHEM237 Toxicology 3 crs. 3 hrs. *Preq:* CHEM 230 or CHEM 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.

CHEM241 Instrumental Methods of Analysis 3 crs. 5 hrs. *Preq:* CHEM 102 and PHYS 103 and PHYS 105 or PHYS 103 and PHYS 107. 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. **Not credited toward fulfillment of Chemistry major requirements.** 1 hour lecture, 4 hours laboratory.

CHEM310 Inorganic Chemistry 3 crs. 3 hrs. *Preq:* CHEM 102. CHEM 321 or CHEM 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.

CHEM321 Physical Chemistry I 3 crs. 3 hrs. *Preq:* CHEM 102, MATH 122, and PHYS 106 or PHYS 108. Classical and molecular investigation of thermodynamics: laws of thermodynamics, thermochemistry, entropy, free energy, chemical equilibria, molecular energies, Boltzmann distribution, and electrochemistry.

CHEM322 Physical Chemistry II 3 crs. 3 hrs. *Preq:* CHEM 102, MATH 122, and PHYS 106 or PHYS 108. Introduction to quantum mechanics, chemical bonding, spectroscopy, chemical kinetics, and statistical mechanics.

CHEM330 Structure and Mechanism in Biochemistry 3 crs. 3 hrs. *Preq:* CHEM 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.

CHEM339 Heterocyclic Chemistry and Drug Chemistry 3 crs. 3 hrs. *Preq:* CHEM 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.

CHEM341 Instrumental Analysis I 3 crs. 6 hrs. *Preq:* CHEM 233, CHEM 234. CHEM 321. Modern chemical analysis: titrations, chromatography, mass spectrometry, electroanalytical and bioanalytical methods. Use of spreadsheets in data analysis. 6 hours laboratory.

CHEM342 Instrumental Analysis II 3 crs. 6 hrs. *Preq:* CHEM 233, CHEM 234. CHEM 322. Instrumental techniques with an emphasis on spectroscopy: UV-visible, IR and atomic absorption, NMR, fluorescence. Molecular modeling. 6 hours laboratory.

CHEM401 Independent Study 1 crs. 0 hrs. *Preq:* Permission of the instructor. Individually guided study of an advanced topic in chemistry. Hours arranged.

CHEM412 Biochemistry 3 crs. 3 hrs. *Preq:* BIO 202, CHEM 231 and CHEM 232 or CHEM 230 and CHEM 235. 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. **Not open to students with credit in BIO 412.**

CHEM421 Physical-Inorganic Laboratory 3 crs. 6 hrs. *Preq:* CHEM 310, CHEM 341, CHEM 342. WRITE 302. Integrated approach to modern experimental techniques in inorganic and physical chemistry: electrochemistry, thermodynamics, kinetics, inorganic synthesis, advanced spectroscopy, advanced molecular modeling. This is a writing intensive course.

CHEM450 Advanced Topics in Chemistry 3 crs. 3 hrs. *Preq:* CHEM 310, CHEM 321. CHEM 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.

CHEM485 Special Topics in Chemistry 3 crs. 6 hrs. *Preq:* CHEM 233, Junior status. Intensive study in advanced chemical topics and experimental methods. 6 hours laboratory. Not offered on a regular basis. Availability to be determined by the department.

CHEM490 Independent Study 3 crs. 6 hrs. *Preq:* Permission of instructor prior to registration. Individually guided investigation of an advanced topic in chemistry. 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, or summer session. Minimum 6 hours per week.

CHEM491 Independent Study 3 crs. 6 hrs. *Preq:* Permission of instructor prior to registration. Individually guided investigation of an advanced topic in chemistry. 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, or summer session. Minimum 6 hours per week.*

CHEM492 Independent Study 3 crs. 6 hrs. *Preq:* Permission of instructor prior to registration. Individually guided investigation of an advanced topic in chemistry. 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, or summer session. Minimum 6 hours per week.*

CHEM493 Independent Study 3 crs. 6 hrs. *Preq:* Permission of instructor prior to registration. Individually guided investigation of an advanced topic in chemistry. 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, or summer session. Minimum 6 hours per week.*

CHIN

CHIN101 Elementary Chinese I 4 crs. 4 hrs. *Preq:* Basic principles of a beginner's course; designed to give the foundations of the language.

CHIN102 Elementary Chinese II 4 crs. 4 hrs. *Preq:* CHIN 101. Continuation of the beginner's course; more complex grammatical structures, integrated readings and further practice in conversation.

CLDV

CLDV101 Understanding Cultural Diversity 3 crs. 4 hrs. *Preq:* ENG 105 and READ 111, or ENG 102. 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. *2 hours lecture, 2 hours laboratory.*

CLDV201 Cultures and Societies of the World: Africa, Latin America and the Caribbean 3 crs. 3 hrs. *Preq:* CLDV 101, ENG 125. *ENG 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.

CLDV202 Cultures and Societies of the World: The Far East and South East Asia 3 crs. 3 hrs. *Preq:* CLDV 101, ENG 125. *ENG 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.

CLDV203 Cultures and Societies of the World: Asia and the Middle East 3 crs. 3 hrs. *Preq:* CLDV 101, ENG 125. *ENG 125.* Study of the major post WW II 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.

CLDV210 Western Civilization 3 crs. 3 hrs. *Preq:* ENG 125, CLDV 101. The course uses selected texts from the thought and literature of the Biblical, Greco-Roman, Medieval, Renaissance, the Enlightenment, and Modern periods, including accessible writing about science. Every section of the course studies the same representative works of intellectual and artistic achievement. A history provides context and continuity for the primary readings in religion, science, philosophy, and literature. *This is a Writing Intensive course.*

COOP

COOP101 Co-op Orientation 1 crs. 2 hrs. *Preq:* Completion of all compensatory courses, General Education English Requirement, approval of Cooperative Education Committee; plus, for Business Administration and Marketing Majors: ACC 101, MATH 115, and a computer studies course; for Information Systems Management Majors (Computer Studies): ACC 101, MATH 115 and CS 172. 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. *Prerequisites may be waived by the Assistant Dean for Career Services.*

COOP111 Work Experience and Seminar I 3 crs. 255 hrs. *Preq:* COOP 101, SPCH 101, junior status, permission of Cooperative Education Committee. 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 students career field. *225 hours work experience, 2 hours seminar. Prerequisite may be waived by the Assistant Dean for Career Services.*

COOP200 Work Experience in Science I 3 crs. 225 hrs. *Preq:* COOP 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 students major field. Seminar attendance, a daily log and oral and written reports on the work experience are required. *Minimum 225 hours work experience.*

COOP211 Work Experience and Seminar II 2 crs. 1 hrs. *Preq:* COOP 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. *Minimum 225 hours work experience, 1 hour seminar.*

COOP300 Work Experience in Science II 3 crs. 15 hrs. *Preq:* COOP 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 students major field. Seminar attendance, a daily log and oral and written reports on the work experience are required. *Minimum 225 hours work experience.*

COOP311 Work Experience and Seminar III 3 crs. 226 hrs. *Preq: COOP 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. *225 hours work experience, 1 hour seminar.*

COOP400 Work Experience in Science III 3 crs. 15 hrs. *Preq: COOP 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 students major field. Seminar attendance, a daily log and oral and written reports on the work experience are required. *Minimum 225 hours work experience.*

COOP411 Work Experience and Seminar IV 3 crs. 226 hrs. *Preq: COOP 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. *225 hours work experience, 1 hour seminar.*

CRE

CRE105 Intermediate Creole I 3 crs. 3 hrs. *Preq: Course in the Haitian Creole Language covering the fundamentals of reading, writing and speaking.* Emphasis will be placed on reading and writing. **Not open to students with credit in FREN 107 or FREN 207.** *Not offered on a regular basis. Availability to be determined by the department.*

CRE106 Intermediate Creole II 3 crs. 3 hrs. *Preq: CRE 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.

CRE205 Creole Writing and Composition 3 crs. 3 hrs. *Preq: CRE 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.

CRE208 Masterpieces in Haitian Creole Literature 3 crs. 3 hrs. *Preq: CRE 106.* The study and analysis of contemporary Creole literary works (novels, poetry & theater).

CRE241 Translation I 3 crs. 3 hrs. *Preq: CRE 106 and ENG 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.

CS

CS172 Computer Science I 4 crs. 4 hrs. *Preq: MATH 115 or MATH 121 or MATH 184.* Introduction to computer science with a strong emphasis on a systematic approach to problem solving; core principles of programming will be introduced and illustrated through examples in a high level programming language such as C++; applications in natural and social sciences, and finance. **Not open to students with credit in MATH 172.** *Students are expected to complete several laboratory assignments.*

CS261 Data Communications I 4 crs. 4 hrs. *Preq: MATH 141 or MATH 225, and CS 172.* Introduction to principles of data communication: modems, communications, software, controllers, industry protocols, and networks. **Not open to students with credit in MATH 493.**

CS291 Computer Science II 4 crs. 4 hrs. *Preq: CS 172. MATH 141 or MATH 225.* 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. **Not open to students with credit in MATH 291.**

CS292 Introduction to Data Base Management 4 crs. 4 hrs. *Preq: MATH 141 or MATH 225, and CS 172.* 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. **Not open to students with credit in MATH 292.**

CS300 Guided Study of Topics in Computer Science 1 crs. 1 hrs. *Preq: Departmental permission.* Independent study of selected topics in computer science under supervision of departmental faculty.

CS301 Guided Study of Topics in Computer Science 1 crs. 1 hrs. *Preq: Departmental permission.* Independent study of selected topics in computer science under supervision of departmental faculty.

CS334 Computer Graphics 3 crs. 3 hrs. *Preq: MATH 225 and CS 341.* Basic mathematical tools and computational techniques for modeling and displaying three-dimensional geometric objects; transformations in the plane and 3-space; representation of curves and surfaces; representation of solids; raster graphics; color; strategies for visible-surface determination; illumination and shading algorithms.

CS341 Algorithms and Data Structures 4 crs. 4 hrs. *Preq: MATH 141 or MATH 225, and CS 291.* Analysis of algorithms, fast sorting, searching, backtracking, linked structures, recursion, priority queues, trees, graph algorithms.

CS357 Principles of Programming Languages 4 crs. 4 hrs. *Preq: CS 341, MATH 225.* Design, implementation, syntax and semantics of imperative, object oriented, functional and logic programming languages. *4 hours lecture.*

CS361 Data Communications II 4 crs. 4 hrs. *Preq: CS 261.* 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. **Not open to students with credit in MATH 494.**

CS371 Business Programming 4 crs. 4 hrs. *Preq: MATH 291.* Use of the COBOL programming language for various file organization and processing techniques, including creating, sorting, searching, and the updating. Students are expected to complete several laboratory projects. **Not open to students with credit in Math 193.**

CS377 Artificial Intelligence 3 crs. 3 hrs. *Preq: MATH 225 and CS 341.* 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.

CS381 Software Development 4 crs. 4 hrs. *Preq: MATH 141 and CS 291.* 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. **Not open to students with credit in MATH 381.**

CS382 Software Engineering 3 crs. 3 hrs. *Preq: CS 381.* 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. **Not open to students with credit in MATH 382.**

CS391 Object-Oriented Programming 4 crs. 4 hrs. *Preq: 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).

CS392 Database Systems 4 crs. 4 hrs. *Req: CS 341 and CS 225, or CS 341 and CS 292.* Entity-Relationship model, relational algebra, relational calculus, SQL, integrity constraints, functional dependencies, normalization of data, storage and file structure, transactions, concurrency control. 4 hours lecture.

CS397 Assembly Language Programming 4 crs. 4 hrs. *Req: CS 291, the equivalent or permission of instructor.* Computer structure, number systems, registers and addressing systems; data manipulation; related topics; assembly language programming. **Not open to students with credit in MATH 397.** Students are expected to complete several laboratory assignments.

CS400 Independent Study of Selected Topics in Computer Science 2 crs. 2 hrs. *Req: Departmental permission* Independent study of selected advanced topics in computer science under supervision of departmental faculty.

CS401 Independent Study of Selected Topics in Computer Science 2 crs. 2 hrs. *Req: Departmental permission* Independent study of selected advanced topics in computer science under supervision of departmental faculty.

CS451 Operating Systems 4 crs. 4 hrs. *Req: 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.

CS452 Unix Operating System 3 crs. 3 hrs. *Req: CS 341 and CS 451.* An in-depth study of the design and implementation of the UNIX operating system, the data structures of the UNIX kernel and the UNIX file system. 3 hours lecture.

CS461 Network Computing 4 crs. 4 hrs. *Req: 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.

CS465 Cryptography and Network Security 3 crs. 3 hrs. *Req: CS 291 and MATH 225.* Ciphers, public and private keys, encryption and decryption, conventional encryption algorithms, modular arithmetic, Fermat and Euler theorems, RSA Algorithm, network security. 3 hours lecture.

CS471 Windows Programming 4 crs. 4 hrs. *Req: 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).

CS485 Computer Architecture 4 crs. 4 hrs. *Req: CS 397.* Logical devices and digital circuits, data representation, register transfer, central processor organization, microprogram control and organization. 4 hours lecture.

CS491 Advanced Topics in Computing/Information Systems Management 2 crs. 2 hrs. *Req: 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.

CS492 Advanced Topics in Computing/Information Systems Management 2 crs. 2 hrs. *Req: 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.

CS493 Advanced Topics in Computing/Information Systems Management 2 crs. 2 hrs. *Req: 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.

CS494 Advanced Topics in Computing/Information Systems Management 2 crs. 2 hrs. *Req: 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.

CS495 Advanced Topics in Computing/Information Systems Management 2 crs. 2 hrs. *Req: 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.

CS496 Advanced Topics in Computing/Information Systems Management 2 crs. 2 hrs. *Req: 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.

CS497 Advanced Topics in Computing/Information Systems Management 2 crs. 2 hrs. *Req: 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.

CS498 Advanced Topics in Computing/Information Systems Management 2 crs. 2 hrs. *Req: 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.

CS499 Advanced Topics in Computing/Information Systems Management 2 crs. 2 hrs. *Req: 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.

CT

CT101 Introduction to Video 3 crs. 4 hrs. *Preq: ENG 125. ENG 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. 2 hour lecture, 2 hours laboratory.

CT201 Foundations in Communications Technology 3 crs. 3 hrs. *Preq: ENG 125.* 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.

CT205 Principles of the Moving Image 3 crs. 3 hrs. *Preq: 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.

CT240 Studio Television Production 3 crs. 4 hrs. *Preq: CT 101.* Techniques in contemporary digital television production including multi-camera techniques, lighting, sound and post-production for studio elements as well as outside segment production. 2 hours lecture, 2 hours laboratory.

CT244 Multimedia Sound Production 3 crs. 4 hrs. *Preq: 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 multimedia projects with current audio software. 2 hours lecture, 2 hours laboratory.

CT345 Introduction to Motion Graphics 3 crs. 4 hrs. *Preq: CT 101, FA 284.* Introduction to the techniques of motion 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. 2 hours lecture, 2 hours laboratory.

CT355 Documentary Production 3 crs. 4 hrs. *Preq: CT 244, CT 240.* Fundamentals of video documentary production: pre-production planning, budgeting, scripting, shooting, 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 also included. 2 hours lecture; 2 hours laboratory.

CT360 Principles of Web Publishing 3 crs. 4 hrs. *Preq: FA 284.* Fundamental design theories and principles of web publishing. Topics include typography, layout, basic design, tables, frames, layers, digital image editing, adding page, and file formatting. Students will build web pages using current design software. 2 hours lecture, 2 hours laboratory.

CT370 Web Programming 3 crs. 3 hrs. *Preq: CS 172. CT 201. 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.*

CT380 Webcasting 3 crs. 4 hrs. *Preq: CT 101, CT 201.* 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. 2 hours lecture, 2 hours laboratory

CT381 Advanced Web Design 3 crs. 4 hrs. *Preq: 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 more compelling than others. 2 hours lecture, 2 hours laboratory. *Students are expected to plan, design, and construct a well thought-out web site.*

CT385 Multimedia Interface Design 3 crs. 4 hrs. *Preq: 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. 2 hours lecture, 2 hours laboratory. *Students will build an interface using current design and authoring applications.*

CT390 Online Communities 3 crs. 3 hrs. *Preq: CT 201.* Design, evaluation, and analysis of online communities, and their social, legal and educational dimensions.

CT391 Telecommunications in Transition 3 crs. 3 hrs. *Preq: CT 201.* 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.

CT401 Final Project/Senior Seminar 3 crs. 3 hrs. *Preq: CT 399, Writing 303, and permission of the department.* Final project based 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. *This is a writing intensive course.*

CT490 Internship 3 crs. 20 hrs. *Preq: CT 399 and 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. 20 hours/week or 300 hours/semester.

CT491 Internship 3 crs. 20 hrs. *Preq: 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. 20 hours/week or 300 hours/semester.

ECON

ECON101 Elementary Economic Analysis I 3 crs. 3 hrs. *Preq: ESL 130 or equivalent; MATH 010 or MATH 100; READ 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.

ECON102 Introduction to Microeconomics 3 crs. 3 hrs. *Preq:* 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.

ECON182 Accounting I 4 crs. 4 hrs. *Preq: Completion of MATH 011, MATH 020, or MATH 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.

ECON183 Accounting II 4 crs. 4 hrs. *Preq: ACC 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.

ECON200 Intermediate Microeconomics 3 crs. 3 hrs. *Preq: ECON 102 and ECON 103.* 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.

ECON210 Intermediate Macroeconomics 3 crs. 3 hrs. *Preq: ECON 102 and ECON 103.* 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.

ECON220 Introduction to Economic Statistics 3 crs. 4 hrs. *Preq: ECON 102, and MATH 115 or MATH 121 or MATH 184.* Presentation and interpretation of statistical data, statistical inference, correlation and regression, and time series analysis. **Not open to students with credit in MATH 113, POL 220, PSY 205, PSY 206, or SOC 220.** 2 hours recitation, 2 hours laboratory. *Accounting, Business, Marketing and other majors requiring credit in Economic Statistics should take ECON 420 if they have credit in any of the previously listed courses.*

ECON280 Intermediate Accounting I 3 crs. 4 hrs. *Preq: ACC 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.

ECON281 Personnel Management 3 crs. 3 hrs. *Preq: BUS 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.

ECON282 Introduction to Marketing 3 crs. 3 hrs. *Preq: BUS 301.* Introduction to concepts, institutions and policies of distribution; relationships among manufacturers, wholesalers, retailers, and consumers, market research and strategies, advertising, and sales management.

ECON283 Business Law I 3 crs. 3 hrs. *Preq: ECON 101 or ECON 102.* Origin and development of Business Law, its theory and application; Law of contracts, bailments, sales; particular emphasis on New York State Law.

ECON284 Business Law II 3 crs. 3 hrs. *Preq: BUS 283 or ECON 283.* Law of business organizations; agencies and partnerships, corporations, negotiable instruments.

ECON285 Income Taxation 3 crs. 3 hrs. *Preq: ACC 201.* Concepts and laws of taxable income, exemptions and deductions; emphasis on Federal and State income taxes including practical exercises.

ECON286 Intermediate Accounting II 3 crs. 4 hrs. *Preq: ACC 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.

ECON288 Advanced Financial Accounting 4 crs. 4 hrs. *Preq: ACC 202.* Advanced financial accounting theory and practice: branches, combinations, investor accounting, consolidations, partnerships, contemporary accounting problems. Emphasis on professional pronouncements and CPA examination problems.

ECON300 History of Economic Thought 3 crs. 3 hrs. *Preq: ECON 101 and ECON 103.* The writings of contributors to the development of economic thought including Smith, Malthus, Hume, Marx, Marshall, and Ricardo.

ECON310 Public Finance 3 crs. 3 hrs. *Preq: ECON 101 and ECON 103.* 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.*

ECON311 Money and Banking 3 crs. 3 hrs. *Preq: ECON 103.* Principles and history of money and banking; major reference to the experience and problems of the United States.

ECON331 Economics of Underdeveloped Areas 3 crs. 3 hrs. *Preq: ECON 103.* 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.*

ECON333 Urban Economics 3 crs. 3 hrs. *Preq: ECON 103.* 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.

ECON340 International Economics 3 crs. 3 hrs. *Preq: ECON 101 and ECON 103.* 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.*

ECON350 Industrial Organization 3 crs. 3 hrs. *Preq: ECON 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.*

ECON360 Labor Economics 3 crs. 3 hrs. *Preq: ECON 102.* Supply and demand for labor, wage patterns and theories, problem of unemployment and its solutions, and effect of trade unions on wage determinations.

ECON361 Economics of Trade Unions and Collective Bargaining in the United States 3 crs. 3 hrs. *Preq: ECON 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.

ECON381 Management Theory and Practice 3 crs. 3 hrs. *Preq: ECON 101 or ECON 102. Additional prerequisite for Business Administration, Marketing, and Information Systems Management majors: COOP 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.

ECON382 Investment and Security Analysis 3 crs. 3 hrs. *Preq: ECON 101 or ECON 102, ECON 220, and ACC 101.* Introduction to investment and securities; analysis of various types of securities, investment portfolio, management, and security selection; emphasis on new concepts and techniques.

ECON390 Independent Research 3 crs. 0 hrs. *Preq: ECON 220.* Investigation of a problem, determined by the student in consultation with a member of the Economics staff. *Hours arranged.*

ECON420 Advanced Economic Statistics 3 crs. 3 hrs. *Preq: ECON 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.

ECON421 Econometrics 3 crs. 3 hrs. *Preq: ECON 420 or MATH 113 or MATH 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.*

EDUC

EDUC201 Educational Psychology 3 crs. 3 hrs. *Preq: Sophomore status or above.* Application of psychological principles to the teaching-learning process; behavioristic and humanistic approaches to motivation, student learning, individual differences, and teacher-pupil interactions; important experimental approaches to education. *Field experiences.*

EDUC202 Studies in Classroom Dynamics 2 crs. 2 hrs. *Preq: Successful completion of all Skills Assessment Tests. Sophomore status or above. Successful completion of all Skills Assessment Tests. Sophomore status or above.* Problems encountered by teachers with reference to classroom management, curriculum, teaching, and discipline; theoretical and methodological basis of the teaching-learning process. Students will make site visits to area schools.

EDUC204 Foundations of American Education 3 crs. 3 hrs. *Preq:* An introduction to the historical, philosophical and social premises that underlie contemporary American educational theory and practice.

EDUC209 General Principles and Practices of Teaching in the Secondary Schools 2.5 crs. 3 hrs. *Preq:* Examination of trends, practices and problems of teaching in the secondary schools. Classroom management techniques; course, unit and lesson planning; teaching techniques; grouping and individualization; evaluation techniques. *Field experiences are included.*

EDUC250 Microcomputers in Education 1 crs. 2 hrs. *Preq:* *Sophomore status or above.* Integrating computers into classroom instruction and educational management.

EDUC269 Theories of Bilingualism and Bilingual Education in the Urban School 3 crs. 3 hrs. *Preq:* *6cr. Spanish at the 200 level, formal admission to the teacher education program for teacher education candidates, departmental permission for non-degree students.* This course is an introduction to the philosophy, fundamental principles, and current approaches of teaching bilingual students in the urban school. *The completion of 15 supervised fieldwork hours in a bilingual program will be required. Sample lessons taught by each student will be videotaped and analyzed.*

EDUC270 Teaching in a Multi-Ethnic and Multi-cultural Society 2.5 crs. 3 hrs. *Preq:* *EDUC 201 and Junior status.* The significance of teaching in a multi-ethnic and multi-cultural world. Workshop designed to develop a knowledge and understanding of necessary teaching skill related to the cultural and ethnic diversity within our schools. Students will examine their feelings, perceptions and experience in the classroom. *Includes field work.*

EDUC280 Child and Adolescent Development for Teachers 3 crs. 3 hrs. *Preq:* *ENG 125.* Surveys human development from childhood through adolescence with emphasis on the relationship between development and teaching/learning. Topics covered include theories of development, milestones in physical, cognitive, and social/emotional development, and the role of nutrition, intelligence, play, the urban environment, peers, family, community and culture on development. **No credit will be given students who have taken PSY 215.**

EDUC281 Fieldwork in Educational Environments 1 crs. 2 hrs. *Preq:* *EDUC 280 or PSY 215. EDUC 280 or PSY 215.* Introduction to fieldwork in education. Includes supervised field experience in educational environments that focus on the study of childhood and adolescent development as it relates to teaching and learning. *1 hour recitation, 1 hour field work.*

EDUC283 Effective Teaching and Learning 3 crs. 3 hrs. *Preq:* *EDUC 281.* An introduction to principles of effective teaching and learning. This course provides an overview of behavioral, social cognitive, cognitive, and constructivist accounts of learning and provides students with applications of teaching methods that are guided by these theories as well as topics in special education, assessment, and motivation. The course also provides students with the opportunity to engage in the critical reflection of theory and develop a personal teaching philosophy. *Field work is required.*

EDUC300 Teaching Children with Special Needs in the Regular Classroom 3 crs. 4 hrs. *Preq:* *EDUC 201.* 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.*

EDUC301 Education of the Mildly Handicapped 3 crs. 3 hrs. *Preq:* *EDUC 201.* 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.*

EDUC302 Education of the Physically Handicapped 3 crs. 3 hrs. *Preq:* *EDUC 301.* Education of children with physical and multiple handicaps and chronic medical problems. Methods and Materials, instructional designs, curriculum modifications and behavioral techniques.

EDUC303 Nature and Educational Needs of the Mentally Retarded 3 crs. 3 hrs. *Preq:* *EDUC 301.* 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.*

EDUC306 Education of the Emotionally Handicapped 3 crs. 3 hrs. *Preq:* *EDUC 201 or EDUC 310.* Screening and diagnostic procedures for identifying children with emotional and behavioral disorders; methods, materials, and educational therapeutic techniques for classroom instruction. *Field work required.*

EDUC307 Methods and Curriculum for Learning Disorders 3 crs. 3 hrs. *Preq:* *PSY 225 or PSY 275.* Methods, curriculum, and remediation strategies for specific learning difficulties; evaluation of instructional aids; includes actual contact with learning-disordered children in classroom situations. *Field project is required.*

EDUC308 The Education of the Visually Impaired 3 crs. 3 hrs. *Preq:* *EDUC 301 or permission of the instructor.* Methods and materials in teaching visually impaired; nature, cause, and treatment; psychological and physiological problems; special equipment for the visually impaired and familiarity with communicative devices such as Braille. *A field experience is required.*

EDUC310 Child Development for Teachers 3 crs. 3 hrs. *Preq:* Normal growth and development of children with emphasis on early childhood; physical, emotional, social, and intellectual aspects of development; the roles of endowment, maturation, environment, and experience; particular attention to the contributions of Piaget, Erikson, and Isaacs, among others. *Field observations.*

EDUC312 Literacy Instruction and Children's Literature in the Early and Primary Years 3 crs. 4 hrs. *Preq:* *WRITE 301 or 302 or 303, formal admission to the teacher education program for teacher education candidates, departmental permission for non-degree students.* 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 into the pre-kindergarten, kindergarten and primary grade settings. *2 hours lecture, 2 hours laboratory.*

EDUC313 Curriculum and Methods for Teaching Mathematics and Social Studies in the Elementary School 3.5 crs. 4 hrs. *Preq:* *Instrumental Mathematics course; HIST 201 or HIST 204; EDUC 201.* Theoretical and methodological approaches and techniques appropriate to developing and teaching an integrated Mathematics and Social Studies program in the elementary school. **Not open to students with credit in EDUC 340, EDUC 341, EDUC 342 or EDUC 413.** *3 hours lecture, 1 hour field work.*

EDUC314 Content Area Literacy Instruction and Children's Literature for Beginning and Independent Readers (Grades 2-6) 3 crs. 3 hrs. *Preq:* *EDUC 312, and formal admission to the teacher education program for teacher education candidates or departmental permission for non-degree students.* 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.

EDUC315 Curriculum and Methods in Early Childhood: Mathematics, Science and Social Studies 3.5 crs. 4 hrs. *Preq:* *EDUC 201 or EDUC 310; Instrumental Mathematics Course; Natural Science requirements; HIST 201 or HIST 204.* Appropriate objectives, content, methods, and materials for helping children develop basic mathematics, science, and social studies concepts and skills. **Not open to students with credit in EDUC 323, EDUC 324, EDUC 333, EDUC 341, EDUC 342, EDUC 411 or EDUC 413.** *3 hours lecture, 1 hour field work.*

EDUC316 Curriculum and Methods in Early Childhood Education: The Creative and Expressive Arts 2.5 crs. 3 hrs. *Preq:* *EDUC 201; FA 104; MUS 110 and PE 310.* Participation in the fields of music, physical education and the visual arts as they relate to early childhood education; understanding the role of the creative and expressive arts in facilitating individual growth and development in young children. **Not open to students with credit in EDUC 325, EDUC 326 or EDUC 327.** *2 hours lecture, 1 hour field work.*



EDUC317 Curriculum and Methods in Elementary Education: Science 2 crs. 3 hrs. *Prq: Formal admission to the teacher education program for teacher education candidates, departmental permission for non-degree students.* 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. 1 hour lecture, 2 hours laboratory. *Supervised fieldwork is a component of the course.*

EDUC318 Curriculum and Methods in Health and Physical Education for the Elementary School 2 crs. 3 hrs. *Prq: Formal admission to the teacher education program for teacher education candidates, departmental permission for non-degree students.* 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. **Not open to students with credit in EDUC 327.** 2 hours lecture, 1 hour recitation. Ten hours of classroom observation under the guidance of a York College faculty member.

EDUC323 Curriculum and Methods in Elementary Education: Mathematics 2 crs. 3 hrs. *Prq: Formal admission to the teacher education program for teacher education candidates, departmental permission for non-degree students.* 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. 1 hour lecture, 2 hours laboratory. *Students will make site visits to area schools.*

EDUC325 Curriculum and Methods in Elementary Education: Art Skills 2 crs. 2 hrs. *Prq: EDUC 201, EDUC 202 & EDUC 204 and 3 credits in Fine and Performing Arts.* Introduction to art skills through study and practice of art theory and techniques. *Designed for the classroom teacher. Students will make site visits to area schools.*

EDUC326 Curriculum and Methods in Elementary Education: Music Skills 2 crs. 2 hrs. *Prq: EDUC 201, EDUC 202 & EDUC 204 and 3 credits in Fine and Performing Arts.* Development of basic skills of rhythm, improvisation, and playing classroom instruments; methods of teaching and using music in the classroom. Students will make site visits to area schools.

EDUC327 Curriculum and Methods in Elementary School Physical Education 3 crs. 3 hrs. *Prq: 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 to curricula. Applying learned concepts to practice teaching. *Thirty hours field observation in the elementary school supervised by York College faculty members.*

EDUC328 Curriculum and Methods in Secondary School Physical Education 3 crs. 3 hrs. *Prq: 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.*

EDUC329 Curriculum and Methods in Teaching Health Education at the Elementary Level 3 crs. 3 hrs. *Prq: 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.*

EDUC330 Curriculum and Methods in Teaching Health Education at the Secondary Level 3 crs. 3 hrs. *Prq: 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.*

EDUC333 Constructing Social Studies Relationships Through the Expressive Arts 2 crs. 3 hrs. *Prq: Formal admission to the teacher education program for teacher education candidates, departmental permission for non-degree students.* 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. 1 recitation hour, 2 laboratory hours.

EDUC334 Tests, Measurements, and Evaluation Procedures for Teachers 3 crs. 3 hrs. *Prq: EDUC 201 or EDUC 310.* Survey and practice of skills required to assess the needs, motivations, capacities, and achievement of regular and special pupils; selection, use, and interpretation of standardized and non-standardized techniques and instruments. *Includes field work.*

EDUC340 Literacy Instruction Inside Middle and Secondary Schools 3 crs. 4 hrs. *Prq: Formal admission to the teacher education program for teacher education candidates, departmental permission for non-degree students.* 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. 2 hours lecture, 2 hours laboratory.

EDUC341. Curriculum and Methods in Physical Education, K-12. 4 hrs.; 4 cr. *Prereq: formal admission to Teacher Education Program.* 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.*

EDUC342 Curriculum and Methods for Teaching Mathematics and Science in a Bilingual Elementary School Program: Spanish 4 crs. 4 hrs. *Prq: Certification of Spanish language competency, EDUC 269, 4 credits in Mathematics and 3 credits in Science.* New materials, resources, methodological approaches, and techniques suitable to the teaching of mathematics and science in an elementary school. Course conducted primarily in Spanish. Students plan and give lessons in Spanish and English. **Not open to students with credit in EDUC 323 and EDUC 324.** *Not offered on a regular basis. Availability to be determined by the department.*

EDUC344 Curriculum and Methods for Teaching Reading in Bilingual Elementary Schools 6 crs. 6 hrs. *Prq: Not offered on a regular basis. Availability to be determined by the department.*

EDUC345 Teaching English as a Second Language Through the Content Areas 2 crs. 3 hrs. *Prq: EDUC 269 and formal admission to the teacher education program for teacher education candidates, departmental permission for non-degree students.* This course covers theories on 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.*

EDUC346 Curriculum and Methods for Teaching Mathematics, Science and Social Studies in a Bilingual (English/Spanish) Elementary School Program 3.5 crs. 4 hrs. *Preq: Certification of Spanish language competency; EDUC 201; HIST 201; completion of natural science requirements; Instrumental Mathematics course.* Theory of and methods for developing and teaching an integrated Mathematics, Science and Social Studies program in a bilingual (English/Spanish) elementary school. 3 hours lecture, 1 hour field work. Course conducted both in Spanish and English. Students plan and give lessons in Spanish and English.

EDUC347 Curriculum and Methods for Teaching the Humanities in a Bilingual Elementary School Program: French 4 crs. 4 hrs. *Preq: Certification of French language competency, EDUC 269, and completion of instrumental composition requirement.* New materials, resources, methodological approaches, and techniques for developing and teaching an integrated language and creative arts program in an elementary school. Course conducted primarily in French. Students plan and give lessons in French and English. **Not open to students with credit in two of the following courses: EDUC 322, EDUC 325, EDUC 326, EDUC 327 and EDUC 337.** Not offered on a regular basis. Availability to be determined by the department.

EDUC348 Curriculum and Methods for Teaching Reading and Language Arts Skills in a Bilingual (English/Spanish) Elementary School Program 6 crs. 7 hrs. *Preq: EDUC 201, EDUC 269, ENG 120 or ENG 125 and Certification of Spanish Language Competency.* Current theory and methods, organizational patterns, new materials and techniques for developing and teaching an integrated Language Arts and Reading program for bilingual (English/Spanish) elementary school students. **Not open to students with credit in EDUC 322, EDUC 351, EDUC 412 or EDUC 425.** 5 hours lecture, 2 hours field work. Course conducted in both English and Spanish.

EDUC351 Teaching Reading and Spanish Language Arts in Bilingual Contexts 3 crs. 3 hrs. *Preq: EDUC 345, SPAN 209 and SPAN 308 and formal admission to the teacher education program for teacher education candidates, departmental permission for non-degree students.* 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.

EDUC361 Curriculum and Methods in the Secondary Schools 2.5 crs. 3 hrs. *Preq: EDUC 201, Junior status, and 12 credits in students 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. See EDUC 362, EDUC 366, EDUC 368 and EDUC 388 for description and EDUC 361, EDUC 362, EDUC 366, EDUC 368 and EDUC 389 for additional prerequisites. Sophomores and Juniors planning to teach should take this course at earliest opportunity. Not offered on a regular basis. Availability to be determined by the department.

EDUC362 Curriculum and Methods in the Secondary Schools 2.5 crs. 3 hrs. *Preq: EDUC 201, Junior status, and 12 credits in students 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. See EDUC 362, EDUC 366, EDUC 368 and EDUC 388 for description and EDUC 361, EDUC 362, EDUC 366, EDUC 368 and EDUC 389 for additional prerequisites. Sophomores and Juniors planning to teach should take this course at earliest opportunity. Not offered on a regular basis. Availability to be determined by the department.

EDUC363 Curriculum and Methods in the Secondary Schools 2.5 crs. 3 hrs. *Preq: EDUC 201, Junior status, and 12 credits in students 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. See EDUC 362, EDUC 366, EDUC 368 and EDUC 388 for description and EDUC 361, EDUC 362, EDUC 366, EDUC 368 and EDUC 389 for additional prerequisites. Sophomores and Juniors planning to teach should take this course at earliest opportunity. Not offered on a regular basis. Availability to be determined by the department.

EDUC364 Curriculum and Methods in the Secondary Schools 2.5 crs. 3 hrs. *Preq: EDUC 201, Junior status, and 12 credits in students 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. See EDUC 362, EDUC 366, EDUC 368 and EDUC 388 for description and EDUC 361, EDUC 362, EDUC 366, EDUC 368 and EDUC 389 for additional prerequisites. Sophomores and Juniors planning to teach should take this course at earliest opportunity. Not offered on a regular basis. Availability to be determined by the department.

EDUC365 Curriculum and Methods in the Secondary Schools 2.5 crs. 3 hrs. *Preq: EDUC 201, Junior status, and 12 credits in students 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. See EDUC 362, EDUC 366, EDUC 368 and EDUC 388 for description and EDUC 361, EDUC 362, EDUC 366, EDUC 368 and EDUC 389 for additional prerequisites. Sophomores and Juniors planning to teach should take this course at earliest opportunity. Not offered on a regular basis. Availability to be determined by the department.

EDUC366 Curriculum and Methods in the Secondary Schools 2.5 crs. 3 hrs. *Preq: EDUC 201, Junior status, and 12 credits in students 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. See EDUC 362, EDUC 366, EDUC 368 and EDUC 388 for description and EDUC 361, EDUC 362, EDUC 366, EDUC 368 and EDUC 389 for additional prerequisites. Sophomores and Juniors planning to teach should take this course at earliest opportunity. Not offered on a regular basis. Availability to be determined by the department.

EDUC367 Curriculum and Methods in the Secondary Schools 2.5 crs. 3 hrs. *Preq: EDUC 201, Junior status, and 12 credits in students 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. See EDUC 362, EDUC 366, EDUC 368 and EDUC 388 for description and EDUC 361, EDUC 362, EDUC 366, EDUC 368 and EDUC 389 for additional prerequisites. Sophomores and Juniors planning to teach should take this course at earliest opportunity. Not offered on a regular basis. Availability to be determined by the department.

EDUC368 Curriculum and Methods in Physical Education Grades K-III 3.5 crs. 4 hrs. *Preq: EDUC 201, Junior status, minimum 2.5 G.P.A.s in Major, Education and overall; 21 credits in Major; 13 credits in required Education sequence; completion of all General Education Requirements; all assessment tests passed; approval of committee consisting of members of the Education and Physical Education Departments.* Development of skills, study methods and materials of instruction necessary to conduct Physical Education programs for grades K-12. Descriptions of the development of skills in long range planning, unit planning, and lesson planning. Application of principles in current research in Physiology and Psychology. Presentation of concepts of class management, health and safety procedures. **Not open to students with credit in EDUC 327, EDUC 385. Includes field work.**

EDUC400 Programs in Early Childhood Education 3 crs. 3 hrs. *Preq: EDUC 201 or EDUC 310. Not open to students with credit in EDUC 429 or EDUC 430.* Introductory survey course. Description and analysis in historical context of program models in Early Childhood Education.

EDUC418 Supervised Student Teaching, Health Education, Grades K-6 4 crs. 130 hrs. *Preq: Admission to Student Teaching. EDUC 340.* Supervised Student Teaching, Health Education, grades K-6, is guided observation and supervised teaching in school settings. The teacher candidate is given extensive experience in planning, teaching, assessing and adapting activities to meet the diverse needs of learners. Candidates are supported through collaboration with college supervisors, cooperating teachers, and other school support personnel. Mandatory participation in a weekly student teaching seminar enables candidates to examine educational issues that directly impact on their daily classroom experiences.

EDUC419 Supervised Student Teaching, Health Education, Grades 7-12 4 crs. 130 hrs. *Preq: Admission to Student Teaching.* Supervised Student Teaching, Health Education, grades 7-12, is guided observation and supervised teaching in school settings. The teacher candidate is given extensive experience in planning, teaching, assessing and adapting activities to meet the diverse needs of learners. Candidates are supported through collaboration with college supervisors, cooperating teachers, and other school support personnel. Mandatory participation in a weekly student teaching seminar enables candidates to examine educational issues that directly impact on their daily classroom experiences. **Not open to students with credit in EDUC 495/EDUC 496.**

EDUC431 Supervised Student Teaching, Grades 1-3 3 crs. 16 hrs. *Preq: Admission to Student Teaching.* Supervised Student Teaching, grades 1-3, is guided observation and supervised teaching in school settings. The teacher candidate is given extensive experience in planning, teaching, assessing and adapting activities to meet the diverse needs of learners. Candidates are supported through collaboration with college supervisors, cooperating teachers, and other school support personnel. Mandatory participation in a weekly student teaching seminar enables candidates to examine educational issues that directly impact on their daily classroom experiences. **Open only to students officially registered in the Teacher Certification Program.** 16 hours/week fieldwork.

EDUC432 Supervised Student Teaching, Grades 4-6 3 crs. 16 hrs. *Preq: Admission to Student Teaching* Supervised Student Teaching, grades 4-6, is guided observation and supervised teaching in school settings. The teacher candidate is given extensive experience in planning, teaching, assessing and adapting activities to meet the diverse needs of learners. Candidates are supported through collaboration with college supervisors, cooperating teachers, and other school support personnel. Mandatory participation in a weekly student teaching seminar enables candidates to examine educational issues that directly impact on their daily classroom experiences. **Open only to students officially registered in the Teacher Certification Program.** 16 hours/week fieldwork.

EDUC433 Supervised Teaching in Bilingual Education (English/Spanish) Pre-K-6 3 crs. 16 hrs. *Preq: Senior status; minimum of 2.5 General and Education indices; passing of all Assessment Tests (Mathematics, Reading and Writing); successful completion of all General Education Program and Distribution courses, required Methods courses, Language and Culture courses, and completion of EDUC 431 with a minimum grade of "C".* Guided observation and supervised teaching will take place in a bilingual class in neighboring elementary schools. The prospective teacher, in cooperation with nursery or elementary 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 and improvement, planning and managing classroom activities, teacher-pupil-community relationships, evaluating and reporting pupil progress, and the administrative responsibilities of the teacher. *Student teaching must be taken in two successive semesters. They may not be taken concurrently. Paraprofessionals must register for both courses. Full credit to be granted upon satisfactory observation in their schools by faculty members of the Teacher Education Program and completion of departmental requirements.*

EDUC434 Supervised Teaching in Early Childhood Education (Grades Pre-K-II) 3 crs. 16 hrs. *Preq: Senior status; minimum of 2.5 General and Education indices; passing of all Assessment Tests (Mathematics, Reading and Writing); successful completion of all General Education Requirements and required Education courses; completion of EDUC 431 with a minimum grade of "C".* 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 Teacher Education Program and completion of departmental requirements. Guided observation and supervised teaching in neighboring nursery and elementary schools. The prospective teacher in cooperation with nursery or elementary 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 and improvement, planning and managing classroom activities, teacher-pupil-community relationships, evaluating and reporting pupil progress, and the administrative responsibilities of the teacher.

EDUC437 Supervised Teaching of Secondary Schools 4 crs. 120 hrs. *Preq: 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. *Junior status; Minimum 2.75 G.P.A.s in Major, Education and overall. Check individual courses for additional prerequisites.*

EDUC438 Supervised Teaching of Secondary Schools 4 crs. 120 hrs. *Preq: 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. *Junior status; Minimum 2.75 G.P.A.s in Major, Education and overall. Check individual courses for additional prerequisites.*

EDUC440 Supervised Student Teaching, Mathematics, Grades 7-9 4 crs. 120 hrs. *Preq: Admission to Student Teaching* Supervised Student Teaching, Mathematics, grades 7-9 is guided observation and supervised teaching in school settings. The teacher candidate is given extensive experience in planning, teaching, assessing and adapting activities to meet the diverse needs of learners. Candidates are supported through collaboration with college supervisors, cooperating teachers, and other school support personnel. *Mandatory participation in a weekly student teaching seminar enables candidates to examine educational issues that directly impact on their daily classroom experiences.*

EDUC441 Supervised Student Teaching, Mathematics, Grades 10-12 4 crs. 120 hrs. *Preq: Admission to Student Teaching.* Supervised Student Teaching, Mathematics, grades 10-12 is guided and supervised teaching in school settings. The teacher candidate is given extensive experience in planning, teaching, assessing and adapting activities to meet the diverse needs of learners. Candidates are supported through collaboration with college supervisors, cooperating teachers, and other school support personnel. *Mandatory participation in a weekly student teaching seminar enables candidates to examine educational issues that directly impact on their daily classroom experiences.*

EDUC442 Supervised Student Teaching, Biology, Grades 7-9 4 crs. 120 hrs. *Preq: Admission to Student Teaching.* Supervised Student Teaching, Biology, grades 7-9 is guided observation and supervised teaching in school settings. The teacher candidate is given extensive experience in planning, teaching, assessing and adapting activities to meet the diverse needs of learners. Candidates are supported through collaboration with college supervisors, cooperating teachers, and other school support personnel. *Mandatory participation in a weekly student teaching seminar enables candidates to examine educational issues that directly impact on their daily classroom experiences.*

EDUC443 Supervised Student Teaching, Biology, Grades 10-12 4 crs. 120 hrs. *Preq: Admission to Student Teaching.* Supervised Student Teaching, Biology, grades 10-12 is guided observation and supervised teaching in school settings. The teacher candidate is given extensive experience in planning, teaching, assessing and adapting activities to meet the diverse needs of learners. Candidates are supported through collaboration with college supervisors, cooperating teachers, and other school support personnel. *Mandatory participation in a weekly student teaching seminar enables candidates to examine educational issues that directly impact on their daily classroom experiences.*

EDUC444 Supervised Student Teaching, Chemistry, Grades 7-9 4 crs. 120 hrs. *Preq: Admission to Student Teaching.* Supervised Student Teaching, Chemistry, grades 7-9 is guided observation and supervised teaching in school settings. The teacher candidate is given extensive experience in planning, teaching, assessing and adapting activities to meet the diverse needs of learners. Candidates are supported through collaboration with college supervisors, cooperating teachers, and other school support personnel. *Mandatory participation in a weekly student teaching seminar enables candidates to examine educational issues that directly impact on their daily classroom experiences.*

EDUC445 Supervised Student Teaching, Chemistry, Grades 10-12 4 crs. 120 hrs. *Preq: Admission to Student Teaching.* Supervised Student Teaching, Chemistry, grades 10-12 is guided observation and supervised teaching in school settings. The teacher candidate is given extensive experience in planning, teaching, assessing and adapting activities to meet the diverse needs of learners. Candidates are supported through collaboration with college supervisors, cooperating teachers, and other school support personnel. *Mandatory participation in a weekly student teaching seminar enables candidates to examine educational issues that directly impact on their daily classroom experiences.*

EDUC446 Supervised Student Teaching, Earth Science, Grades 7-9 4 crs. 120 hrs. *Preq: Admission to Student Teaching.* Supervised Student Teaching, Earth Science, grades 7-9 is guided observation and supervised teaching in school settings. The teacher candidate is given extensive experience in planning, teaching, assessing and adapting activities to meet the diverse needs of learners. Candidates are supported through collaboration with college supervisors, cooperating teachers, and other school support personnel. *Mandatory participation in a weekly student teaching seminar enables candidates to examine educational issues that directly impact on their daily classroom experiences.*

EDUC447 Supervised Student Teaching, Earth Science, Grades 10-12 4 crs. 120 hrs. *Preq: Admission to Student Teaching.* Supervised Student Teaching, Earth Science, grades 10-12 is guided observation and supervised teaching in school settings. The teacher candidate is given extensive experience in planning, teaching, assessing and adapting activities to meet the diverse needs of learners. Candidates are supported through collaboration with college supervisors, cooperating teachers, and other school support personnel. *Mandatory participation in a weekly student teaching seminar enables candidates to examine educational issues that directly impact on their daily classroom experiences.*

EDUC448 Supervised Student Teaching, Physical Education, Grades K-6 4 crs. 130 hrs. *Preq: Admission to Student Teaching.* Supervised Student Teaching, Health Education, grades K-6, is guided observation and supervised teaching in school settings. The teacher candidate is given extensive experience in planning, teaching, assessing and adapting activities to meet the diverse needs of learners. Candidates are supported through collaboration with college supervisors, cooperating teachers, and other school support personnel. *Mandatory participation in a weekly student teaching seminar enables candidates to examine educational issues that directly impact on their daily classroom experiences.*

EDUC449 Supervised Student Teaching, Physical Education, Grades 7-12 4 crs. 130 hrs. *Preq: Admission to Student Teaching.* Supervised Student Teaching, Physical Education, grades 7-12, is guided observation and supervised teaching in school settings. The teacher candidate is given extensive experience in planning, teaching, assessing and adapting activities to meet the diverse needs of learners. Candidates are supported through collaboration with college supervisors, cooperating teachers, and other school support personnel. *Mandatory participation in a weekly student teaching seminar enables candidates to examine educational issues that directly impact on their daily classroom experiences.*

EDUC452 Supervised Teaching of Secondary Schools 4 crs. 120 hrs. *Preq: Junior status; Minimum 2.75 G.P.A.s in Major, Education and overall.* 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. *Check individual courses for additional prerequisites.*

EDUC453 Supervised Teaching of Secondary Schools 4 crs. 120 hrs. *Preq: Junior status; Minimum 2.75 G.P.A.s in Major, Education and overall.* 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. *Check individual courses for additional prerequisites.*

EDUC454 Supervised Teaching of Secondary Schools 4 crs. 120 hrs. *Preq: Junior status; Minimum 2.75 G.P.A.s in Major, Education and overall.* 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. *Check individual courses for additional prerequisites.*

EDUC455 Supervised Teaching of Secondary Schools 4 crs. 120 hrs. *Preq: Junior status; Minimum 2.75 G.P.A.s in Major, Education and overall.* 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. *Check individual courses for additional prerequisites.*

EDUC456 Supervised Teaching of Secondary Schools 4 crs. 120 hrs. *Preq: Junior status; Minimum 2.75 G.P.A.s in Major, Education and overall.* 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. *Check individual courses for additional prerequisites.*

EDUC457 Supervised Teaching of Secondary Schools 4 crs. 120 hrs. *Preq: Junior status; Minimum 2.75 G.P.A.s in Major, Education and overall.* 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. *Check individual courses for additional prerequisites.*

HPEH

EDUC458 Supervised Student Teaching, Spanish, Grades 7-9 4 crs. 120 hrs. *Preq: Admission to Student Teaching.* Supervised Student Teaching, Spanish, grades 7-9 is guided observation and supervised teaching in school settings. The teacher candidate is given extensive experience in planning, teaching, assessing and adapting activities to meet the diverse needs of learners. Candidates are supported through collaboration with college supervisors, cooperating teachers, and other school support personnel. *Mandatory participation in a weekly student teaching seminar enables candidates to examine educational issues that directly impact on their daily classroom experiences.*

EDUC459 Supervised Student Teaching, Spanish, Grades 10-12 4 crs. 120 hrs. *Preq: Admission to Student Teaching.* Supervised Student Teaching, Spanish, grades 10-12, is guided observation and supervised teaching in school settings. The teacher candidate is given extensive experience in planning, teaching, assessing and adapting activities to meet the diverse needs of learners. Candidates are supported through collaboration with college supervisors, cooperating teachers, and other school support personnel. *Mandatory participation in a weekly student teaching seminar enables candidates to examine educational issues that directly impact on their daily classroom experiences.*

EDUC479 Supervised Teaching of Secondary Schools 4 crs. 120 hrs. *Preq: 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. *Junior status; Minimum 2.75 G.P.A.s in Major, Education and overall. Check individual courses for additional prerequisites.*

EDUC480 Supervised Teaching of Secondary Schools 4 crs. 120 hrs. *Preq: 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. *Junior status; Minimum 2.75 G.P.A.s in Major, Education and overall. Check individual courses for additional prerequisites.*

EDUC570 Advanced Methods in High School Science Instruction 4 crs. 7 hrs. *Preq: 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. *2 hours lecture, 5 hours laboratory.*

EDUC571 Field Activities in Science Education 2 crs. 6 hrs. *Preq: EDUC 570.* A follow-up to 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. *6 hours field work.*

EDUC572 Advanced Methods in High School Math Instruction 4 crs. 7 hrs. *Preq: 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. *2 hours lecture, 5 hours laboratory.*

EDUC573 Field Activities in Math Education 2 crs. 6 hrs. *Preq: EDUC 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.

HPEH110 Science Technology and Environment 3 crs. 3 hrs. *Preq: 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. Not credited toward fulfillment of Environmental Health Major Requirement.*

HPEH140 Environmental Management 3 crs. 4 hrs. *Preq: 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.*

HPEH340 Pollution Control Technology 3 crs. 3 hrs. *Preq: PHYS 105 and PHYS 103, HPGC 211 and HPGC 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.

HPEH343 Environmental Physiology 3 crs. 3 hrs. *Preq: HPGC 211, HPGC 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.

HPEH351 Fundamentals of Air Pollution 3 crs. 3 hrs. *Preq: CHEM 230 or CHEM 231.* 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. *Not credited toward fulfillment of CHEM 251.*

HPEH420 Water Quality Analysis and Management 4 crs. 6 hrs. *Preq: HPHPEH 340, CHEM 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. *2 hours lecture, 4 hours laboratory.*

HPEH424 Food Sanitation 3 crs. 3 hrs. *Preq: HPGC 211, BIO 465, CHEM 230.* The sanitation of food production, processing and distribution; physical, chemical and biological aspects of sanitation; food packaging control, food additives, adulteration and misbranding.

HPEH425 Disease Vector Control 4 crs. 6 hrs. *Preq: HPGC 211, HPGC 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.*

HPEH426 Solid Waste Management 3 crs. 3 hrs. *Preq: HPGC 211, HPGC 212, CHEM 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.

HPEH427 Industrial Hygiene 3 crs. 3 hrs. *Preq: HPGC 211, HPGC 212, CHEM 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.

HPEH428 Water Pollution Biology 3 crs. 3 hrs. *Preq: HPHPEH 340.* 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.

HPEH429 Environmental Management 3 crs. 3 hrs. *Preq: HPGC 211, HPGC 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.

HPEH430 Field Study in Environmental Health Science 6 crs. 40 hrs. *Preq: Senior status, HPHPEH 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.

HPEH498 Independent Study 3 crs. 6 hrs. *Preq: Permission of Instructor prior to registration.* Individually guided study of an advanced topic in Environmental Health Science. 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.** 6 hours/week. Hours arranged. *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.*

HPEH499 Independent Study 3 crs. 6 hrs. *Preq: Permission of Instructor prior to registration.* Individually guided study of an advanced topic in Environmental Health Science. 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.*

ENG

ENG101 Reading and Writing for College Studies I 2 crs. 5 hrs. *Preq: By placement only.* Intensive basic work in reading and writing in preparation for college studies. *To be graded A, B, C, F. Tutorial hours required.*

ENG102 Reading and Writing for College Studies II 2 crs. 5 hrs. *Preq: Successful completion of ENG 101 or by placement.* Intensive work in reading and writing in preparation for college studies. *To be graded A, B, C, F. Tutorial hours required.*

ENG125 Introduction to College Writing 4 crs. 4 hrs. *Preq: By placement examination.* Research, reading and writing for college studies.

ENG200 Understanding Literature 3 crs. 3 hrs. *Preq: ENG 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.

ENG208 Understanding Drama 3 crs. 3 hrs. *Preq: ENG 200.* An introduction to reading and viewing plays, designed to develop the students interpretive skills and appreciation of the literature of the theatre.

ENG209 Understanding Poetry 3 crs. 3 hrs. *Preq: ENG 200.* An introduction to the close reading of a variety of poems, designed to develop the students interpretive skills and appreciation of poetry.

ENG210 Introduction to Literary Studies 3 crs. 3 hrs. *Preq: ENG 200.* Introduction, through case studies of selected texts, to a variety of reading approaches and critical methodologies central to the study of literature.

ENG220 The English Tradition I 3 crs. 3 hrs. *Preq: ENG 200.* Major English authors from the Middle Ages through the 18th century.

ENG230 The English Tradition II 3 crs. 3 hrs. *Preq: ENG 200.* Major British literature of the 19th and 20th centuries.

ENG240 The American Tradition 3 crs. 3 hrs. *Preq: ENG 200.* Major American literature of the 19th and 20th centuries.

ENG270 Introduction to English Grammar and Syntax (WI) 3 crs. 3 hrs. *Preq: ENG 125.* Analysis of English sentence structure, with focus on parts of speech, grammatical voice and mood, and written discourse. Students will examine real-world texts from a variety of genres, as well as their own writing practices. **Not open to students with credit for ENG 370.** *This is a Writing Intensive Course.*

ENG280 Introduction to Journalism 3 crs. 3 hrs. *Preq: ENG 125.* Introduction to the basics of hard newswriting and reporting; writing balanced, high-impact news pieces. The fundamentals of newspaper editing and production.

ENG281 Introduction to Feature Writing 3 crs. 3 hrs. *Preq: ENG 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.

ENG282 Introduction to Telecommunications 3 crs. 3 hrs. *Preq: ENG 125.* Introduction to the theories and applications of writing for telecommunications. Audio and video techniques applied to the development of live-on-tape videoscripts.

ENG286 Introduction to Creative Writing 3 crs. 3 hrs. *Preq: ENG 125.* The basics of writing imaginative, technically correct short stories and poems. *This is a Writing Intensive course.*

ENG298 Special Topics in English 3 crs. 3 hrs. *Preq: ENG 125.* A selected topic in English studies. *The topic varies with each offering.*

ENG301 The Old Testament 3 crs. 3 hrs. *Preq: ENG 200.* The Old Testament as literature; its cultural relation to biblical times and its impact on the subsequent literature of the Judeo-Christian world.

ENG302 The New Testament and the Apocrypha 3 crs. 3 hrs. *Preq: ENG 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.

ENG310 Foundations of Western Literature 3 crs. 3 hrs. *Preq: ENG 200.* Selections from the Bible, Homer, Greek drama, Virgil and Dante read in translation.

ENG311 Literary Studies 3 crs. 3 hrs. *Preq: ENG 200.* A variety of reading approaches and critical theories applied to the study of literature. **Not open to students with credit for ENG 210.**

ENG318 Shakespeare: The Major Works 3 crs. 3 hrs. *Preq: ENG 200.* Selected reading of the major plays and poems.

ENG328 Medieval and Renaissance Literature 3 crs. 3 hrs. *Preq: ENG 200.* Prose, poetry and drama of the Middle Ages and the English Renaissance, including such major figures as Chaucer, Shakespeare, Donne and Milton.

ENG333 Restoration and Eighteenth-Century Literature 3 crs. 3 hrs. *Preq: ENG 200.* Prose, poetry and drama from 1660 through the 18th century, including such major figures as Congreve, Swift, Pope, Fielding and Johnson.

ENG343 The Romantic Period in England 3 crs. 3 hrs. *Preq: ENG 200.* Literature of the 19th-century English Romantic movement with emphasis on poetry, including such major figures as Coleridge, Wordsworth, Byron, Shelly and Keats.

ENG344 Victorian Literature 3 crs. 3 hrs. *Preq: ENG 200.* Literature of Victorian England; emphasis on poetry and the novel, including such major figures as Browning, Tennyson, the Brontes, Dickens, Eliot and Hardy.

ENG345 Twentieth-Century British Literature 3 crs. 3 hrs. *Preq: ENG 200.* Major authors and movements in British Literature of the 20th century.

ENG350 American Voices and Visions I 3 crs. 3 hrs. *Preq: ENG 200.* Literature of America from the Colonial Period through the Civil War.

ENG351 American Romanticism 3 crs. 3 hrs. *Preq: ENG 200.* Historical, social and cultural contexts of American literary romanticism from 1820-1865, including such major figures as Emerson, Thoreau, Fuller, Douglass, Poe, Whitman and Melville.

ENG352 American Voices and Visions II 3 crs. 3 hrs. *Preq: ENG 200.* Literature of America from the Post Civil War Period through World War II.

ENG353 Nineteenth-Century American Literature 3 crs. 3 hrs. *Preq: ENG 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.

ENG355 Twentieth-Century American Literature 3 crs. 3 hrs. *Preq: ENG 200.* Major 20th century American authors and poets, their historical, social and cultural contexts.

ENG356 Studies in an American Literary Genre or Movement 3 crs. 3 hrs. *Preq: ENG 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.

ENG364 The Tragic Vision 3 crs. 3 hrs. *Preq: ENG 200.* Selected readings in tragedy from ancients to moderns; emphasis on 20th century.

ENG365 The Comic Vision 3 crs. 3 hrs. *Preq: ENG 200.* Selected readings in comedy from ancients to moderns; emphasis on 20th century.

ENG370 Advanced English Grammar and Style 3 crs. 3 hrs. *Preq: ENG 200.* Grammar and punctuation; sentence and discourse patterns; aspects of usage and style illustrated and practiced.

ENG371 History of the English Language 3 crs. 3 hrs. *Preq: ENG 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.

ENG373 Writing for Business WI 3 crs. 3 hrs. *Preq: Writing 301 or WRIT 302 or WRIT 303.* This course helps students effectively communicate in business environments. It offers instruction in common genres of business communication: e-mail, letters, memos, presentations, plans, proposals, reports, speeches and resumes. *This is a Writing Intensive course.*

ENG375 English Sociolinguistics 3 crs. 3 hrs. *Preq: ENG 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.

ENG380 Multi-Media Journalism 3 crs. 3 hrs. *Preq: ENG 280 or ENG 281 or ENG 282.* Similarities and differences in reporting and writing for newspapers, magazines and television. Adapting stories from one medium to another.

ENG381 Advanced Techniques of Journalism 3 crs. 3 hrs. *Preq: ENG 280 or ENG 281.* Includes first-person, investigative journalism, and editorial techniques for print and broadcast media. Journalistic ethics, business practices and legal principles also are explored.

ENG382 Non-Fiction Book Writing 3 crs. 3 hrs. *Preq: ENG 280 or ENG 281 or ENG 286.* Conceptualizing, researching, organizing and writing a professional-level non-fiction book proposal. Techniques for writing non-fiction books and negotiating a book contract.

ENG384 Writing for Electronic Media 3 crs. 3 hrs. *Preq: ENG 125.* Study of writing in such electronic media as weblogs, websites, and other content management systems.

ENG386 Poetry Workshop 3 crs. 3 hrs. *Preq: ENG 286.* An advanced workshop for poetry students aiming at publication and public readings.

ENG387 Short Story Workshop 3 crs. 3 hrs. *Preq: ENG 286.* An advanced workshop for short story and novel writers aiming at publication.

ENG388 Playwriting Workshop 3 crs. 3 hrs. *Preq: ENG 286.* An advanced creating writing workshop designed to give students a basic foundation in the theory and practice of writing for the stage.

ENG392 African-American Literature 3 crs. 3 hrs. *Preq: ENG 200.* Poetry, prose and drama of African-American writers.

ENG395 Women Writers 3 crs. 3 hrs. *Preq: ENG 200.* An examination of works by major women writers of the past and important contemporary figures, exploring their literary themes and recent feminist criticism.

ENG398 Special Topics in English 3 crs. 3 hrs. *Preq: ENG 200.* A selected topic in English studies. *The topic varies with each offering.*

ENG399 Special Topics in English 3 crs. 3 hrs. *Preq: ENG 200.* A selected topic in English studies. *The topic varies with each offering.*

ENG410 Seminar in English: Special Topics 3 crs. 3 hrs. *Preq: WRIT 301 by permission of the chair.* A special topic in English studies. **Open to English majors who have completed 21 credits in the major.** *The topic varies with each offering. May be repeated for credit with consent of advisor. This is a writing Intensive course.*

ENG430 Seminar in British Literature 3 crs. 3 hrs. *Preq: WRIT 301 by permission of the chair.* A special topic in British literature. **Open to English majors who have completed 21 credits in the major.** *The topic varies with each offering. May be repeated for credit with consent of advisor. This is a writing Intensive course.*

ENG450 Seminar in American Literature 3 crs. 3 hrs. *Preq: WRIT 301 by permission of the chair.* A special topic in American literature. **Open to English majors who have completed 21 credits in the major.** *The topic varies with each offering. May be repeated for credit with consent of advisor. This is a writing Intensive course.*

ENG470 Seminar in the English Language 3 crs. 3 hrs. *Preq: WRIT 301 by permission of the chair.* A special topic in the English language. **Open to English majors who have completed 21 credits in the major.** *The topic varies with each offering. May be repeated for credit with consent of advisor. This is a writing Intensive course.*

ENG480 Seminar in Writing Journalism 3 crs. 3 hrs. *Preq: WRIT 301 by permission of the chair.* A special topic related to writing or journalism. **Open to English majors who have completed 21 credits in the major.** *The topic varies with each offering. May be repeated for credit with consent of advisor. This is a writing Intensive course.*

ENG481 Broadcast Journalism Fieldwork 3 crs. 120 hrs. *Preq: ENG 280, ENG 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. *2 hours lecture plus a minimum of 105 hours of work experience per semester.*

ENG483 Newswriting and Reporting Fieldwork 3 crs. 2 hrs. *Preq: ENG 280, ENG 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. *2 hours lecture plus a minimum of 105 hours of work experience per semester.*

ENG486 Publishing Fieldwork 3 crs. 2 hrs. *Preq: ENG 280, ENG 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. *2 hours lecture plus a minimum of 105 hours of work experience per semester.*

ENG492 Honors Research in English 3 crs. 0 hrs. *Preq: ENG 209 and ENG 211; WRIT 301; Senior status.* A two semester sequence open only to students with a GPA of 3.0 or higher in the major. Hours arranged. Completion of a substantial piece of supervised individual research for honors in English.

ENG493 Honors Research in English 3 crs. 0 hrs. *Preq: ENG 209 and ENG 211; WRIT 301; Senior status.* A two semester sequence open only to students with a GPA 3.0 or higher in the major. Hours arranged. Completion of a substantial piece of supervised individual research for honors in English.

ENG495 Independent Study in Professional or Creative Writing 3 crs. 0 hrs. *Preq:* 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 by faculty sponsor to be of publishable merit. *Hours arranged. Not offered on a regular basis. Availability to be determined by the department.*

ENG496 Independent Study in Professional or Creative Writing 3 crs. 0 hrs. *Preq:* 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 by faculty sponsor to be of publishable merit. *Hours arranged. Not offered on a regular basis. Availability to be determined by the department.*

ENG497 Independent Study 3 crs. 0 hrs. *Preq:* Permission of instructor and department. Completion of a substantial piece of supervised individual research in English studies. *Hours to be arranged.*

ENG498 Independent Study 3 crs. 0 hrs. *Preq:* Permission of instructor and department. Completion of a substantial piece of supervised individual research in English studies. *Hours to be arranged.*

ENG499 Independent Study 3 crs. 0 hrs. *Preq:* Permission of instructor and department. Completion of a substantial piece of supervised individual research in English studies. *Hours to be arranged.*

ESL

ESL140 Intensive English as a Second Language III 2 crs. 9 hrs. *Preq:* ESL 135 or by placement exam or recommendation of ESL faculty. Reading by placement. Intensive training in listening and writing skills; instruction and practice in note-taking, in writing basic and complex sentence patterns; introduction to skills for writing expository English. *For non-native students at an intermediate level of proficiency. Students may register for additional courses with the permission of the ESL faculty. Graded on a Pass/Fail basis.*

ESL145 Academic Reading and Writing for Non-Native Speakers I 2 crs. 6 hrs. *Preq:* 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.

ESL150 Academic Reading and Writing for Non-Native Speakers II 2 crs. 8 hrs. *Preq:* 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 also learn to use information from readings to complete assigned writing tasks. *ESL 150 will also prepare students to take the ACT test. A separate 2-hour segment will be set aside weekly to prepare students for the ACT test.*

FA

FA100 Art for Pleasure 2 crs. 2 hrs. *Preq:* 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. **Open only to students in their Freshman year.** *Not credited toward fulfillment of Studio Art or Art History major; not credited toward the Humanities Area Requirement. Not offered on a regular basis. Availability to be determined by the department.*

FA104 Introduction to Fine Arts 3 crs. 3 hrs. *Preq:* 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.

FA150 Visual Design: Two Dimensional 3 crs. 4 hrs. *Preq:* 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.

FA151 Color 3 crs. 4 hrs. *Preq:* Introductory studies employing color; investigation of many different visual interactions and psychological effects. Some basic physics and a brief history of color theory.

FA152 Visual Design: Three Dimensional 3 crs. 4 hrs. *Preq:* 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.

FA155 Drawing I 3 crs. 4 hrs. *Preq:* 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.

FA253 Graphic Design I 3 crs. 4 hrs. *Preq:* Visual design and communication theory. Visual forms and patterns as means of graphic signification; sign, symbol, and layout; poster and book design.

FA254 Graphic Design II 3 crs. 4 hrs. *Preq:* FA 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.*

FA258 Graphics I: Print-Making 3 crs. 4 hrs. *Preq:* 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.*

FA264 Painting I 3 crs. 4 hrs. *Preq:* Techniques of painting in various mediums.

FA265 Painting II 3 crs. 4 hrs. *Preq:* FA 264. Techniques of painting in various mediums.

FA273 Sculpture I 3 crs. 4 hrs. *Preq:* Additional aspects of three-dimensional design in relation to one or more sculptural materials and their corresponding techniques.

FA274 Sculpture II 3 crs. 4 hrs. *Preq:* FA 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.

FA283 Visual Communication Media I 3 crs. 4 hrs. *Preq:* 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.*

FA284 Computer Graphics I 3 crs. 4 hrs. *Preq:* Any 3 credit Fine Arts Studio course. Any 3 credit Fine Arts Studio course. 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 Painter. Development of original imagery from direct invention, digitized pictorial sources and selected type fonts. Final projects incorporate all course material and provide a basic experience of the computer as a comprehensive design instrument.

FA290 Ancient Art 3 crs. 3 hrs. *Preq:* FA 104 or permission of department. Ancient architecture, sculpture, and painting from prehistoric to Roman times.

FA291 Art of Medieval Europe 3 crs. 3 hrs. *Preq: FA 104 or permission of department.* Architecture, sculpture, and painting from early Christian through the Gothic period.

FA292 Early Renaissance Art 3 crs. 3 hrs. *Preq: FA 104 or permission of department.* Architecture, sculpture, and painting of the 14th and 15th centuries.

FA293 Visual Studies of the Urban Environment 3 crs. 3 hrs. *Preq: FA 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.*

FA294 Northern Renaissance Art 3 crs. 3 hrs. *Preq: FA 104 or permission of department.* 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.

FA296 African Art 3 crs. 3 hrs. *Preq: FA 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.*

FA297 History of Still Photography 3 crs. 3 hrs. *Preq: FA 104 or FA 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 a regular basis. Availability to be determined by the department.*

FA298 Twentieth Century Trends in Photography 3 crs. 3 hrs. *Preq: FA 297 or FA 104 or FA 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.*

FA303 Film History: Style and Imagination I 3 crs. 4 hrs. *Preq: ENG 120 or FA 104 or permission of department.* 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 open to students with credit in ENG 303, ENG 493 or FA 400.** 2 hours lecture, 2 hours laboratory. *Not offered on a regular basis. Availability to be determined by the department.*

FA304 Film History: Style and Imagination II 3 crs. 4 hrs. *Preq: ENG 120 or FA 104 or permission of department.* 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 open to students with credit in ENG 304, ENG 494 or FA 401.** 2 hours lecture, 2 hours laboratory. *Not offered on a regular basis. Availability to be determined by the department.*

FA325 Women Artists 3 crs. 3 hrs. *Preq: FA 104 or permission of department.* Painting and sculpture by women artists from the Middle Ages through modern times. **Not open to students with credit in FA 478.**

FA355 Drawing II 3 crs. 4 hrs. *Preq: FA 155 or permission of department.* Continuation of Fine Arts 155; advanced problems.

FA358 Graphics II: Print-Making 3 crs. 4 hrs. *Preq: FA 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.*

FA364 Painting III 3 crs. 4 hrs. *Preq: FA 264.* Techniques of painting in various mediums.

FA365 Painting IV 3 crs. 4 hrs. *Preq: FA 264.* Techniques of painting in various mediums.

FA373 Sculpture III 3 crs. 4 hrs. *Preq: FA 273 or permission of department.* Investigation of one or more sculptural materials and their corresponding techniques. *See also FA 274. Not offered on a regular basis. Availability to be determined by the department.*

FA374 Sculpture IV 3 crs. 4 hrs. *Preq: FA 273 or permission of department.* Investigation of one or more sculptural materials and their corresponding techniques. *See also FA 274. Not offered on a regular basis. Availability to be determined by the department.*

FA381 Photography I 3 crs. 4 hrs. *Preq: Fundamentals of photographic communication including basic shooting and darkroom techniques.*

FA382 Photography II 3 crs. 4 hrs. *Preq: FA 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.

FA383 Visual Communication Media II 3 crs. 4 hrs. *Preq: FA 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.*

FA384 Computer Graphics II 3 crs. 4 hrs. *Preq: FA 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 Photo-shop, Illustrator, and PageMaker. *Final project requires camera-ready presentation with PageMaker.*

FA385 Film Making I 3 crs. 4 hrs. *Preq: FA 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.*

FA386 Film Making II 3 crs. 4 hrs. *Preq: FA 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.*

FA390 High Renaissance and Late Sixteenth-Century Art 3 crs. 3 hrs. *Preq: FA 104 or permission of department.* Architecture, sculpture, and painting of the Italian masters of the 16th century.

FA391 Baroque and Rococo Art *Please contact the department chair for further information*

FA392 Nineteenth-Century Art *Please contact the department chair for further information*

FA393 American Art to 1913 3 crs. 3 hrs. *Preq: FA 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.*

FA394 Twentieth-Century Art in the United States 3 crs. 3 hrs. *Preq: FA 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.*

FA395 Latin-American Art 3 crs. 3 hrs. *Preq: FA 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.*

FA398 Afro-American Art 3 crs. 3 hrs. *Preq: FA 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.*

FA402 Media, Culture, and the Visual Arts 3 crs. 3 hrs. *Preq: FA 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.*

FA403 Film and the Modern Arts 3 crs. 3 hrs. *Preq: FA 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.*

FA444 Advanced Studio I 3 crs. 4 hrs. *Preq: 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.*

FA445 Advanced Studio II 3 crs. 4 hrs. *Preq: 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.*

FA455 Advanced Drawing I 3 crs. 4 hrs. *Preq: FA 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.*

FA456 Advanced Drawing II 3 crs. 4 hrs. *Preq: FA 355 or permission of department.* Continuation of FA 455, advanced problems *Not offered on a regular basis. Availability to be determined by the department.*

FA463 Painting V 3 crs. 4 hrs. *Preq: FA 264.* Techniques of painting in various mediums. *Not offered on a regular basis. Availability to be determined by the department.*

FA464 Painting VI 3 crs. 4 hrs. *Preq: FA 264.* Techniques of painting in various mediums. *Not offered on a regular basis. Availability to be determined by the department.*

FA465 Special Studies; Selected Studio Area 3 crs. 4 hrs. *Preq: 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.*

FA466 Special Studies; Selected Studio Area 3 crs. 4 hrs. *Preq: 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.*

FA467 Special Studies; Selected Studio Area 3 crs. 4 hrs. *Preq: 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.*

FA468 Special Studies; Selected Studio Area 3 crs. 4 hrs. *Preq: 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.*

FA469 Special Studies; Selected Studio Area 3 crs. 4 hrs. *Preq: 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.*

FA473 Sculpture V 3 crs. 4 hrs. *Preq: FA 273 or permission of department.* Investigation of one or more sculptural materials and their corresponding techniques. *See also FA 274. Not offered on a regular basis. Availability to be determined by the department.*

FA474 Sculpture VI 3 crs. 4 hrs. *Preq: FA 273 or permission of department.* Investigation of one or more sculptural materials and their corresponding techniques. *See also FA 274. Not offered on a regular basis. Availability to be determined by the department.*

FA475 Special Studies Seminar: Selected Topics in Art History 3 crs. 3 hrs. *Preq: Senior status; 9 credits 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.*

FA476 Special Studies Seminar: Selected Topics in Art History 3 crs. 3 hrs. *Preq: Senior status; 9 credits 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.*

FA477 Special Studies Seminar: Selected Topics in Art History 3 crs. 3 hrs. *Preq: Senior status; 9 credits 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.*

FA478 Special Studies Seminar: Selected Topics in Art History 3 crs. 3 hrs. *Preq: Senior status; 9 credits 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.*

FA479 Special Studies Seminar: Selected Topics in Art History 3 crs. 3 hrs. *Preq: Senior status; 9 credits 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.*

FA481 Photography III 3 crs. 4 hrs. *Preq: FA 381.* Continuation of individual photography problems; emphasis on broadening and strengthening of perceptual individuality.

FA482 Photography IV 3 crs. 4 hrs. *Preq: FA 381.* Independent problems; use of basic skills to develop personal statements.

FA488 Video I 3 crs. 4 hrs. *Preq: FA 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.*

FA489 Video II 3 crs. 4 hrs. *Preq: FA 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.*

FA490 Twentieth-Century Art 3 crs. 3 hrs. *Preq: FA 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.*

FA492 Twentieth-Century Painting *Please contact the department chair for further information*

FA493 Twentieth-Century Sculpture *Please contact the department chair for further information*

FA499 Research in Art History 3 crs. 3 hrs. *Preq: 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.

FREN

FREN101 Elementary French I 4 crs. 4 hrs. *Preq: Basic principles of a beginners course designed to give the foundation for understanding, speaking, reading and writing the language; study of simple syntax. Not open to students with credit in FREN 113.*

FREN102 Elementary French II 4 crs. 4 hrs. *Preq: FREN 101 or FREN 113, or two years of secondary school French, or by placement examination.* Continuation of the beginners course; more complex grammatical structures; integrated reading and further practice in conversation. *Not open to students with credit in FREN 114.*

FREN104 Rapid Review of Basic French 3 crs. 3 hrs. *Prq: FREN 102.* A refresher course of basic French grammar and reading integrating the use of tapes and laboratory materials. **Not credited toward fulfillment of French Major. Not open to students with credit in FREN 105 or above.** 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.*

FREN105 Intermediate French I 3 crs. 3 hrs. *Prq: FREN 102 or FREN 114.* Intensive oral-aural practice based on selected readings; functional review of grammar. *Offered Spring semesters.*

FREN106 Intermediate French II 3 crs. 3 hrs. *Prq: FREN 105 or 4 years of MUSsecondary 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.

FREN113 Elementary French I 3 crs. 3 hrs. *Prq:* Beginners course designed to give a broad basis for speaking, reading and writing the language. **Not open to students with credit in FREN 101.** *Not offered on a regular basis. Availability to be determined by the department.*

FREN114 Elementary French II 3 crs. 3 hrs. *Prq: FREN 101, FREN 110 or FREN 113.* Continuation of beginners course; more complex grammatical structures; integrated reading and further practice in conversation. **Not open to students with credit in FREN 102.**

FREN115 Elementary Conversation 2 crs. 2 hrs. *Prq: FREN 101 or FREN 113.* For non-native speakers; practice in language used in daily conversation. **Not open to students with credit in FREN 213.** *Not offered on a regular basis. Availability to be determined by the department. 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.*

FREN200 Commercial French I 3 crs. 3 hrs. *Prq: FREN 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.*

FREN206 Introduction to Haitian Literature 3 crs. 3 hrs. *Prq: FREN 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.*

FREN210 Introduction to Literary Theory and Analysis 3 crs. 3 hrs. *Prq: FREN 106.* An introduction through close reading of selected texts to a variety of reading approaches and critical methodology central to the study of literature.

FREN212 French Linguistics 3 crs. 3 hrs. *Prq: FREN 106 or department permission required.* This course offers a general overview of the major branches of French linguistics. It focuses on both synchronic and diachronic linguistics. It includes syntax, morphology, phonology, semantics and pragmatics. *3 hours lecture.*

FREN213 Intermediate Conversation 3 crs. 3 hrs. *Prq: FREN 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.*

FREN217 Advanced Grammar and Composition 3 crs. 3 hrs. *Prq: FREN 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.*

FREN220 Survey of French Literature II 3 crs. 3 hrs. *Prq: FREN 106 or department permission required.* This course is the second half of the survey of French literature. It examines the evolution of French through novel, poetry and theater from 1789 to the present. **Not open to students with credit in French 220.**

FREN221 French Literature from the Middle Ages to the Revolution in Translation 3 crs. 3 hrs. *Prq: Sophomore status or permission of instructor.* Major works of French literature through the Revolutionary period. **Not credited toward fulfillment of French major requirements. Not open to students with credit in FREN 325, FREN 326, FREN 330 or FREN 333.** *Not offered on a regular basis. Availability to be determined by the department.*

FREN232 Survey of French Literature II. 3 hrs Lecture, 3 cr; *Prreq: French 231 or permission of the Department.* This course is the second half of the survey of French literature. It examines the evolution of French through novel, poetry and theater from 1789 to the present.

FREN225 Commercial French II 3 crs. 3 hrs. *Prq: FREN 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.*

FREN226 French & Francophone Women's Writing 3 crs. 3 hrs. *Prq: ENG 125.* Introduces students to significant literature written by women of the French and Francophone speaking world.

FREN240 Translation I 3 crs. 3 hrs. *Prq: FREN 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.*

FREN241 Translation II 3 crs. 3 hrs. *Prq: FREN 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.*

FREN313 History of the French Language 3 crs. 3 hrs. *Prq: FREN 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.*

FREN323 The Novel in the Nineteenth Century 3 crs. 3 hrs. *Prq: FREN 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.*

FREN324 Nineteenth Century Poetry and Theater 3 crs. 3 hrs. *Prq: FREN 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.*

FREN325 The Age of Enlightenment 3 crs. 3 hrs. *Prq: FREN 106.* Theater, novel, and works of the Philosophers (Montesquieu, Voltaire, Diderot, Rousseau) in relation to the political and social thought of the 18th century. **Not open to students with credit in FREN 221.** *Not offered on a regular basis. Availability to be determined by the department.*

FREN327 The Twentieth-Century Novel and Theater I 3 crs. 3 hrs. *Prq: FREN 106.* Major French novelists and dramatists of the 20th century; concentration on works published before 1945. **Not open to students with credit in FREN 222.** *Not offered on a regular basis. Availability to be determined by the department.*

FREN328 The Twentieth-Century Novel and Theater II 3 crs. 3 hrs. *Prq: FREN 106.* Major French novelists and dramatists of the 20th century; concentration on works published after 1945. **Not open to students with credit in FREN 222.** *Not offered on a regular basis. Availability to be determined by the department.*

FREN329 Twentieth-Century Poetry 3 crs. 3 hrs. *Prq: FREN 106.* Major contemporary French poets. **Not open to students with credit in FREN 222.** *Not offered on a regular basis. Availability to be determined by the department.*

FREN330 The Age of Classicism 3 crs. 3 hrs. *Preq: FREN 106.* Study of the best known writers of the 17th century; philosophers, moralists, dramatists. **Not open to students with credit in FREN 221.** Not offered on a regular basis. Availability to be determined by the department.

FREN333 Masterpieces of the Middle Ages and the Sixteenth Century 3 crs. 3 hrs. *Preq: FREN 106.* Literature of the period; poetry, theater, and prose. **Not open to students with credit in FREN 221.** Not offered on a regular basis. Availability to be determined by the department.

FREN334 Literature of the French West Indies 3 crs. 3 hrs. *Preq: FREN 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.

FREN335 Literature of French Speaking Africa 3 crs. 3 hrs. *Preq: FREN 106.* Best known writers of Senegal, Cameroon, Guinea, 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.

FREN338 Love in French Literature 3 crs. 3 hrs. *Preq: Any French literature course at the 200-level. (except FREN 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.

FREN340 Advanced Conversation 3 crs. 3 hrs. *Preq: FREN 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.

FREN362 Themes in French Literature 3 crs. 3 hrs. *Preq: FREN 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.

FREN363 Themes in French Literature 3 crs. 3 hrs. *Preq: FREN 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.

FREN381 French Society and Civilization 3 crs. 3 hrs. *Preq: FREN 106.* The culture and civilization of France against an historical background. Not offered on a regular basis. Availability to be determined by the department.

FREN382 Haitian Culture & Civilization 3 crs. 3 hrs. *Preq: FREN 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.

FREN400 Senior Seminar 3 crs. 3 hrs. *Preq: FREN 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.

GEOG

GEOG112 Geography of the New World 3 crs. 3 hrs. *Preq: 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 credited toward fulfillment of Natural Science requirement.** Not offered on a regular basis. Availability to be determined by the department.

GEOG114 Geography of the Old World 3 crs. 3 hrs. *Preq: 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 credited toward fulfillment of Natural Science requirement.** Not offered on a regular basis. Availability to be determined by the department.

GEOG271 Principles of Physical and Economic Geography 3 crs. 3 hrs. *Preq: The influence of physical factors such as weather and climate on mans geographic environment, and the effect of this environment on economic activity and development.* **Not credited toward fulfillment of Natural Science requirement.** Not offered on a regular basis. Availability to be determined by the department.

GEOL

GEOL110 Man and the Earth 3 crs. 3 hrs. *Preq: An introduction to the earth environment and its relationship to human affairs; earth quakes, volcanic activity, land use and abuse, geologic time, rocks and minerals.* **Not open to students with credit in GEOL 140.** A one day field trip is required. This course, when combined with Geology 207 counts as a lecture-laboratory course of 4 credits.

GEOL115 Energy, Resources and the Environment 3 crs. 3 hrs. *Preq: An introduction to the availability, distribution, recovery and significance of the earths 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.* **Not credited toward fulfillment of Geology major requirements.**

GEOL120 Our Oceanic Environment 3 crs. 3 hrs. *Preq: Introduction to the 71 per cent of the earths surface covered by water. The oceans; our climatic thermostat, a not-so-inexhaustible resource, and their management and preservation.* **Not credited toward fulfillment of geology major requirements.** One day field trip required.

GEOL121 History of Life 3 crs. 3 hrs. *Preq: 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.* **Not credited toward fulfillment of geology major requirements.** One day field trip required.

GEOL140 Our Earth 3 crs. 4 hrs. *Preq: 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.* **Not open to student with credit in GEOL 110 or GEOL 207.** A museum visit and a one-day trip are required.

GEOL207 Geologic Techniques 1 crs. 2 hrs. *Preq: GEOL 110.* GEOL 110. Field and laboratory techniques in geology; field identification of common rocks and minerals; introduction to aerial photographs, topographic and geologic maps. **Not open to students with credit in GEOL 111.** 2 hours laboratory. Two field trips required.

GEOL211 Structural Geology 4 crs. 6 hrs. *Preq: GEOL 110 and GEOL 207 or GEOL 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. 2 hours lecture, 4 hours laboratory. Two field trips required.

GEOL213 Paleontology 3.5 crs. 5 hrs. *Preq: GEOL 110 or GEOL 140 or permission of instructor.* The study, classification, distribution and evolutionary trends of the common invertebrate fossils groups. 2 hours lecture, 3 hours laboratory. Field trip required.

Geology 217. Earth History with Paleontology 4 hrs. lecture, 3 hrs. lab, 5 cr. *Prereq: Geology 110 or Geology 140 or Geology 121.* 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; and concepts of plate tectonics. The Paleontology component will focus on the study, classification, distribution, and evolutionary trends of the common invertebrate fossil groups that inhabited the Earth over the course of history. Laboratory work includes interpretation of geologic sections, identifications of common invertebrate fossils, particularly index fossils, and correlation of stratigraphic units. One field trip is required.

GEOL225 Mineralogy 5 crs. 7 hrs. *Preq: GEOL 110 or GEOL 140.* Principles of crystal symmetry and structure, physical and chemical properties of minerals; mineral identification procedures, descriptive mineralogy. **Not open to students with credit in GEOL 222 and GEOL 223.** 3 hours lecture, 4 hours laboratory.

GEOL282 Weather and Climate 3 crs. 4 hrs. *Preq: Completion of Natural Science General Education Program requirement.* An introduction to the earths 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. 2 hours lecture, 2 hours laboratory.

GEOL305 Earth History 3 crs. 4 hrs. Preq: GEOL 211 and GEOL 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. 2 hours lecture, 2 hours laboratory. Field trip required.

GEOL308 Geomorphology 3 crs. 4 hrs. Preq: GEOL 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. 2 hours lecture, 2 hours laboratory. Two field trips required.

GEOL323 Field Methods 1.5 crs. 3 hrs. Preq: GEOL 211. Use of the Brunton Compass, telescopic alidade, and planetable. **Not open to students with credit in GEOL 322.** Two field trips required.

GEOL326 Petrology with Optical Mineralogy 5 crs. 8 hrs. Preq: GEOL 225. CHEM 101. 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. **Not open to students with credit in GEOL 333.** 3 hours lecture, 4 hours laboratory, 1 hour fieldwork.

Geology 332. Optical Mineralogy 1hr. lecture, 2 hrs. lab, 2 cr. Prereq: Geology 225 Co-requisite: Chem 101 Optical properties of minerals. Use of the petrographic microscope. Preparation of rock and mineral thin sections. Identification of common rock forming minerals in thin section and as crushed grains. A field trip is required.

Geology 334. Petrology 2 hrs. lecture, 4 hrs. lab, 4 cr. Prereq: Geology 332 The classification, origin, description and identification of igneous, sedimentary and metamorphic rocks. Students work with hand specimens and outcrops in the field as well as petrographic microscopes and rock thin sections. Two field trips are required.

GEOL340 Remote Sensing and Air Photo Interpretation 2 crs. 3 hrs. Preq: GEOL 110 or GEOL 140 and MATH 101. A survey of the various remote sensing techniques; fundamentals of photogrammetry; interpretation of geologic, geographic and economic features as seen as aerial photographs. 1 hour lecture, 2 hours laboratory. A one day field trip is required.

GEOL341 Ground Water Hydrology 2 crs. 2 hrs. Preq: GEOL 110 or GEOL 140 and MATH 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.

GEOL342 Rock and Soil Mechanics 2 crs. 3 hrs. Preq: GEOL 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. 1 hours lecture, 2 hours laboratory. A one day field trip is required.

GEOL343 Ore Deposits and Ore Evaluation 2 crs. 3 hrs. Preq: GEOL 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. 1 hour lecture, 2 hours laboratory. A one day field trip is required.

GEOL344 Industrial Minerals and Fossil Fuels 2 crs. 3 hrs. Preq: GEOL 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. 1 hour lecture, 2 hours laboratory. A one day field trip is required.

GEOL346 Laboratory Techniques in Geology 2 crs. 3 hrs. Preq: GEOL 110 or GEOL 140 and GEOL 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. 1 hours lecture, 2 hours laboratory.

GEOL349 Assessment of Environmental Impact 1 crs. 1 hrs. Preq: GEOL 110 or GEOL 140. 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. **Not credited toward fulfillment of Science Area Requirements.** A one day field trip is required.

GEOL403 Paleoeecology 3 crs. 4 hrs. Preq: GEOL 213 or permission of instructor. Techniques and principles for interpreting fossil communities in terms of age and environment; paleontologic and evolutionary features which distinguished major units in the geological time scale. 2 hours lecture, 2 hours laboratory. Field trip required.

GEOL411 Sedimentation 3 crs. 4 hrs. Preq: GEOL 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.. 2 hours lecture, 2 hours laboratory. Two field trips required.

GEOL412 Stratigraphy 3 crs. 4 hrs. Preq: GEOL 211 and GEOL 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. 2 hours lecture, 2 hours laboratory. Two field trips required.

GEOL425 Field Mapping 4 crs. 120 hrs. Preq: GEOL 323. 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. **Not open to students with credit in GEOL 424.** 120 hours of field work or laboratory. Expenses are usually \$275.00. A final professional style report is required.

GEOL441 Geochemistry 3 crs. 4 hrs. Preq: GEOL 333. Survey of geochemical principles and techniques; distribution and migration of the chemical elements within the earth; radio-active and stable isotopes in geology. 2 hours lecture, 2 hours laboratory. Field trip required.

GEOL442 Geophysics 3 crs. 4 hrs. Preq: GEOL 211 and PHYS 104 and PHYS 108 or PHYS 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. 2 hours lecture, 2 hours laboratory. Two field trips required.

GEOL490 Senior Seminar in Geology 3 crs. 0 hrs. Preq: Senior status in Geology. Synthesis of geologic concepts and techniques and discussion of current geologic theories. Discussion led by Geology faculty. Hours arranged. Not offered on a regular basis. Availability to be determined by the department.

GEOL496 Independent Study 2 crs. 4 hrs. Preq: Permission of instructor prior to registration. Independent Study or research on advanced topics under the supervision of a member of the faculty. **Not open to students with a combined total of 12 credits in Independent Study in the Natural Sciences Department.** Field trips may be required. A formal report on topic is required. 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.

GEOL497 Independent Study 3 crs. 6 hrs. Preq: Permission of instructor prior to registration. Independent Study or research on advanced topics under the supervision of a member of the faculty. **Not open to students with a combined total of 12 credits in Independent Study in the Natural Sciences Department.** Field trips may be required. A formal report on topic is required. 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.

GEOL498 Independent Study 2 crs. 4 hrs. *Preq:* Permission of instructor prior to registration. Individual research on advanced topics under the supervision of a member of the faculty. **Not open to students with a combined total of 12 credits in Independent Study in the Natural Sciences Department.** Minimum 4 hours/week. Hours arranged. Field trips may be required. Not offered on a regular basis. Availability to be determined by the 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.

GEOL499 Independent Study 3 crs. 6 hrs. *Preq:* Permission of instructor prior to registration. Individual research on advanced topics under the supervision of a member of the faculty. **Not open to students with a combined total of 12 credits in Independent Study in the Natural Sciences Department.** Minimum 6 hours/week. Hours arranged. Field trips may be required. A formal report on topic is required. *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.

GERM

GERM101 Elementary German I 4 crs. 4 hrs. *Preq:* Basic principles of a beginner's course; designed to give the foundations of the language. Offered when the demand exists.

GERM102 Elementary German II 4 crs. 4 hrs. *Preq:* GERM 101 or GERM 113, or two years of secondary school German, or by placement examination. Continuation of the beginner's course; more complex grammatical structures, integrated readings and further practice in conversation. **Not open to students with credits in GERM 111 or GERM 114.** Offered when the demand exists.

GERM105 Intermediate German I 3 crs. 3 hrs. *Preq:* GERM 102 or GERM 114. Intensive oral-aural practice based on selected readings; functional review of grammar. Offered when the demand exists.

GERM106 Intermediate German II 3 crs. 3 hrs. *Preq:* GERM 105. Development of reading and writing proficiency in the intermediate level using revision and editing techniques augmented by selected literacy texts. Offered when the demand exists.

GERM128 Scientific German I 3 crs. 3 hrs. *Preq:* 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.

GERM129 Scientific German II 3 crs. 3 hrs. *Preq:* GERM 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.

GERO

GERO101 Introduction to Gerontology I 3 crs. 3 hrs. *Preq:* Interdisciplinary view of the field of gerontology with emphasis on perspectives offered by anthropology, biology, health and physical education, political science and sociology.

GERO201 Intermediate Gerontology II 3 crs. 3 hrs. *Preq:* GERO 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.

GERO301 Wellness and The Elderly: Programs and Services 3 crs. 3 hrs. *Preq:* GERO 201. 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. **Not open to students with credit in HE 330.** 3 hours lecture.

GRK

GRK101 Elementary Greek I 4 crs. 4 hrs. *Preq:* Basic principles of a beginner's course; designed to give the foundations of the language.

GRK102 Elementary Greek II 4 crs. 4 hrs. *Preq:* GRK 101. Continuation of the beginner's course; more complex grammatical structures integrated readings and further practice in conversation.

HE

HE111 Personal Health Issues 3 crs. 3 hrs. *Preq:* 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 open to students with 6 or more credits in Health Education. Not open to students with credit in HE 110. Not credited towards Health Education major requirements.** Not offered on a regular basis. Availability to be determined by the department.

HE150 Fitness for Living 2 crs. 3 hrs. *Preq:* 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 students needs. **Not open to students with credit in PE 150.** Not offered on a regular basis. Availability to be determined by the department.

HE200 Basic Cardiac Life Support 1 crs. 1 hrs. *Preq:* 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.

HE201 Foundations of Health and Wellness 2 crs. 2 hrs. *Preq:* ENG 125. This course will examine the historical, philosophical, and theoretical principles and foundations of health and wellness. Perspectives on the role of health education in keeping people healthy, and future trends in health promotion will be analyzed. Learning experiences will be designed to assist the student in developing critical thinking and critical reading skills in order to promote and maintain wellness of target populations across the life process.

HE210 Health Issues for the Physical Educator 2 crs. 2 hrs. *Preq:* This course will familiarize the physical educator with current concepts of health theories and issues in the areas of personal health assessment and behavioral change concepts across the life span.

HE211 Stress and Health 2 crs. 2 hrs. *Preq:* The causes of stress and its relationship to health; self-help techniques for managing stress and tension. **Not open to students with credit in HE 491 Seminar: Stress and Health.**

HE241 Sex and Sexuality 3 crs. 3 hrs. *Preq:* Physiology aspects of human sexuality, cross cultural patterns, changing sexual roles, sexuality and the law, premarital behavior, marriage and the family.

HE312 Health and Disease 3 crs. 3 hrs. *Preq:* The nature of communicable and degenerative diseases, with emphasis on agencies, principles and techniques of prevention and control.

HE313 Alcohol and Alcoholism 3 crs. 3 hrs. *Preq:* Physiological, psychological and sociological changes which result from alcohol use and abuse, emphasis on the cause, treatment and prevention of alcoholism and alcohol abuse.

HE314 Nutrition and Health 2 crs. 2 hrs. *Preq:* The relationship of foods and nutrition to personal health and health problems, such as weight control.

HE315 Health and the Consumer 2 crs. 2 hrs. *Preq:* 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.

HE316 Family Health 3 crs. 3 hrs. *Req:* The physical, social, and emotional aspects of health in relationship to the life cycle within the family.

HE317 First Aid and Safety Education 2 crs. 2 hrs. *Req:* 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.

HE319 Health Services 3 crs. 3 hrs. *Req:* Health services in school and community settings; a review of the health delivery system with implications for health education programs. **Not open to students with credit in HE 322.**

HE320 Program Planning 3 crs. 3 hrs. *Req:* HE 323 and HE 324, and either HE 319 or HE 488 or GERO 301. WRIT 301, or WRIT 302, or WRIT 303. WRIT 301, WRIT 301, or WRIT 302, or WRIT 303. The theoretical design of a health or gerontological education program; includes needs assessment, target group description, problem analysis, development of appropriate objectives, educational intervention, and the identification of resources. *This is a writing intensive course.*

HE321 Health Counseling 3 crs. 3 hrs. *Req:* HE 223 and HE 224, and either PSY 215 and PSY 216 for Community Health majors, or Educ 280 and EDUC 281 for Health Education K-12 majors. Theory and practice of individual and group health counseling as applied to weight control, drug abuse, smoking, birth control, and other personal health problems.

HE323 Health Behavior 2 crs. 2 hrs. *Req:* Completion of Behavioral Science Area Requirements. HE 324. Factors influencing health choices and decision making. Examination of theoretical models for effecting health behavior change.

HE324 Laboratory in Health Behavior 1 crs. 2 hrs. *Req:* Completion of Behavioral Science Area Requirements HE 323. Students participate in the design and application of various models for health behavior change.

HE341 HIV/AIDS Public Health Implications 3 crs. 3 hrs. *Req:* ENG 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.

HE342 Drug Use and Abuse 3 crs. 3 hrs. *Req:* 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.

HE363 Measurement and Evaluation in Health and Physical Education 3 crs. 3 hrs. *Req:* MATH 111. Nature and purpose of measurement in health and physical education; analysis of pertinent test and their use in evaluating performance in these areas. **Not open to students with credit in PE 363.**

HE420 Alcoholism Counseling 3 crs. 3 hrs. *Req:* HE 313 and HE 321. The development and application of health counseling skills when working with alcoholics, alcohol abusers and their families in varied educational and therapeutic settings.

HE450 Practicum in Health Education 2 crs. 2 hrs. *Req:* HE 471 or HE 472. Development of leadership skills in health education.

HE452 Cardiovascular Fitness 3 crs. 4 hrs. *Req:* PE 358 or permission of instructor. 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 open to students with credit in PE 452.** 2 hours lecture, 2 hours laboratory. Students registering for this course are advised to register for 2 credits of field work in health or physical education. *Not offered on a regular basis. Availability to be determined by the department.*

HE471 Field Work in Health Education 1 crs. 2 hrs. *Req:* 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.

HE472 Field Work in Health Education 1 crs. 2 hrs. *Req:* 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.

HE473 Field Work in Health Education 2 crs. 4 hrs. *Req:* HE 320, HE 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.

HE474 Field Work in Health Education 2 crs. 4 hrs. *Req:* HE 320, HE 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.

HE481 Organization and Administration of Health Education 3 crs. 3 hrs. *Req:* HE 331. 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. **Not open to students with credit in PE 481 or PE 482.**

HE487 Adult Fitness Program 3 crs. 3 hrs. *Req:* Junior status in departmental major. Planning, designing, managing and evaluating adult fitness programs.

HE488 Health Promotion in the Workplace 3 crs. 3 hrs. *Req:* HE 331 and permission of department. 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.*

HE489 Special Seminar in Health Education 1 crs. 1 hrs. *Req:* 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.*

HE490 Special Seminar in Health Education 1 crs. 1 hrs. *Req:* 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.*

HE491 Special Seminar in Health Education 2 crs. 2 hrs. *Req:* Permission of instructor. Intensive study of a special area of interest in health education. *Not offered on a regular basis. Availability to be determined by the department.*

HE492 Special Seminar in Health Education 2 crs. 2 hrs. *Req:* Permission of instructor. Intensive study of a special area of interest in health education. *Not offered on a regular basis. Availability to be determined by the department.*

HE493 Special Seminar in Health Education 3 crs. 3 hrs. *Req:* 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.*

HE494 Special Seminar in Health Education 3 crs. 3 hrs. *Req:* 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.*

HE495 Independent Study in Health Education 1 crs. 0 hrs. *Req:* 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. Hours to be arranged.

HE496 Independent Study in Health Education 1 crs. 0 hrs. *Req:* 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. Hours to be arranged.

HE497 Independent Study in Health Education 2 crs. 0 hrs. *Req:* 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. Hours to be arranged.

HEB498 Independent Study in Health Education 2 crs. 0 hrs. *Preq: 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. *Hours to be arranged.*

HEB

HEB101 Elementary Hebrew I 4 crs. 4 hrs. *Preq: Basic principles of a beginner's course; designed to give the foundations of the language. Offered when the demand exists.*

HEB102 Elementary Hebrew II 4 crs. 4 hrs. *Preq: HEB 101, or two years of secondary school Hebrew, or by placement.* Continuation of the beginner's course; more complex grammatical structures, integrated readings and further practice in conversation. *Offered when the demand exists.*

HEB105 Intermediate Hebrew I 3 crs. 3 hrs. *Preq: HEB 102 or HEB 114.* Intensive oral-aural practice based on selected readings; functional review of grammar. *Offered when the demand exists.*

HEB106 Intermediate Hebrew II 3 crs. 3 hrs. *Preq: HEB 105.* Development of reading and writing proficiency in the intermediate level using revision and editing techniques augmented by selected literacy texts. *Offered when the demand exists.*

HIST

HIST100 History of the Modern World Since 1815 3 crs. 3 hrs. *Preq: ENG 125. ENG 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.

HIST101 Pacific Century: The Emergence of Modern Pacific Asia 3 crs. 3 hrs. *Preq: ENG 125. ENG 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. Availability to be determined by the department.*

HIST105 The City in the Modern World 3 crs. 3 hrs. *Preq: ENG 125. ENG 125.* The historical role of the city in the development of the modern world. *Not offered on a regular basis. Availability to be determined by the department.*

HIST106 Revolution and Social Thought 3 crs. 3 hrs. *Preq: ENG 125. ENG 125.* Revolution and social thought as a means of comprehending the development of the modern world. *Not offered on a regular basis. Availability to be determined by the department.*

HIST108 The Three Worlds: Europe, the Americas and the Third World in Modern Times 3 crs. 3 hrs. *Preq: ENG 125. ENG 125.* Europe, the Americas, Africa and Asia in modern times; selected historical studies of imperialism, colonialism, nationalism and independence movements.

HIST113 The Birth of Europe 3 crs. 3 hrs. *Preq: ENG 125. ENG 125.* The formation of European civilization from earliest times into the 17th century.

HIST201 Beginnings of the American People 3 crs. 3 hrs. *Preq: ENG 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.

HIST202 The Emergence of Urban America 3 crs. 3 hrs. *Preq: ENG 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.

HIST203 Slavery in World History 3 crs. 3 hrs. *Preq: ENG 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. Availability to be determined by the department.*

HIST204 Contemporary America 3 crs. 3 hrs. *Preq: ENG 125.* 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. **Not open to students with credit in HIST 323.**

HIST205 History of Women in the United States 3 crs. 3 hrs. *Preq: ENG 125.* Women in American history: their status and contributions.

HIST206 Women and the Family in World History 3 crs. 3 hrs. *Preq: ENG 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.

HIST220 History of Science 3 crs. 3 hrs. *Preq: ENG 125.* Traces the conceptual development, from ancient to modern times, of key ideas and methods that define and differentiate Natural Sciences.

HIST257 East Asia to the Nineteenth Century 3 crs. 3 hrs. *Preq: ENG 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.

HIST258 East Asia from 1800 to the Present 3 crs. 3 hrs. *Preq: ENG 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. *3 hours lecture.*

HIST262 History of the Middle East 3 crs. 3 hrs. *Preq: ENG 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.*

HIST263 Jewish History: From Ancient Israel until the end of the Middle Ages 3 crs. 3 hrs. *Preq: ENG 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.*

HIST264 Jewish History: The Modern Period 3 crs. 3 hrs. *Preq: ENG 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.*

HIST272 African-American History 3 crs. 3 hrs. *Preq: ENG 125.* Realities of the Afro-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.*

HIST273 The American Worker 3 crs. 3 hrs. *Preq: ENG 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.

HIST274 The American Ethnic Experience 3 crs. 3 hrs. *Preq: ENG 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.

HIST275 African History until 1800 3 crs. 3 hrs. *Preq: ENG 125.* Pre-Colonial period; social, economic, and cultural aspects of African civilization.

HIST276 African History from 1800 until the Present 3 crs. 3 hrs. *Preq: ENG 125.* Development of Africa in the light of imperialism and African nationalism.

HIST277 The Caribbean since Columbus 3 crs. 3 hrs. *Preq: ENG 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.

HIST278 History of Modern India 3 crs. 3 hrs. *Preq: ENG 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.

HIST311 The Colonial Period of American History, 1492-1760 3 crs. 3 hrs. *Preq: ENG 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.*

HIST312 The Era of the American Revolution, 1760-1815 3 crs. 3 hrs. *Preq: ENG 125 and three credits of History.* The formative years of the American Republic from the War of Independence to the War of 1812.

HIST313 The Civil War 3 crs. 3 hrs. *Preq: ENG 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.*

HIST315 American Diplomatic History, 1789-1914 3 crs. 3 hrs. *Preq: ENG 125 and three credits of History.* Foreign relations of the United States from the American Revolution to 1914. *Not offered on a regular basis.*

HIST316 American Diplomacy in the Twentieth Century 3 crs. 3 hrs. *Preq: ENG 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.*

HIST326 American Economic History since the Civil War 3 crs. 3 hrs. *Preq: ENG 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.*

HIST331 The Ancient Near East and Greece 3 crs. 3 hrs. *Preq: ENG 125 and three credits of History.* Development of civilization in the ancient Orient and Hellenic Greece. *Not offered on a regular basis.*

HIST332 The Ancient World: Rome 3 crs. 3 hrs. *Preq: ENG 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.*

HIST333 Nineteenth-Century Europe 3 crs. 3 hrs. *Preq: ENG 125 and three credits of History.* European development from the age of Napoleon to 1914.

HIST334 Twentieth-Century Europe 3 crs. 3 hrs. *Preq: ENG 125 and three credits of History.* European development from 1914 to 1945.

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HIST335 Russia from the Middle Ages to 1855 3 crs. 3 hrs. *Preq: ENG 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.*

HIST336 Russia from 1855 to the Present 3 crs. 3 hrs. *Preq: ENG 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.*

HIST337 Modern England 3 crs. 3 hrs. *Preq: ENG 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.*

HIST338 Modern France 3 crs. 3 hrs. *Preq: ENG 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.*

HIST339 Modern Germany: 1648-1945 3 crs. 3 hrs. *Preq: ENG 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.*

HIST340 The Holocaust: The Jewish Experience Under Nazism 3 crs. 3 hrs. *Preq: ENG 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.*

HIST344 Contemporary Europe 3 crs. 3 hrs. *Preq: ENG 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.*

HIST353 Modern China 3 crs. 3 hrs. *Preq: ENG 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.*

HIST354 Modern Japan 3 crs. 3 hrs. *Preq: ENG 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.*

HIST359 Contemporary China and Japan 3 crs. 3 hrs. *Preq: ENG 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.*

HIST367 Colonial Latin America 3 crs. 3 hrs. *Preq: ENG 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.

HIST368 Latin America since 1825 3 crs. 3 hrs. *Preq: ENG 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.

HIST373 The History of Technology 3 crs. 3 hrs. *Preq: ENG 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.*

HIST375 Decolonization in West Africa 3 crs. 3 hrs. *Preq: ENG 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.

HIST376 West Africa since Independence 3 crs. 3 hrs. *Preq: ENG 125 and 3 credits of History.* An analysis of the progress and problems of West Africa since independence (1960 to the present).

HIST400 Seminar in History 3 crs. 3 hrs. *Preq: At least three credits of History at 200 level or higher and Junior status. WRIT 301. WRIT 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.*

HIST401 Seminar in History 3 crs. 3 hrs. *Preq: At least three credits of History at 200 level or higher and Junior status. WRIT 301. WRIT 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.*

HIST402 Seminar in History 3 crs. 3 hrs. *Preq: At least three credits of History at 200 level or higher and Junior status. WRIT 301. WRIT 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.*

HIST403 Seminar in History 3 crs. 3 hrs. *Preq: At least three credits of History at 200 level or higher and Junior status. WRIT 301. WRIT 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.*

HIST490 Senior Research in History 3 crs. 3 hrs. *Preq: At least three credits of History at 200 level or higher, Senior status and WRIT 301.* Intensive, individually guided advanced research. *Not offered on a regular basis.*

HPEH

HPEH110 Science Technology and Environment 3 crs. 3 hrs. *Preq: 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. Not credited toward fulfillment of Environmental Health Major Requirement.*

HPEH140 Environmental Management 3 crs. 4 hrs. *Preq: 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.*

HPEH340 Pollution Control Technology 3 crs. 3 hrs. *Req: PHYS 105 and PHYS 103, HPGC 211, HPGC 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.

HPEH343 Environmental Physiology 3 crs. 3 hrs. *Req: HPGC 211, HPGC 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.

HPEH351 Fundamentals of Air Pollution 3 crs. 3 hrs. *Req: CHEM 230 or CHEM 231.* 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. *Not credited toward fulfillment of CHEM 251.*

HPEH420 Water Quality Analysis and Management 4 crs. 6 hrs. *Req: HPEH 340, CHEM 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. *2 hours lecture, 4 laboratory hours. Offered Fall semesters.*

HPEH424 Food Sanitation 3 crs. 3 hrs. *Req: HPGC 211, BIO 465, CHEM 230.* The sanitation of food production, processing and distribution; physical, chemical and biological aspects of sanitation; food packaging control, food additives, adulteration and misbranding.

HPEH425 Disease Vector Control 4 crs. 6 hrs. *Req: HPGC 211, HPGC 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.*

HPEH426 Solid Waste Management 3 crs. 3 hrs. *Req: HPGC 211, HPGC 212, CHEM 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.*

HPEH427 Industrial Hygiene 3 crs. 3 hrs. *Req: HPGC 211, HPGC 212, CHEM 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.

HPEH428 Water Pollution Biology 3 crs. 3 hrs. *Req: 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.

HPEH429 Environmental Management 3 crs. 3 hrs. *Req: HPGC211, HPGC 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.

HPEH430 Field Study in Environmental Health Science 6 crs. 40 hrs. *Req: 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.

HPEH498 Independent Study 3 crs. 6 hrs. *Req: Permission of Instructor prior to registration.* Individually guided study of an advanced topic in Environmental Health Science. 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. Hours arranged. Minimum 6 hours per week.*

HPEH499 Independent Study 3 crs. 6 hrs. *Req: Permission of Instructor prior to registration.* Individually guided study of an advanced topic in Environmental Health Science. 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. Hours arranged. Minimum 6 hours per week.*

HPGC

HPGC101 Basic Concepts of Health Professions 2 crs. 2 hrs. *Req: 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.*

HPGC102 Public Health 3 crs. 3 hrs. *Req: 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. *Fields trips may be required.*

HPGC201 Principles of Epidemiology 3 crs. 3 hrs. *Req: HPGC 102 or BIO 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.*

HPGC211 Principles of Environmental Health Sciences 2 crs. 2 hrs. *Req: HPGC 101, CHEM 102, MATH 121, BIO 202; or permission of instructor.* 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. **Not open to students with credit in HPEH 321 or HPEH 322.** *2 hours lecture.*

HPGC212 Principles of Environmental Health Sciences in Laboratory 2 crs. 4 hrs. *Req: HPGC 101, CHEM 102, MATH 121, BIO 202, or permission of instructor. HPGC 211.* 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. **Not open to students with credit in HPEH 321 or HPEH 322.** *4 hours laboratory. Field trips may be required.*

HPMT

HPMT330 Human Anatomy and Physiology for Medical Technologists 3 crs. 4 hrs. *Req: BIO 202, CHEM 230/CHEM 235 or CHEM 231/CHEM 232.* 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. **Not open to students with credit in HPOT 316.** *2 hours lecture, 2 hours laboratory.*

HPMT332 Tissue Techniques 2 crs. 4 hrs. *Req: BIO 202, CHEM 230/CHEM 235 or CHEM 231/CHEM 232.* Discussion of the chemical rationale of staining procedures; preparation of slides through sectioning and staining. *4 hours laboratory.*

HPMT341 Clinical Immuno-Serology Techniques 1 crs. 2 hrs. *Prq:* BIO 466, CHEM 230/CHEM 235 or CHEM 231/CHEM 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. 2 hours laboratory.

HPMT343 Immuno-Hematology and Blood Banking 3 crs. 4 hrs. *Prq:* BIO 466, CHEM 230/CHEM 235 or CHEM 231/CHEM 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. 2 hours lecture, 2 hours laboratory.

HPMT351 Clinical Chemistry 4 crs. 5 hrs. *Prq:* BIO 202, CHEM 230/CHEM 235 or CHEM 231/CHEM 232. *HPMT 322.* An introduction to the theoretical and practical aspects of clinical chemistry. In addition to the analytical methods currently in use, the chemical principles upon which these methods are based will be included. Emphasis will be placed on the clinical correlations and analytical procedures performed on serum, plasma, and other body fluids to determine quantitative assays of analytes such as cardiac enzymes, and those involved in liver and renal diseases. Topics to be presented may include vitamins, minerals, carbohydrates, enzymes, blood gases, therapeutic drug monitoring, and toxicology. **Not credited toward fulfillment of Biology Major requirements.** 3 lecture hours, 2 laboratory hours.

HPMT352 Hematology/Body Fluids 3 crs. 4 hrs. *Prq:* BIO 202, CHEM 230/CHEM 235 or CHEM 231/CHEM 232. The formed elements of the peripheral blood, their precursors, function and structure, including basic methodologies for quantification of cells and cellular components are presented and discussed. Normal and abnormal cellular morphologies, their clinical relevance in both the quantitative and qualitative assessment of disease in blood and body fluids are emphasized. 2 hours lecture, 2 hours laboratory.

HPMT353 Medical Parasitology 3 crs. 4 hrs. *Prq:* BIO 202, CHEM 230/CHEM 235 or CHEM 231/CHEM 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. 2 hours lecture, 2 hours laboratory.

HPMT 356. Microbiology & Immunology. 2 hrs. lecture; 2 cr. *Prreq:* All prerequisites required for admission into the PA Program and official acceptance into the program. Pathogenic bacteria, fungi, protozoa, viruses, rickettsiae and helminths are considered with regard to human disease manifestations, host-parasite relationships, antimicrobial agents, other treatments and control. Includes the human immune system, resistance to disease and clinical immunology.

HPMT457 Clinical Internship in Medical Technology I 9 crs. 40 hrs. *Prq:* 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. Full-time clinical internship at affiliated hospital with rotation periods in various sections of the laboratory. 40 hours/week, 6 months full time. Graded on Pass/Fail basis.

HPMT458 Clinical Internship in Medical Technology II 9 crs. 40 hrs. *Prq:* HPMT 457 and permission of the Medical Technology Coordinator. Full-time clinical internship. 40 hours/week, 6 months full time. Graded on Pass/Fail basis.

HPMT498 Independent Study in Medical Technology 3 crs. 3 hrs. *Prq:* Senior status and permission of instructor. Investigation of a special project under the guidance of a faculty member.

HSPA

HSPA 301 Pharmacology I 3 hrs, Lecture, 2 cr., *Prreq:* Permission of physician assistant faculty. First of a two-course sequence; the study of pharmacology principles as they apply to the practice of medicine.

HSPA 302 Pharmacology II. 3 hrs, Lecture, 2 cr., *Prreq:* Permission of physician assistant faculty. Further exploration of pharmacological principals as they apply to future prescriptive practice as a physician assistant.

HSPA 304 Interviewing and Counseling. 1 hr, Lecture, 1 cr., *Prreq:* Permission of physician assistant faculty. Analysis of health professional-patient interactions. Psychosocial factors impacting physical and emotional health.

HSPA 305 PA Profession. 2 hrs, Lecture, 1 cr., *Prreq:* Permission of physician assistant faculty. Introduction to the role of PA, with an emphasis on the history, training, practice characteristics and certification process.

HSPA 313 Clinical Skills. 3 hrs, Lecture, 1 cr., *Prreq:* Permission of physician assistant faculty. Practical sessions introducing basic skills necessary for clinical practice as a physician assistant. Includes instruction in electrocardiography, suturing and casting/splinting.

HSPA 324 Diagnostic Studies. 3 hrs, Lecture, 2 cr., *Prreq:* Permission of physician assistant faculty. The indications, limitations and procedures of medical laboratory, radiology laboratory, and other diagnosis utilized in modern medicine. Basic procedures for performing diagnostic examinations and will be given the opportunity to practice them in several cases. Interpretation of common studies. 2 hours lecture, 1 hour lab.

HSPA 337 Anatomy. 3 hrs Lecture, 2 hrs Lab, 3 cr., *Prreq:* Permission of physician assistant faculty. Clinically focused embryology, gross anatomy and neuroanatomy. Incorporates the use of computer simulations, anatomical models and videotapes. Clinically focused embryology, gross anatomy and neuroanatomy. Incorporates the use of computer simulations, anatomical models and videotapes. Provides an understanding of the developmental, structural and functional anatomy of the human body relevant to the needs of the physician assistant. Associations are made with clinical pathophysiology and clinical medicine. 2 hours lecture, 3 hours lab.

HSPA 356 Microbiology. 2 hrs, Lecture, 1 cr., *Prreq:* Permission of physician assistant faculty. Pathogenic bacteria, fungi, protozoa, viruses, rickettsiae and helminths are considered with regard to human disease manifestations, host-parasite relationships, antimicrobial agents, other treatments and control.

HSPA 357 Pathology. 3 hrs, Lecture, 3 cr., *Prreq:* Permission of physician assistant faculty. Introduction to the study of human pathophysiology as the foundation of clinical medicine.

HSPA 401 Physical Diagnosis I. 2 hrs, Lecture, 3 hrs lab, 3 cr., *Prreq:* Permission of physician assistant faculty. First of a two-course sequence; instruction in eliciting a complete medical history and performing a physical examination.

HSPA 402 Physical Diagnosis II. 2 hrs, Lecture, 3 hrs lab, 3 cr., *Prreq:* Permission of physician assistant faculty. Further exploration of the strategies and skills of medical history taking and physical examination.

HSPA 408 Psychosocial Dynamics. 1.5 hrs, Lecture, 1 cr., *Prreq:* Permission of physician assistant faculty.

This course introduces the student to the basic tenets of clinical psychiatry and emphasizes the biopsychosocial approach to patient treatment, which analyzes the sociological, cultural and psychological factors that influence an individual's illness.

HSPA 410 Internal Medicine I. 6 hrs, Lecture, 2 cr., *Prreq:* Permission of physician assistant faculty. First of a two-course sequence designed to familiarize the student with various internal medicine problems. Foundations in cardiology, pulmonary, hematology/oncology, dermatology and rheumatology for Physician Assistant clinical practice.

HSPA 412 Internal Medicine II. 6 hrs, Lecture, 2 cr., *Prreq:* Permission of physician assistant faculty. Second of a two-course sequence designed to familiarize the student with various internal medicine problems.

HSPA 425 Clinical Correlations. 2.5 hrs, Lecture, 1 cr., Prereq: Permission of physician assistant faculty. This problem-based learning course is taught in small group format, and will develop the student's critical thinking skills by working through clinical case scenarios.

HSPA 428 Primary Care I. 3 hrs. Lecture, 2 cr. Prereq : Permission of physician assistant faculty. First in a two-course sequence. Primary care medicine, with an emphasis on urban health care.

HSPA 430 Primary Care II. 4 hrs, Lecture, 1 cr., Prereq: Permission of physician assistant faculty. Second in a two-course sequence. Foundations of pediatrics and obstetrics/gynecology with emphasis on Physician Assistant clinical practice in an urban setting

HSPA 435 Emergency Medicine. 3 hrs, Lecture, 1 cr., Prereq: Permission of physician assistant faculty. Fundamentals of care for clinical problems seen in the emergency setting. Emphasizes problems commonly seen in an urban emergency room.

HSPA 449 Surgery. 4 hrs, Lecture, 2 cr., Prereq: Permission of physician assistant faculty. Fundamentals of the diagnosis and management of surgical disorders.

HSPA 450 Surgical Clinical Rotation. 1 cr., Prereq: Permission of physician assistant faculty. This five-week rotation takes place in a inpatient hospital setting and also includes outpatient surgical clinic duties.

HSPA 451 Internal Medicine Clinical Rotation. 1 cr., Prereq: Permission of physician assistant faculty. This five-week rotation takes place in a hospital setting.

HSPA 452 Pediatrics Clinical Rotation. 1 cr., Prereq: Permission of physician assistant faculty. This five-week rotation takes place in a hospital (including outpatient clinic), clinic and/or private office setting.

HSPA 453 Emergency Medicine Rotation. 1 cr., Prereq: Permission of physician assistant faculty. This five-week rotation takes place in the hospital emergency department.

HSPA 454 Long Term Care Rotation. 1 cr., Prereq: Permission of physician assistant faculty. This five-week rotation takes place in nursing homes, specialized geriatric facilities, and chronic care facilities.

HSPA 455 Psychiatry Rotation. 1 cr., Prereq: Permission of physician assistant faculty. This five-week rotation takes place in a psychiatric hospital, hospital psychiatric department or clinic setting.

HSPA 456 Primary Care Clinical Clerkship. 2 cr., Prereq: Permission of physician assistant faculty. This clinical rotation will provide the student with the opportunity to acquire skills and knowledge necessary to diagnose and treat adult patients with primary care medical problems. This ten-week rotation takes place in an ambulatory setting such as an outpatient clinic or private office.

HSPA 457 Obstetrics and Gynecology Clinical Rotation. 1 cr., Prereq: Permission of physician assistant faculty. This five-week rotation takes place in a hospital (including outpatient clinic), clinic and/or private office setting.

HSPA 458 Family Medicine Clinical Rotation. 1 cr., Prereq: Permission of physician assistant faculty. This five-week rotation will provide the student with the opportunity to acquire skills and knowledge necessary to diagnose and treat patients of all ages presenting with primary care medical problems.

HSPA 459 Ambulatory Care Clinical Rotation. 1 cr., Prereq: HSPA 428 and Permission of physician assistant faculty. This five-week rotation will provide the student with the opportunity to acquire skills and knowledge necessary to diagnose and treat adult patients presenting with primary care medical problems.

HUM

HUM101 American Tradition of Social Change 3 crs. 3 hrs. *Prereq:* This course examines texts and new media which express the desire for or the fact of political, social or economic change in the context of American culture; the current problems which engage the historian, social scientist, artist or the humanist will be explored. **Open only to Freshmen and Sophomores.** *Not offered on a regular basis. Availability to be determined by the department.*

HUM202 Introduction to Linguistics 3 crs. 3 hrs. *Prereq:* ENG 125. Practical introduction to general and historical linguistics.

HUM203 Tradition and Innovation in the Twentieth Century 6 crs. 6 hrs. *Prereq:* ENG 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.*

HUM204 Ibsen and Strindberg 3 crs. 3 hrs. *Prereq:* ENG 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.*

HUM205 Gateway to the Modern Age 6 crs. 6 hrs. *Prereq:* ENG 125 and *Sophomore status.* The flowering of individualism in the 15th and 16th centuries; history, the arts, literature and philosophy interrelated. **Not open to students with credit in HIST 343.** *Not offered on a regular basis. Availability to be determined by the department. History majors may credit 3 of the 6 credits toward major requirements.*

HUM206 Judaism I Aspects and Trends from the Beginning to the Middle Ages 3 crs. 3 hrs. *Prereq:* ENG 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.*

HUM207 Judaism II Modern and Contemporary 3 crs. 3 hrs. *Prereq:* ENG 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.*

HUM225 The Jewish People in the Greco-Roman World: 333 B.C. to 476 A.D. 3 crs. 3 hrs. *Prereq:* ENG 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.*

HUM230 Fairness Equity 3 crs. 3 hrs. *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.*

HUM235 The Digital Revolution 3 crs. 3 hrs. *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.*

HUM250 The Italian Experience in the United States 3 crs. 3 hrs. *Prereq:* ENG 125. A study of the historical, political, literary and artistic experiences and achievements of Italian immigrants and their descendants in the United States. Music, cinema, language, and other issues of ethnic identity will be explored. *Not offered on a regular basis. Availability to be determined by the department. This course will be taught as a Writing Intensive Course; students will draft and revise at least 10 pages during the semester.*

HUM251 Asian American Experience 3 crs. 3 hrs. *Prereq:* ENG 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.

HUM252 The Jewish Experience in the United States 3 crs. 3 hrs. Preq: ENG 125. This course will examine the political, social, institutional and religious development of American Jewry from the Colonial period to the present.

HUM253 The Haitian Experience in the USA 3 crs. 3 hrs. Preq: ENG 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.

HUM257 The French: People, Language, and Culture 3 crs. 3 hrs. Preq: ENG 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.*

HUM260 The World of Opera: A Concise History 3 crs. 3 hrs. Preq: ENG 125. A study of the history of opera. Special emphasis will be placed on the contributions of composers from diverse linguistic and cultural backgrounds.

HUM272 The Latino Experience in the U.S. 3 crs. 3 hrs. Preq: ENG 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.*

HUM281 Introduction to Eastern Religion 3 crs. 3 hrs. Preq: ENG 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.*

HUM282 Introduction to Western Religion 3 crs. 3 hrs. Preq: ENG 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.*

HUM283 Mahayana Buddhism 3 crs. 3 hrs. Preq: ENG 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.*

HUM284 Studies in Twentieth-Century Christian Thought 3 crs. 3 hrs. Preq: ENG 125. 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.*

HUM290 Special Topics in Humanites 3 crs. 3 hrs. Preq: ENG 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.*

HUM300 The Nature of Human Communication 3 crs. 3 hrs. Preq: ENG 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.*

HUM302 Women's Studies I 3 crs. 3 hrs. Preq: ENG 125 and Sophomore status. 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. **Not open to students with credit in HUM 301.**

HUM303 Women's Studies II 3 crs. 3 hrs. Preq: ENG 125 and Sophomore status. 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. **Not open to students with credit in HUM 301.**

HUM310 Prejudice Viewed Existentially 3 crs. 3 hrs. Preq: ENG 125 and Sophomore status. An analysis, from a predominantly existential approach, of the attitudes towards "The Other" in the person of the Jew, the Woman, and the Black. *This course is the same as BHSC 310.*

ITAL

ITAL101 Elementary Italian I 4 crs. 4 hrs. Preq: Basic principles of a beginners' course designed to give the foundation for understanding, speaking, reading, and writing the language; study of simple syntax. **Not open to students with credit in ITAL 113.** *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.*

ITAL102 Elementary Italian II 4 crs. 4 hrs. Preq: ITAL 101 or ITAL 113, or two years of secondary school Italian, or by placement examination. Continuation of the beginners' course; integrated reading and further practice in conversation. **Not open to students with credit in ITAL 114.** *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. Students may continue 102 audio-visual. Not offered on a regular basis. Availability to be determined by the department. There will be some audiovisual sections for students who prefer a greater emphasis on the spoken language, intergrating the use of films, videotapes and*

ITAL104 Rapid Review of Basic Italian 3 crs. 3 hrs. Preq: ITAL 102. 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 credited toward fulfillment of Italian Major. Not open to students with credit in ITAL 105 or above.** *Not offered on a regular basis. Availability to be determined by the department.*

ITAL105 Intermediate Italian I 3 crs. 3 hrs. Preq: ITAL 102 or ITAL 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.*

ITAL106 Intermediate Italian II 3 crs. 3 hrs. Preq: ITAL 105. Intensive oral-aural practice based on literary texts. *Not offered on a regular basis. Availability to be determined by the department.*

ITAL113 Elementary Italian I 3 crs. 3 hrs. Preq: Beginners' course designed to give a broad basis for speaking, reading, and writing the language. **Not open to students with credit in ITAL 101.** *Not offered on a regular basis. Availability to be determined by the department.*

ITAL114 Elementary Italian II 3 crs. 3 hrs. Preq: ITAL 101 or ITAL 113. Continuation of the beginners' course; more complex grammatical structures; integrated reading and further practice in conversation. **Not open to students with credit in ITAL 102.** *Not offered on a regular basis. Availability to be determined by the department. Courses numbered 200 and above are normally conducted entirely in Italian, except when otherwise indicated.*

ITAL200 Commercial Italian I 3 crs. 3 hrs. Preq: ITAL 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.*

ITAL207 Historical Survey of Italian Literature I: From its Origin to Mid-Sixteenth Century 3 crs. 3 hrs. Preq: ITAL 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.*

ITAL208 Historical Survey of Italian Literature II: From Mid-Sixteenth Century to Mid-Nineteenth Century 3 crs. 3 hrs. Preq: ITAL 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.*

ITAL209 Historical Survey of Italian Literature III: From Mid-Nineteenth Century to the Present 3 crs. 3 hrs. *Req: ITAL 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.*

ITAL225 Commercial Italian II 3 crs. 3 hrs. *Req: ITAL 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. *Not offered on a regular basis. Availability to be determined by the department. The student will be exposed to a wide range of Italian commercial terminology. Speakers from various business firms will address the students.*

ITAL230 Intermediate Conversation 3 crs. 3 hrs. *Req: ITAL 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.*

ITAL232 Advanced Conversation 3 crs. 3 hrs. *Req: ITAL 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.*

ITAL233 Advanced Grammar with Composition 3 crs. 3 hrs. *Req: ITAL 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.*

ITAL234 Advanced Composition and Style 3 crs. 3 hrs. *Req: ITAL 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.*

ITAL240 Translation I 3 crs. 3 hrs. *Req: ITAL 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.*

ITAL241 Translation II 3 crs. 3 hrs. *Req: ITAL 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.*

ITAL243 The Italian Theatre I: From its Origin to the End of the Eighteenth Century 3 crs. 3 hrs. *Req: ITAL 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.*

ITAL245 Italian Renaissance 3 crs. 3 hrs. *Req: ITAL 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.*

ITAL247 The Italian Theatre II: Nineteenth and Twentieth-Century Italian Theatre 3 crs. 3 hrs. *Req: ITAL 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.*

ITAL248 Italian Short Story 3 crs. 3 hrs. *Req: ITAL 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.*

ITAL250 Nineteenth-Century Italian Novel 3 crs. 3 hrs. *Req: ITAL 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.*

ITAL251 Twentieth-Century Italian Novel 3 crs. 3 hrs. *Req: ITAL 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.*

ITAL265 Nineteenth-Century Italian Poetry 3 crs. 3 hrs. *Req: ITAL 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.*

ITAL266 Twentieth-Century Italian Poetry 3 crs. 3 hrs. *Req: ITAL 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.*

ITAL313 Dante's Divine Comedy I: Inferno 3 crs. 3 hrs. *Req: ITAL 106 or permission of instructor.* A close examination of Dante's Inferno with some consideration of Vita Nuova; particular attention to allegory, symbolism, and structure. *Not offered on a regular basis. Availability to be determined by the department.*

ITAL315 Petrarch and Boccaccio 3 crs. 3 hrs. *Req: ITAL 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.*

ITAL317 Dante's Divine Comedy II: Purgatorio 3 crs. 3 hrs. *Req: ITAL 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.*

ITAL318 Dante's Divine Comedy III: Paradiso 3 crs. 3 hrs. *Req: ITAL 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.*

ITAL319 Pirandello 3 crs. 3 hrs. *Req: ITAL 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.*

ITAL353 Italian Culture and Civilization 3 crs. 3 hrs. *Req: Development of Italian culture and history and its contribution to science, philosophy, music, and fine arts. Not offered on a regular basis. Availability to be determined by the department. Conducted in English.*

ITAL356 A Major Italian Author in Translation 3 crs. 3 hrs. *Req: 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.*

ITAL400 Individual Study 3 crs. 0 hrs. *Req: Permission of instructor.* Independent, guided research under the supervision of the Italian faculty. *Hours arranged. Not offered on a regular basis. Availability to be determined by the department.*

ITAL405 Seminar in Italian Literature 3 crs. 3 hrs. *Req: ITAL 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.*

JOUR

JOUR 280 Introduction to Journalism. 3 hrs.; 3 cr.; Prereq: English 125 Introduction to the basics of news reporting and writing for newspapers and other media

JOUR 281 Introduction to Feature Writing. 3 hrs.; 3 cr.; Prereq: English 125 Introduction to feature writing for newspapers and magazines.

JOUR 282 Introduction to Writing Broadcast News. 3 hrs.; 3 cr. Prereq: English 125 Introduction to broadcast journalism and the basics of writing television and radio news.

JOUR 285. Basics of Online Journalism 3 hrs.; 3 cr. Prereq: English 125 Introduction to the fundamentals of practicing JOUR online in an environment that encourages a multi-media presentation of content.

JOUR 321 Editorial Writing, Commentary and Criticism. 3 hrs.; 3 cr. Prereq: JOUR 280 or 281 Introduction to the journalism practices, standards and skills involved in producing professional-level "opinion writing" for newspapers, magazines, online and in some instances broadcast.

JOUR 322 Advanced Feature Writing. 3 hrs.; 3 cr. Prereq: JOUR 281 Building on JOUR 281, this course explores the advanced skills and techniques needed to produce in-depth features for magazines and newspapers.

JOUR 381 Investigative Journalism & In-Depth Reporting. 3 hrs.; 3 cr. Prereq: JOUR 280 Examination of the advanced reporting, research and news writing methods that leads to producing revealing, authoritative investigative pieces.

JOUR 382 Non-Fiction Book Writing. 3 hrs.; 3 cr. Prereq: JOUR 280 or 281 or English 286 Combining techniques learned in earlier classes, students will study the process of reporting, writing, and publishing a book-length treatment of what essentially starts out as a news (or non-fiction) story.

JOUR 383 Beat Reporting and Community News Coverage. 3 hrs.; 3 cr. Prereq: JOUR 280 Introduction to the special skills and journalistic concerns associated with working as a "beat reporter" while covering local news.

JOUR 384 JOUR Literature. 3 hrs.; 3 cr. Prereq: JOUR 281 An examination of the superior reporting, writing and storytelling techniques that gave rise to a tradition of great JOUR Literature in America.

JOUR 385 Essentials of Editing. 3 hrs.; 3 cr. Prereq: JOUR 280 or 281 Coreq: English 270 and Writing 301 Introduction to the basics of professionally editing JOUR for print and online while using the most up-to-date editing tools.

JOUR 387 Journalism Ethics, and Legal Issues. 3 hrs.; 3 cr. Prereq: JOUR 280 or 281 Introduction to the fundamental issues, practices and rules applied to JOUR ethics and legal questions.

JOUR 388 Digital Photo Journalism. 3 hrs.; 3 cr. Prereq: Fine Arts 381 and either JOUR 280 or 281 Introduction to the principles and theories of photoJOUR in a filmless environment.

JOUR 389 Advanced Reporting and Writing for Broadcast News. 3 hrs.; 3 cr. Prereq: JOUR 282 A hands-on approach to mastering the more sophisticated reporting techniques and writing formats used in broadcast news.

JOUR 399 Special Topics in Journalism 3 hrs.; 3 cr. Prereq: JOUR 280 or 281 or 282 A selected topic in JOUR studies. The topic varies with each offering.

JOUR 481 Broadcast Journalism Fieldwork. 3 hrs.; 3 cr. Prereq: Senior status and successful completion of 27 credits toward major. Students spend approximately eight to ten hours per week working for a professional broadcast company in their news division.

JOUR 483 News Writing and Reporting Fieldwork. 3 hrs.; 3 cr. Prereq: Senior status and successful completion of 27 credits toward major. Students spend approximately eight to ten hours per week working for a professional publication in their news or feature division.

JOUR 486 Publishing Fieldwork. 3 hrs.; 3 cr. Prereq: Senior status and successful completion of 27 credits toward major. Students spend approximately eight to ten hours per week working for a professional publication or publisher.

LAT

LAT101 Elementary Latin I 4 crs. 4 hrs. Prereq: Basic principles of a beginner's course; designed to give the foundations of language. *Offered when the demand exists.*

LAT102 Elementary Latin II 4 crs. 4 hrs. Prereq: LAT 101. Continuation of the beginner's course; more complex grammatical structures integrated readings and further practice in conversation. *Offered when the demand exists.*

MATH

MATH101 Algebra and Trigonometry 1 crs. 4 hrs. Prereq: MATH 011, MATH 020, MATH 100 or by placement. Linear and quadratic equations, exponents, logarithms, coordinate systems, trigonometric functions, solution of triangles, identities and equations. **May not be used to meet General Education Requirements.**

MATH102 Intermediate Algebra 1 crs. 3 hrs. Prereq: MATH 011 or by placement. 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. **May not be used to meet General Education Requirements. Not credited toward fulfillment of mathematics major requirements.**

MATH111 Introduction to Statistics and Probability 4 crs. 4 hrs. Prereq: MATH 102, the equivalent, or placement exam. Elements of statistics, graphs, frequency distributions, measures of central tendency and measures of dispersion; elementary probability theory, counting, binomial and normal distributions. **Not credited toward fulfillment of Mathematics major requirements. Not open to students with credit in MATH 180, MATH 210, or MATH 221.**

MATH115 Quantitative Methods for Decision Making 4 crs. 4 hrs. Prereq: MATH 102, the equivalent, or placement examination. Functions, systems of linear equations, matrices, elementary linear programming; elementary calculus; mathematics of finance; and related topics. **Not credited toward fulfillment of Mathematics major requirements. Not open to students with credit in MATH 221.**

MATH119 Computer Algebra System 1 crs. 1 hrs. Prereq: MATH 102 MATH 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.

MATH120 Pre-Calculus 4 crs. 4 hrs. Prereq: MATH 102. MATH 119. Advanced topics in algebra, functions and graphs, inverse functions, composite functions, polynomial and rational functions, trigonometry, exponential and logarithmic functions. **Not to be used to satisfy the general education requirement and not to be used to satisfy the requirement for mathematics major.**

MATH121 Analytic Geometry and Calculus I 4 crs. 4 hrs. Prereq: MATH 119 and MATH 120. 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. **Not open to students with credit in MATH 184.**

MATH122 Analytic Geometry and Calculus II 4 crs. 4 hrs. Prereq: MATH 121 or MATH 184. Derivatives and integrals of transcendental functions, applications of integration, methods of integration, L'Hopital's rule, improper integrals, infinite series, conic sections.

MATH141 Discrete Mathematics 3 crs. 3 hrs. Prereq: MATH 115 or MATH 121, or equivalent. 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.

MATH150 Mathematics and its Applications 4 crs. 4 hrs. Prereq: Passing CUNY Math Skills Test. Survey course for liberal art students that emphasizes recent mathematics and its applications, especially mathematics which supports the development of new technologies. **Not credited toward Mathematics major requirements. Not open to students with credit in MATH 221** Topics will be selected from geometry, algebra, discrete mathematics, etc.

MATH172 Introduction to Computing. Please contact the department chair for further information on this course

MATH184 Analytic Geometry and Calculus I 4 crs. 5 hrs. Prereq: MATH 101 or by placement Same content as Mathematics 121, supplemented with selected precalculus material. **Not open to students with credit in MATH 121.** Not offered on a regular basis. Availability to be determined by the department.

MATH190 Computers in Modern Society 4 crs. 4 hrs. Prereq: MATH 102, the equivalent, or placement exam. Introduction to computer programming, using the language BASIC; solution of simple problems in many fields to broaden the students view of the capabilities of the computer; an overview of current computer systems, software, and trends. **Not credited toward fulfillment of Mathematics major requirements. Not open to students with credit in MATH 191.** Students are expected to complete several laboratory assignments.

MATH20 Algebra and Geometry 0 crs. 4 hrs. *Preq: 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.

MATH210 Probability and Statistics I 4 crs. 4 hrs. *Preq: MATH 122.* Basic concepts of probability theory: combinatorial problems, random variables, distributions, expectation; law of large numbers, central limit theorem, applications. **Not open to students with credit in MATH 111 or MATH 181, except by permission of Chair of Mathematics and Computer Studies Department.**

MATH211 Probability and Statistics II 4 crs. 4 hrs. *Preq: MATH 210 and MATH 221.* Fundamental concepts of statistics, multivariate distributions, sampling theory, estimation theory, hypothesis testing, goodness-of-fit, linear regression. **Not open to students with credit in MATH 113, except by permission of the Chair of Mathematics and Computer Studies Department.**

MATH221 Analytic Geometry and Calculus III 4 crs. 4 hrs. *Preq: MATH 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.

MATH222 Differential Equations 4 crs. 4 hrs. *Preq: MATH 221.* The solution of ordinary differential equations, including linear equations of first and higher order; introduction to partial differential equations.

MATH223 Differential Equations 4 crs. 4 hrs. *Preq: MATH 221.* An introduction to differential and difference equations: first order equations; higher order equations with constant coefficients; linear systems; applications. Introduction to dynamical systems, orbits, and chaos, showing the connection with differential equations. Modeling applications.

MATH225 Discrete Mathematical Structures 4 crs. 4 hrs. *Preq: MATH 115, or MATH 121, or MATH 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. 4 hours lecture.

MATH230 Theory of Numbers 4 crs. 4 hrs. *Preq: MATH 122.* Properties of integers, divisibility; prime numbers, congruences, and diophantine equations. Other selected topics.

MATH241 Combinatorial Geometry 4 crs. 4 hrs. *Preq: MATH 122.* Selected basic topics in the theory of graphs and convex sets. Topics are selected from such areas as connectivity, trees, planarity, Eulers formula, coloring problems, constant width, support theorems, packing and covering problems, polyhedra.

MATH242 Geometric Structures 4 crs. 4 hrs. *Preq: MATH 122.* Axiom systems; Euclidean geometry; survey of various non-Euclidean geometries. Other selected topics. *Other selected topics.*

MATH243 Combinatorial and Discrete Geometry 3 crs. 3 hrs. *Preq: MATH 122.* A survey of Euclidean and non-Euclidean geometrical ideas primarily from a non-metrical perspective. Axiom systems. Distance functions. Basic topics in the theory of graphs; trees, planarity, networks, coloring problems, and Euler's polyhedral formula. Basic topics in convexity, discrete, and computational geometry: Helly's theorem, curves of constant breadth, the Sylvester-Gallai theorem, and Voronoi diagrams.

MATH244 Geometric Structures 4 crs. 4 hrs. *Preq: MATH 122.* A survey of Euclidean and non-Euclidean geometrical ideas primarily from a metrical point of view. Axiom systems, distance functions, polyhedra and tilings, geodesics, configuration theorems, graphs, and geometry of surfaces. *Other selected topics.*

MATH271 Mathematics for Elementary School Teachers 4 crs. 4 hrs. *Preq: MATH 101, MATH 102 or pass CUNY Math Skills Test.* Mathematical reasoning, problem-solving, elementary theory, structures and concepts of arithmetic, numeration systems, integers, rational and real numbers, number theory, elementary probability and statistics. **Not credited toward fulfillment of Mathematics major requirements. Not open to students with credit in MATH 122.**

MATH272 Geometry and Measurement 2 crs. 2 hrs. *Preq: MATH 101, MATH 102 or pass CUNY Math Skills Test.* 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. **Not open to students with credit in MATH 122.** *Prospective teachers should take this course in conjunction with MATH 271, although MATH 271 is not a prerequisite.*

MATH300 Guided Study of Selected Topics in Mathematics 1 crs. 0 hrs. *Preq: Junior status, and permission of department.* Individual study under supervision of mathematics faculty. *Hours arranged.*

MATH301 Guided Study of Selected Topics in Mathematics 1 crs. 0 hrs. *Preq: Junior status, and permission of department.* Individual study under supervision of mathematics faculty. *Hours arranged.*

MATH302 Actuarial Mathematics I 1 crs. 1 hrs. *Preq: MATH 221 and MATH 333.* Special applications of Calculus and Linear Algebra in Actuarial Science. **Not credited toward fulfillment of Mathematics major requirements.** *This course will prepare students to take Actuarial Examination Part I.*

MATH303 Actuarial Mathematics II 1 crs. 1 hrs. *Preq: MATH 210 and MATH 211.* Special applications of probability theory and statistics in Actuarial Examination Part II. **Not credited toward fulfillment of Mathematics major requirements.** *Availability to be determined.*

MATH310 Operations Research 4 crs. 4 hrs. *Preq: MATH 122.* Linear programming, game theory, decision theory, queuing theory, systems dynamics, network theory. *Other related topics in Management and Social Sciences.*

MATH311 Mathematical Methods for Physical Science 4 crs. 4 hrs. *Preq: MATH 222.* Line and surface integrals: Theorems of Green, Gauss, and Stokes. Fourier series. Transforms such as the Fourier transform, Fast Fourier transform, and Discrete Fourier transform. Orthogonal functions and wavelets. Introduction to complex functions. *Other selected topics.*

MATH313 Operations Research 3 crs. 3 hrs. *Preq: MATH 122.* A survey of deterministic operations research including mathematical programming, game theory, network flows, and scheduling. *Other related topics in Management and Social Sciences.*

MATH321 Finite Differences and Difference Equations 4 crs. 4 hrs. *Preq: MATH 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.*

MATH332 Modern Algebra 4 crs. 4 hrs. *Preq: MATH 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.

MATH333 Linear Algebra 4 crs. 4 hrs. *Preq: MATH 122 or permission of the instructor.* Systems of linear equations, matrices, determinants, Euclidean vector spaces and linear transformations, general vector spaces, basis and dimension, eigenvalues and eigenvectors. Applications to linear programming, least squares approximation, and Markov chains.

MATH335 Mathematical Logic 4 crs. 4 hrs. *Preq: MATH 122.* Introduction to mathematical logic, propositional logic, first order logic, proof systems, introduction to model theory. 4 hours lecture.

MATH395 Numerical Analysis 4 crs. 4 hrs. *Preq: MATH 191, MATH 192, MATH 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.*

MATH400 Independent Study of Selected Topics in Mathematics 2 crs. 0 hrs. *Preq: Senior status and permission of department.* Independent study under supervision of mathematics faculty. *Hours arranged.*

MATH401 Independent Study of Selected Topics in Mathematics 2 crs. 0 hrs. *Preq: Senior status and permission of department.* Independent study under supervision of mathematics faculty. *Hours arranged.*

MATH410 Mathematical Modeling 4 crs. 4 hrs. *Preq: MATH 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.

MATH423 Advanced Calculus I 4 crs. 4 hrs. *Preq: MATH 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.*

MATH424 Advanced Calculus II 4 crs. 4 hrs. *Preq: MATH 423.* Continuation of Mathematics 423. *Not offered on a regular basis. Availability to be determined by the department.*

MATH425 Introduction to Complex Analysis 4 crs. 4 hrs. *Preq: MATH 423 or permission of instructor.* Complex numbers, analytical functions, elementary functions, contour integration. Cauchy's Theorem, power series. *Other selected topics.*

MATH426 Introduction to Topology 4 crs. 4 hrs. *Preq: MATH 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.*

MATH572 Advanced Methods in High School Math Instruction 4 crs. 7 hrs. *Preq: 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. *2 hours lecture, 5 hours laboratory. Not offered on a regular basis. Availability to be determined by the department.*

MATH573 Field Activities in Math Education 2 crs. 6 hrs. *Preq: MATH 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. *6 hours field work. Not offered on a regular basis. Availability to be determined by the department.*

MKT

MKT341 Introduction to Marketing 3 crs. 3 hrs. *Preq: BUS 301.* Introduction to concepts, institutions and policies of distribution; relationships among manufacturers, wholesalers, retailers, and consumers, market research and strategies, advertising, and sales management. *(Formerly ECON 282)*

MKT342 Marketing Research 3 crs. 3 hrs. *Preq: MKT 341, MATH 115, and ECON 220.* Application of scientific methodology to development and testing of marketing programs. Examination of research tools including questionnaires, sampling, interviewing and report writing.

MKT343 Advertising and Public Relations 3 crs. 3 hrs. *Preq: MKT 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.

MKT344 Retail Management 3 crs. 3 hrs. *Preq: MKT 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.

MKT345 Principles of Selling 3 crs. 3 hrs. *Preq: MKT 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.*

MKT346 International Marketing 3 crs. 3 hrs. *Preq: MKT 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.

MKT347 Consumer Behavior 3 crs. 3 hrs. *Preq: MKT 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.

MKT350 Industrial Marketing 3 crs. 3 hrs. *Preq: MKT 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.

MKT351 Sales Management 3 crs. 3 hrs. *Preq: MKT 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.

MKT352 Direct Marketing 3 crs. 3 hrs. *Preq: MKT 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.

MKBIOT353. Aviation Marketing and Economics. 3 Hrs. Lecture, 3 Crs., Prerequisite: Economics 102 or Department permission required. An examination of the economics principles and marketing practices of the major components of the air transportation industry: Air carriers, aircraft and engine manufacturers, FBOs (fixed-base operators), and support services. Topics include: Load factors, supply and demand, elasticity, fleet selection, scheduling, yield management, cost and market structures, and advertising and promotion strategies.

MKT483 Marketing Management 3 crs. 3 hrs. *Preq: 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.

MKT490 Independent Study in Marketing 3 crs. 3 hrs. *Preq: Junior status and permission of instructor.* In-depth investigation of a marketing problem of the student's choice with faculty approval and guidance.

MUS

MUS101 Introduction to Music 3 crs. 3 hrs. *Preq:* 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. **Not credited toward fulfillment of Music major requirements. Not open to students with credit in MUS 103.**

MUS103 Introduction to Music History 3 crs. 3 hrs. *Preq: 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.

MUS110 Basic Theory I 3 crs. 3 hrs. *Preq:* Introduction to the fundamentals of music theory and its notation. Topics include scales, key signatures, intervals, transposition, chords, and simple song writing. **Not credited toward fulfillment of Music major requirements.**

MUS111 Basic Theory II 3 crs. 3 hrs. *Preq: MUS 110 or placement by examination.* Continuation of Music 110. Topics include seventh-chords, chord progressions, modulation, song writing, and theory.

MUS131 Gospel Choir I 1 crs. 3 hrs. *Preq: 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.*

MUS135 Guitar Workshop I 2 crs. 4 hrs. *Preq: 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.*

MUS136 Chorus I 2 crs. 4 hrs. *Preq: Permission of instructor.* Study and performance of selected choral master works.

MUS137 Chamber Choir I 1 crs. 3 hrs. *Preq: 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.*

MUS139 Jazz Workshop I 2 crs. 4 hrs. *Preq: 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.

MUS141 Class Instruction in Piano I 1 crs. 1 hrs. *Preq: MUS 110 and permission of instructor.* The study of keyboard literature to suit the level of the individual student. *MUS 141 is prerequisite for MUS 241. Not offered on a regular basis. Availability to be determined by the department.*

MUS142 Class Instruction in String Instruments I: Violin and Viola 1 crs. 2 hrs. *Preq: Ability to read music and permission of instructor.* Group instruction for beginning students on violin, viola, cello, and bass, with emphasis on teaching procedures. *MUS 142 is prerequisite for MUS 242. Not offered on a regular basis. Availability to be determined by the department.*

MUS143 Class Instruction in Guitar I 1 crs. 2 hrs. *Preq: Ability to read music and permission of instructor.* 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. MUS 143 is prerequisite for MUS 243.*

MUS144 Class Instruction in Woodwind Instruments I 1 crs. 2 hrs. *Preq: Ability to read music and permission of instructor.* Basic principles of woodwind techniques; practice in performing simple compositions, with an emphasis on teaching procedures. *MUS 144 is prerequisite for MUS 244. Not offered on a regular basis. Availability to be determined by the department.*

MUS145 Class Instruction in Brass Instruments I 1 crs. 2 hrs. *Preq: Ability to read music and permission of instructor.* Basic principles of brass techniques; practice in performing simple compositions, with emphasis on teaching procedures. *MUS 145 is prerequisite for MUS 245. Not offered on a regular basis. Availability to be determined by the department.*

MUS146 Jazz Improvisation I 2 crs. 4 hrs. *Preq: 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.*

MUS210 Ear Training I 2 crs. 3 hrs. *Preq: MUS 111. MUS 220.* Sight-singing, ear-training and rhythm; fixed syllables; introduction to C clefs and atonality. **Not open to students with credit in MUS 212.** To be taken simultaneously with MUS 220.

MUS211 Intermediate Musicianship II 2 crs. 3 hrs. *Preq: MUS 210. MUS 221.* Continuation of Music 210; introduction to transposition; sight-singing of Renaissance music in original clefs; florid Baroque rhythms. **Not open to students with credit in MUS 213.** To be taken simultaneously with MUS 221.

MUS220 Music Theory III 3 crs. 3 hrs. *Preq: MUS 111. MUS 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.

MUS221 Harmony and Counterpoint II 3 crs. 3 hrs. *Preq: MUS 220. MUS 211.* Continuation of Music 220. Topics include complex formal structures, transition material, writing and analysis.

MUS225 Computer Music I 3 crs. 3 hrs. *Preq: Introduction to use of microcomputers for sound synthesis.* Topics include wave form synthesis, digital sampling, multi-track recording, and MIDI interfaces.

MUS231 Gospel Choir II 1 crs. 3 hrs. *Preq: 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.*

MUS235 Guitar Workshop II 2 crs. 4 hrs. *Preq: 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.*

MUS236 Chorus II 2 crs. 4 hrs. *Preq: Permission of instructor.* Study and performance of selected choral master works.

MUS237 Chamber Choir II 1 crs. 3 hrs. *Preq: 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.*

MUS239 Jazz Workshop II 2 crs. 4 hrs. *Preq: 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.

MUS241 Class Instruction in Piano II 1 crs. 1 hrs. *Preq: MUS 110 and permission of instructor.* The study of keyboard literature to suit the level of the individual student. *MUS 141 is prerequisite for MUS 241. Not offered on a regular basis. Availability to be determined by the department.*

MUS242 Class Instruction in String Instruments II: Violin and Viola 1 crs. 2 hrs. *Preq: Ability to read music and permission of instructor.* Group instruction for beginning students on violin, viola, cello, and bass, with emphasis on teaching procedures. *MUS 142 is prerequisite for MUS 242. Not offered on a regular basis. Availability to be determined by the department.*

MUS243 Class Instruction in Guitar II 1 crs. 2 hrs. *Preq: Ability to read music and permission of instructor.* 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. MUS 143 is prerequisite for MUS 243.*

MUS244 Class Instruction in Woodwind Instruments II 1 crs. 2 hrs. *Preq: Ability to read music and permission of instructor.* Basic principles of woodwind techniques; practice in performing simple compositions, with an emphasis on teaching procedures. *MUS 144 is prerequisite for MUS 244. Not offered on a regular basis. Availability to be determined by the department.*

MUS245 Class Instruction in Brass Instruments II 1 crs. 2 hrs. *Preq: Ability to read music and permission of instructor.* Basic principles of brass techniques; practice in performing simple compositions, with emphasis on teaching procedures. *MUS 145 is prerequisite for MUS 245. Not offered on a regular basis. Availability to be determined by the department.*

MUS246 Jazz Improvisation II 2 crs. 4 hrs. *Preq: 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.*

MUS250 Afro-American Music in the United States 3 crs. 3 hrs. *Preq:* 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.

MUS253 History of Jazz 3 crs. 3 hrs. *Preq:* 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.

MUS270.WI. Introduction to Ethnomusicology. 3 hrs.; 1 cr. *Prereq:* English 125. An introduction to ethnomusicological theories and practices including a brief survey of music-cultures. Musics will be studied within their cultural and historical contexts. Regions of investigation will include, but are not limited to: Africa, South America, The Caribbean, India, Japan, and Indonesia. Fieldtrips may be included and outside musicians may perform in class. Cross-listed as Anthropology 270. This is a writing intensive course.

MUS291 Keyboard Harmony 1 crs. 3 hrs. *Preq:* MUS 111 and MUS 241. Harmonization of melodies, chord progressions, developing skills in commercial and jazz vocal and instrument accompaniment, the technique of modulation at the keyboard.

MUS310 Advanced Musicianship I 2 crs. 3 hrs. *Preq:* MUS 211. MUS 320. Advanced sight-singing, ear training and rhythm; reading transposed parts from orchestral scores; changing meters; the tritone in atonal music. **Not open to students with credit in MUS 312.**

MUS311 Advanced Musicianship II 2 crs. 3 hrs. *Preq:* MUS 310. MUS 321. Continuation of Music 310; horizontal and vertical reading of full orchestral scores; complex 20th century rhythms; sixths, sevenths and wide leaps in atonal music. **Not open to students with credit in MUS 313.**

MUS320 Harmony and Counterpoint III 3 crs. 3 hrs. *Preq:* MUS 221. MUS 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.

MUS321 Harmony and Counterpoint IV 3 crs. 3 hrs. *Preq:* MUS 320. MUS 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.

MUS322 Analysis of Musical Structure and Design 3 crs. 3 hrs. *Preq:* MUS 320. Analysis of selected musical examples with regard to the basic principles of form and organization.

MUS324 Twentieth-Century Techniques 3 crs. 3 hrs. *Preq:* MUS 320. Techniques and procedures of 20th century composition; melodic, harmonic, contrapuntal, formal, and structural bases of modern and contemporary music.

MUS326 Computer Music II 3 crs. 3 hrs. *Preq:* MUS 225. Continuation of Music 225. Topics include MIDI interfaces, writing and/or arranging.

MUS331 Gospel Choir III 1 crs. 3 hrs. *Preq:* 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.*

MUS335 Guitar Workshop III 2 crs. 4 hrs. *Preq:* 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.*

MUS336 Chorus III 2 crs. 4 hrs. *Preq:* Permission of instructor. Study and performance of selected choral master works.

MUS337 Chamber Choir III 1 crs. 3 hrs. *Preq:* 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.*

MUS339 Jazz Workshop III 2 crs. 4 hrs. *Preq:* 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.

MUS350 History of Music I 3 crs. 3 hrs. *Preq:* MUS 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.

MUS351 History of Music II 3 crs. 3 hrs. *Preq:* MUS 350. Continuation of Music 350; the 18th and 19th centuries.

MUS36 Chorus 0 crs. 3 hrs. *Preq:* Permission of instructor. Study and performance of selected choral masterpieces.

MUS37 Chamber Choir 0 crs. 3 hrs. *Preq:* Permission of instructor. Study and performance of music for small vocal groups, particularly a cappella choral music. *Not offered on a regular basis. Availability to be determined by the department.*

MUS39 Jazz Workshop 0 crs. 3 hrs. *Preq:* 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.

MUS41 Class Instruction in Piano 0 crs. 1 hrs. *Preq:* MUS 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.*

MUS420 Instrumentation 3 crs. 3 hrs. *Preq:* MUS 320. Scoring for small and large instrumental ensembles, including orchestra, jazz ensemble, and band. Microcomputers and digital sampling systems are used to perform arrangements.

MUS422 Conducting 3 crs. 3 hrs. *Preq:* MUS 322 and MUS 420. Basic principles of conducting and score reading; analysis of selected choral and orchestral works.

MUS425 Composition I 3 crs. 3 hrs. *Preq:* MUS 320. Original writing in various styles, with emphasis on the small forms. Microcomputers, MIDI interfaces, and digital sampling systems are used to perform compositions.

MUS426 Composition II 3 crs. 3 hrs. *Preq:* MUS 425. Continuation of Music 425. Emphasis on composing sound-tracks for computer generated graphic displays.

MUS429 Seminar in Theory and Composition 3 crs. 3 hrs. *Preq:* MUS 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.

MUS431 Gospel Choir IV 1 crs. 3 hrs. *Preq:* 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.*

MUS435 Guitar Workshop IV 2 crs. 4 hrs. *Preq:* 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.*

MUS436 Chorus IV 2 crs. 4 hrs. *Preq:* Permission of instructor. Study and performance of selected choral master works.

MUS437 Chamber Choir IV 1 crs. 3 hrs. *Preq:* 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.*

MUS439 Jazz Workshop IV 2 crs. 4 hrs. *Preq:* 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.

MUS450 History of Music III 3 crs. 3 hrs. *Preq:* MUS 351. Continuation of Music 351; musical developments and styles from Debussy to the present.

MUS461 Jazz Style and Techniques 3 crs. 3 hrs. *Preq: 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.

MUS490 Music Research Independent Study 3 crs. 0 hrs. *Preq: Permission of instructor.* Investigation of selected musical sources and theoretical writings on music. Individual projects. *Hours arranged.*

NS

NS100 Concepts and Methods of Science 2 crs. 4 hrs. *Preq: By placement and advisement only.* 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. **Not credited toward fulfillment of Science Distribution requirements.** 2 hours lecture, 1 hour recitation, 1 hour CAI laboratory. *Pass/No Credit grade. Not a required course. Knowledge of mathematics at the level of MATH 100 is expected.*

NS370 Honors Research Seminar 1 crs. 2 hrs. *Preq: ENG 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. **Not credited toward fulfillment of any major or general education program requirements.** 2 hours lecture/seminar bi-weekly. *Written paper required. Pass/Fail grading only.*

NS371 Honors Research Seminar 1 crs. 2 hrs. *Preq: ENG 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. **Not credited toward fulfillment of any major or general education program requirements.** 2 hours lecture/seminar bi-weekly. *Written paper required. Pass/Fail grading only.*

NS470 Honors Research Seminar 1 crs. 2 hrs. *Preq: ENG 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. **Not credited toward fulfillment of any major or general education program requirements.** 2 hours lecture/seminar bi-weekly. *Written paper required. Pass/Fail grading only.*

NS471 Honors Research Seminar 1 crs. 2 hrs. *Preq: ENG 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. **Not credited toward fulfillment of any major or general education program requirements.** 2 hours lecture/seminar bi-weekly. *Written paper required. Pass/Fail grading only.*

NURS

NURS201 Professional Nurse-Client Intersystem I 5 crs. 7 hrs. *Preq: NURS 200 and written departmental permission.* This course focuses on the use of the inter-systems approach and nursing process to promote wellness in client systems in the childbearing/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. 3 hours lecture, 4 hours laboratory.

NURS203 Health Assessment and Wellness Promotion 5 crs. 7 hrs. *Preq: NURS 200 and written permission of the Nursing Director.* The Nursing Process and Inter-system 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. 3 hours lecture, 4 hours laboratory.

NURS301 Values in Transition: Perspectives of Professional Nursing 4 crs. 4 hrs. *Preq: Admission to the Nursing Program and Department permission required.* This course introduces students to the structure of the discipline of nursing, selected theoretical and conceptual models and their application to nursing practice, research, and education as a foundation for socialization/resocialization into professional nursing practice. 4 hours lecture. *This is a Writing Intensive Course*

NURS311 Professional Nurse-Client Intersystem II 5 crs. 7 hrs. *Preq: NURS 201, NURS 203, and admission to the Nursing major.* This course focuses on the use of the inter-systems 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 inter-dependent professional nurse role in client interactions in a variety of community settings. 3 hours lecture, 4 hours laboratory.

NURS312 Professional Nurse-Client Intersystem III 5 crs. 7 hrs. *Preq: NURS 303, NURS 311.* This course utilizes the inter-systems 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. 3 hours lecture, 4 hours laboratory.

NURS314 Management and Leadership in Professional Nursing/Client Intersystems 3 crs. 3 hrs. *Preq: NURS 301.* 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. **Not open to students with credit in NURS 304.**

NURS315 Professional Nurse-Family and Community Intersystem I 6 crs. 9 hrs. *Preq: NURS 203, NURS 301.* 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. **Not open to students with credit in NURS 305.** 3 hours lecture, 6 hours field work.

NURS405 Professional Nurse-Family and Community Intersystem II: Disruption in Health Pattern 6 crs. 9 hrs. *Req: NURS 314, NURS 315; BIO 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. 3 hours lecture, 6 hours laboratory.

NURS406 Professional Nurse-Societal and Community Client Intersystems: Emergent Evolution 3 crs. 3 hrs. *Req: NURS 405 and written permission of the Director of the Nursing Program. NURS 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. 3 hours lecture. Selected field trips (i.e., health care facility, educational institutions, Supreme Court, professional nursing association, etc.)

NURS407 Research in Professional Nursing Practice 3 crs. 3 hrs. *Req: NURS 405, NURS 406 for RN/BSN students, NURS 420 and NURS 430 for Generic students and department permission required for both.* This course provides students the opportunity to synthesize knowledge and skills from the natural and behavioral sciences, humanities, and nursing theory in order to understand the research process and its importance in guiding nursing practice and improve the care of nurse-client intersystems. The student will identify a researchable problem and utilize the research process to develop a proposal. Emphasis will be placed on identifying the best available research evidence and integrating it with clinical nursing decision-making. *This is a Writing Intensive Course.*

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OT

OT313 Fundamentals of Occupational Therapy 3 crs. 3 hrs. *Req: 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.

OT315 Gross Anatomy for Human Function 3 crs. 5 hrs. *Req: BIO 202. OT 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. 2 hours lecture, 3 hours laboratory.

OT316 Functional Human Physiology 3 crs. 5 hrs. *Req: OT 315.* 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. **Not credited toward fulfillment of Biology major requirements.** 2 hours lecture, 3 hours laboratory.

OT318 Clinical Kinesiology 4 crs. 4 hrs. *Req: OT 315, permission of Occupational Therapy 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.

OT321 Use of Media in Occupational Therapy I 3 crs. 5 hrs. *Req: Permission of Occupational Therapy Faculty.* Analysis and therapeutic application of manual skills; design, and processes in selected media. 1 hour lecture, 4 hours laboratory.

OT322 Activities for Maturation and Growth 3 crs. 3 hrs. *Req: PSY 215, PSY 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.

OT403 Advanced Occupational Analysis 3 crs. 4 hrs. *Req: OT 321, OT 318.* Design of feasible research proposal for research project related to occupational therapy practice. 4 lecture hours.

OT411 Occupational Therapy Process: Pediatric Intervention 3 crs. 3 hrs. *Req: OT 432.* Analysis of elements involved in development of coordinated motor activity; perception, integration and mechanics of movement; evaluation instruments and therapeutic techniques will be presented.

OT417 Research Methods 3 crs. 3 hrs. *Req: MATH 111, permission of faculty.* This course introduces the occupational therapy student to qualitative and quantitative research designs, statistical models and tests, research methodology and literature retrieval sources. The emphasis in the course is on interpreting and utilizing research results, understanding statistics and the impact of research on theory and clinical practice. 3 hours lecture.

OT423 Integration of Collaboration 4 crs. 4 hrs. *Req: OT 321. OT 314.* 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. *With a fieldwork experience aimed at integrating course content with practice.*

OT432 Neuroscience 5 crs. 4 hrs. *Req: OT 316.* Diseases, lesions and defects of the central, peripheral, and autonomic nervous systems. 3 hours lecture, 1 hour recitation.

OT 504. Advanced Neuroscience. 3 hrs; .3 cr. This course presents current concepts of the relationship between brain function and cognitive processes needed for functional behavior. Focus will be on visual, attention, memory, and executive processes. Subjects will be addressed through literature and clinical case review, including studies of lesion localization and neuroimaging for the purposes of clinical understanding. Clinical applications will be made using appropriate clinical assessment tools and interpreting the impact of disorder in these areas on occupation.

OT505 Occupational Therapy Process I: Physical Function 4 crs. 4 hrs. *Req: OT 403, permission of Occupational Therapy Faculty.* The application of theory, models, approaches, assessments and techniques in treating conditions that impact occupational performance components. Intervention methods will include the use of occupational performance, purposeful activity, enabling activities and adjunctive modalities.

OT506. Occupational Therapy Process II: Physical Intervention 4 hrs.; 4cr. This course prepares students to understand conditions, evaluate, define problems and create and implement plans for the remediation and or compensation of problems in components of occupational performance.

OT508 Occupational Therapy Process I: Psychosocial Function 4 crs. 4 hrs. *Req: OT 423, permission of occupational therapy faculty.* This course will investigate the major psychiatric disorders and challenge students to explore the effect of these disorders on function. Student will learn clinical terminology, generic assessment tools and beginning skills in documentation, initial reports, goals and objectives. Students will also gain a foundation in the Occupational Therapy treatment process. Teaching strategies will include literature review and case based learning. *The course will be integrated into Stage 3 of the Fieldwork 1 experience through seminar, structured assign and case studies.*

OT 517. Research Design *(WI) 3hrs.; 3cr. Design of a feasible research proposal related to occupational therapy practice.

OT 518. Research Seminar I. 3 hrs.; 1 cr. Develop a feasible research proposal related to occupational therapy practice.

OT641 Field Work Experience in Occupational Therapy: Biological Perspectives 1 crs. 3 hrs. *Req: OT 427, OT 436, OT 438, OT 439 and permission of Occupational Therapy faculty.* Professionally supervised clinical experience. 3 months full time.

OT642 Field Work Experience in Occupational Therapy: Psychosocial Perspectives 1 crs. 3 hrs. *Req: OT 427, OT 438, OT 439 and permission of Occupational Therapy faculty.* Professionally supervised clinical experience. 3 months full time.

OT643 Collaboration in the Community 1 crs. 2 hrs. *Req:* OT 441, OT 442 and permission of Occupational Therapy faculty. Advanced exploration of Occupational Therapy in the community: theory and practice. 2 hours weekly seminar, 8 weeks full time.

OT 645A. Occupational Therapy Practice 3 hrs, 3 crs. *Prereq.:* Department permission required. This is an elective graduate level seminar designed for students in their last semester of didactic work after completing their fieldwork experiences. Students in this, and its companion course 645B, will have the opportunity to pursue their interest in a specialized area. Specific topics will rotate on a regular basis. Availability to be determined by the department.

OT 645B. Occupational Therapy Practice 3 hrs, 3 crs. *Prereq.:* Department permission required. This is an elective graduate level seminar designed for students in their last semester of didactic work after completing their fieldwork experiences. Students in this, and its companion course 645A, will have the opportunity to pursue their interest in a specialized area. Specific topics will rotate on a regular basis. Availability to be determined by the department.

PE

PE139 Instructional Methodologies of Teaching Sport Skills 2 crs. 2 hrs. *Req:* This course is designed to provide effective teaching strategies and instructional methodologies for instruction of various skills involved in individual and team sports. It will enhance the individual's ability to demonstrate, analyze, and provide corrective verbal feedback of basic and advanced movements and sports skills.

PE141 Weight Training 1 crs. 2 hrs. *Req:* History and benefits of weight training, training principles and procedures related to weight training, implementation of a personal weight training program. *Graded on a Pass/No Credit (NC) basis except for physical education majors.*

PE150 Fitness for Living 2 crs. 3 hrs. *Req:* 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. **Not open to students with credit in HE 150.** *Graded on a Pass/No Credit (NC) basis except for physical education majors.*

PE151 Basketball 1 crs. 2 hrs. *Req:* Basic skills leading up to actual competition; team play, rules, tactics, and strategy. *Graded on a Pass/No Credit basis except for physical education majors.*

PE153 Wrestling 1 crs. 2 hrs. *Req:* Basic skills in free style college wrestling. *Graded on a Pass/No Credit basis except for physical education majors. Availability to be determined by the department.*

PE154 Track and Field 1 crs. 2 hrs. *Req:* Basic skills in sprinting, distance running, relays, high jump, and all field events. *Graded on a Pass/No Credit basis except for physical education majors. Not offered on a regular basis. Availability to be determined by the department.*

PE155 Fencing 1 crs. 2 hrs. *Req:* Basic skills in foil fencing. *Graded on a Pass/No Credit basis except for physical education majors. Not offered on a regular basis. Availability to be determined by the department.*

PE156 Gymnastics I 1 crs. 2 hrs. *Req:* Fundamental skills in tumbling, trampolining, and gymnastic apparatus work. *Graded on a Pass/No Credit basis except for physical education majors.*

PE157 Gymnastics II 1 crs. 2 hrs. *Req:* PE 156 or permission of instructor. Intermediate and advanced gymnastic skills; emphasis on use of skills in creative gymnastic routines. *Graded on a Pass/No Credit basis except for physical education majors.*

PE158 Football 1 crs. 2 hrs. *Req:* 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. *Graded on a Pass/No Credit basis except for physical education majors.*

PE159 Self-Defense Activities 1 crs. 2 hrs. *Req:* Basic skills in self-defense activities such as Karate and/or Judo. *Graded on a Pass/No Credit basis except for physical education majors.*

PE162 Lacrosse 1 crs. 2 hrs. *Req:* Individual and team skills; formations and positional function; tactics and strategy in competition. *Graded on a Pass/No Credit basis except for physical education majors.*

PE163 Softball 1 crs. 2 hrs. *Req:* Techniques of batting, running, throwing, and catching; position play and game strategy. *Graded on a Pass/No Credit basis except for physical education majors.*

PE164 Soccer 1 crs. 2 hrs. *Req:* Individual and team skills; formations and positional function; tactics and strategy in competition. *Graded on a Pass/No Credit basis except for physical education majors.*

PE165 Volleyball 1 crs. 2 hrs. *Req:* Basic skills leading up to actual competition; team play, rules, tactics, and strategy. *Graded on a Pass/No Credit basis except for physical education majors.*

PE166 Yoga 1 crs. 2 hrs. *Req:* Beginning and intermediate postures of hatha yoga; philosophy and relaxation techniques. *Graded on a Pass/No Credit basis except for physical education majors.*

PE167 Handball 1 crs. 2 hrs. *Req:* Elements of one-wall and four-wall handball; basic shots, strategy, competitive play, rules and scoring of singles and doubles games. *Graded on a Pass/No Credit basis except for physical education majors. Availability to be determined by department.*

PE170 Canoeing 1 crs. 2 hrs. *Req:* Ability to swim 75 yards. Theory, techniques, and practice of canoeing. Includes class session, canoeing at nearby marina, and two day Delaware River field trip. *Graded on a Pass/No Credit basis except for physical education majors. Estimated student cost announced at registration. Not offered on a regular basis. Availability to be determined by the department.*

PE171 Tennis 1 crs. 2 hrs. *Req:* Fundamental techniques of the game; basic strokes and court strategy; rules and scoring of singles and doubles games. *Graded on a Pass/No Credit basis except for physical education majors.*

PE173 Folk and Social Dance 1 crs. 2 hrs. *Req:* Traditional and current dance favorites; dance skills and techniques of folk, square, ballroom, and novelty dances. *Graded on a Pass/No Credit basis except for physical education majors.*

PE174 Golf 1 crs. 2 hrs. *Req:* Theory, rules, and etiquette of golf; basic skills. *Graded on a Pass/No Credit basis except for physical education majors. Not offered on a regular basis. Availability to be determined by the department.*

PE176 Modern Dance I 1 crs. 2 hrs. *Req:* Fundamental movements and basic techniques; metrics, movement phrases, improvisation, and composition. *Graded on a Pass/No Credit basis except for physical education majors.*

PE177 Small Boat Sailing 1 crs. 2 hrs. *Req:* Ability to swim 75 yards. 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. *Graded on a Pass/No Credit basis except for physical education majors. Not offered on a regular basis. Availability to be determined by the department. Estimated student cost announced at registration.*

PE178 Outdoor Living: Hiking and Backpacking 1 crs. 2 hrs. *Req:* Essentials of hiking, backpacking and outdoor living. Includes classroom sessions and four day Adirondack or Catskill Mountains trip. *Graded on a Pass/No Credit basis except for physical education majors. Estimated student cost announced at registration.*

PE179 Skiing 1 crs. 2 hrs. *Req:* Introduction to downhill skiing. *Graded on a Pass/No Credit basis except for physical education majors. Includes classroom sessions and field trips. Estimated student cost announced at registration.*

PE181 Badminton 1 crs. 2 hrs. *Req:* Fundamental techniques of the game; basic strokes and court strategy; rules and scoring of singles and doubles game. *Graded on a Pass/No Credit basis except for physical education majors.*

PE182 Swimming for Non-Swimmers 1 crs. 2 hrs. *Preq:* Individualized program to assist non-swimmer develop basic skills, leading to elementary swimming strokes. *Graded on a Pass/No Credit basis except for physical education majors.*

PE183 African Dance 1 crs. 2 hrs. *Preq:* Techniques, practice, and rhythms in African dance. *Graded on a Pass/No Credit basis except for physical education majors. Not offered on a regular basis. Availability to be determined by the department.*

PE215 Basics of Motor Development and Motor Learning 3 crs. 4 hrs. *Preq:* Lifespan development in human performance will be examined through concepts, applications and labs associated with motor development. Students will develop a base knowledge of movement concepts and their application to physical activities in relation to motor development across the lifespan. **Not open to students with credit in both PE 312 and PE 356.** *This course will also look at the application of learning theory to the acquisition of sport and gross motor skills.*

PE271 Competitive Tennis 1 crs. 2 hrs. *Preq:* PE 171 or permission of instructor. Advanced strokes and court strategy in playing competitive singles and doubles tennis. *Graded on a Pass/No Credit basis except for physical education majors.*

PE277 Dance Composition 1 crs. 2 hrs. *Preq:* PE 176 or permission of instructor. Basic elements of choreography, solo, and group work. *Graded on a Pass/No Credit basis except for physical education majors. Not offered on a regular basis. Availability to be determined by the department.*

PE278 Modern Dance II 1 crs. 2 hrs. *Preq:* PE 176 or permission of instructor. Intensive study of Modern Dance techniques; emphasis on movement exploration and individual and group composition. *Graded on a Pass/No Credit basis except for physical education majors.*

PE279 Leadership in Outdoor Living 1 crs. 2 hrs. *Preq:* PE 178 or permission of instructor. 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. *Graded on a Pass/No Credit basis except for physical education majors. Estimated student cost announced at registration.*

PE280 Winter Mountaineering 1 crs. 2 hrs. *Preq:* PE 178 or permission of instructor. 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. *Graded on a Pass/No Credit basis except for physical education majors. Field trips provide essential practical experience. Estimated student cost announced at registration.*

PE282 Swimming 1 crs. 2 hrs. *Preq:* Skill development in swimming; emphasis on individual development of good technique and stroke development. *Graded on a Pass/No Credit basis except for physical education majors.*

PE284 Skin and Scuba Diving 1 crs. 2 hrs. *Preq:* Ability to swim 200 yards. Basic use of Scuba gear leading to Professional Association of Diving Instructors (PADI) certification: safety techniques and theory of Scuba diving. *Graded on a Pass/No Credit basis except for physical education majors. Not offered on a regular basis. Availability to be determined by the department.*

PE285 Senior Life Saving 1 crs. 2 hrs. *Preq:* Ability to swim 200 yards. Techniques of lifesaving and water rescue. Satisfactory completion certifies student for American Red Cross Senior Life Saving Certificate. *Graded on a Pass/No Credit basis except for physical education majors. Not offered on a regular basis. Availability to be determined by the department.*

PE287 Water Safety Instructor 2 crs. 3 hrs. *Preq:* Student must hold American Red Cross Advanced Life Saving Certificate within last 3 years. Theory, technique and practice of swimming instruction, lifesaving, and water safety. Satisfactory completion certifies student for American Red Cross Water Safety Instructor Certificate. **Not open to students with credit in PE 286.** *Graded on a Pass/No Credit basis except for physical education majors. Not offered on a regular basis. Availability to be determined by the department.*

PE291 Independent Study in Physical Activity 1 crs. 2 hrs. *Preq:* PE 150 or permission of instructor. 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. **Not open to students with credit in PE 330.** *Graded on a Pass/No Credit basis except for physical education majors.*

PE292 Independent Study in Physical Activity 1 crs. 2 hrs. *Preq:* PE 150 or permission of instructor. 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. **Not open to students with credit in PE 330.** *Graded on a Pass/No Credit basis except for physical education majors.*

PE293 Independent Study in Physical Activity 1 crs. 2 hrs. *Preq:* PE 150 or permission of instructor. 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. **Not open to students with credit in PE 330.** *Graded on a Pass/No Credit basis except for physical education majors.*

PE294 Independent Study in Physical Activity 1 crs. 2 hrs. *Preq:* PE 150 or permission of instructor. 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. **Not open to students with credit in PE 330.** *Graded on a Pass/No Credit basis except for physical education majors.*

PE295 Special Topic in Physical Activity 1 crs. 2 hrs. *Preq:* Students will learn rules, regulations, and techniques through physical participation in the activity. A selected area of physical activity which will vary with each offering: *Graded on a Pass/No Credit basis except for physical education majors. Not offered on a regular basis. Availability to be determined by the department.*

PE296 Special Topic in Physical Activity 1 crs. 2 hrs. *Preq:* Students will learn rules, regulations, and techniques through physical participation in the activity. A selected area of physical activity which will vary with each offering: *Graded on a Pass/No Credit basis except for physical education majors. Not offered on a regular basis. Availability to be determined by the department.*

PE310 Perceptual-Motor Activities for Children 2 crs. 3 hrs. *Preq:* 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.*

PE311 Creative Rhythms and Dance for Children 1 crs. 2 hrs. *Preq:* 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.*

PE312 Educational Gymnastics for Children 1 crs. 2 hrs. *Preq:* Basic movement principles of educational gymnastics for children. *Not offered on a regular basis. Availability to be determined by the department.*

PE313 Games and Sports for Children 1 crs. 2 hrs. *Preq:* Application of movement principles to games and sports for children. *Not offered on a regular basis. Availability to be determined by the department.*

PE315 Basic Movement 2 crs. 2 hrs. *Preq:* Movement concepts and their application to physical activities. **Not open to students with credit in PE 333.** *Students registering in this course are advised to register for PE 471 or PE 472 concurrently.*

PE322 Recreation, Organization and Leadership 3 crs. 3 hrs. *Preq:* The function and organization of recreational services and principles of recreation leadership in the community. **Not open to students with credit in PE 320 and PE 321.**

PE345 History of Dance 3 crs. 3 hrs. *Preq:* 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.*

PE346 Understanding Dance 3 crs. 3 hrs. *Preq:* 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.*

PE350 Principles and Foundations of Physical Education 2 crs. 2 hrs. *Preq:* 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.

PE353 Physical Activity for Special Populations 2 crs. 2 hrs. *Preq:* Principles of physical activity for individuals with physical, mental, or developmental disabilities, individuals with chronic disease, and the aged.

PE354 Sport and Society 2 crs. 2 hrs. *Preq:* Completion of Behavioral Science Area Requirements. Role of sport and physical activity in American life; sociological implications of sport.

PE355 Psychology of Sport and Motor Performance 2 crs. 2 hrs. *Preq:* Completion of Behavioral Science Area Requirements. *Department permission required.* 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 open to students with credit in PE 450.** *Not offered on a regular basis. Availability to be determined by the department.*

PE356 The Acquisition of Sport and Movement Skills 2 crs. 2 hrs. *Preq:* Completion of Behavioral Science Area Requirements. 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. **Not open to students with credit in PE 450.** *Not offered on a regular basis. Availability to be determined by the department.*

PE358 Physiology of Exercise 3 crs. 3 hrs. *Preq:* BIO 281. *Department permission required.* 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. **Not open to students with credit in PE 352.**

PE360 Theory and Techniques of Coaching 2 crs. 2 hrs. *Preq:* *Department permission required.* 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.*

PE361 Athletic Training and Sports Medicine 2 crs. 2 hrs. *Preq:* Principles and practices of athletic training; prevention and treatment of sports injuries; application of principles of progressive resistance exercise, massage, taping and other modalities.

PE362 Kinesiology 3 crs. 3 hrs. *Preq:* BIO 281. *Department permission required.* Anatomy of skeletal and muscular systems, mechanics of bodily movement, and detailed muscular analysis of skills used in physical activity.

PE363 Measurement and Evaluation in Health and Physical Education 3 crs. 3 hrs. *Preq:* MATH 111. *Department permission required.* Nature and purpose of measurement in health and physical education; analysis of pertinent tests and their use in evaluating performance in these areas. **Not open to students with credit in PE 451.**

PE 365. (Lib Arts) Research in Health and Physical Education. 3 hrs., 3 cr. *Pre/Co-req:* MATH 111 and ENG 125 This course is designed to introduce the concepts and methodologies in modern scientific inquiry and create the foundation for research in health and physical education. Students will be required to read and interpret scientific research, evaluate professional literature, and communicate their ideas and findings through written assignments. This is a Writing Intensive (WI) course.

PE452 Cardiovascular Fitness 3 crs. 4 hrs. *Preq:* PE 358 or equivalent preparation in Biology. *Department permission required.* The physiological and psychosocial aspects of cardiovascular fitness; status of heart disease and preventive programs, exercise stress testing, exercise prescription, and conduct of fitness activities. **Not open to students with credit in HE 452.** *Students registering for this course are advised to register for PE 473 or PE 474 concurrently.*

PE461 Professional Problems in Physical Education 2 crs. 2 hrs. *Preq:* 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.

PE471 Field Work in Physical Education and Recreation 1 crs. 2 hrs. *Preq:* *Permission of Physical Education Faculty prior to registration.* Supervised experience in the field under the guidance of a faculty advisor in physical education.

PE472 Field Work in Physical Education and Recreation 1 crs. 2 hrs. *Preq:* *Permission of Physical Education Faculty prior to registration.* Supervised experience in the field under the guidance of a faculty advisor in physical education.

PE473 Field Work in Physical Education and Recreation 2 crs. 4 hrs. *Preq:* *Permission of Physical Education Faculty prior to registration.* Supervised experience in the field under the guidance of a faculty advisor in physical education.

PE474 Field Work in Physical Education and Recreation 2 crs. 4 hrs. *Preq:* *Permission of Physical Education Faculty prior to registration.* Supervised experience in the field under the guidance of a faculty advisor in physical education.

PE482 Organization, Administration and Supervision of Physical Education 3 crs. 3 hrs. *Preq:* Senior status and physical education major. Factors involved in the administration and supervision of programs, facilities, and personnel in physical education. **Not open to students with credit in HE 481.**

PE487 Adult Fitness Programs 3 crs. 3 hrs. *Preq:* Junior status in departmental major. Planning, designing, managing, and evaluating adult fitness programs.

PE491 Special Seminar in Physical Education 2 crs. 2 hrs. *Preq:* 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.*

PE492 Special Seminar in Physical Education 2 crs. 2 hrs. *Preq:* 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.*

PE493 Special Seminar in Physical Education 3 crs. 3 hrs. *Preq:* *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.*

PE494 Special Seminar in Physical Education 3 crs. 3 hrs. *Preq:* *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.*

PE495 Independent Study in the Scientific Foundations of Physical Education 2 crs. 2 hrs. *Preq:* *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.

PE496 Independent Study in the Scientific Foundations of Physical Education 2 crs. 2 hrs. *Preq:* *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.

PE497 Independent Study in the Scientific Foundations of Physical Education 1 crs. 1 hrs. *Preq:* *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.

PE498 Independent Study in the Scientific Foundations of Physical Education 1 crs. 1 hrs. *Req: 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.

PEAT

PEAT310 Introduction to Athletic Training and Sports Medicine 3 crs. 3 hrs. *Req: BIO 281, and PE 315. PEAT 318.* 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. **Not open to students with credit in PE 361.**

PEAT318 Field Work: Introduction to Athletic Training and Sports Medicine 1 crs. 100 hrs. *Req: 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.

PEAT320 Therapeutic Exercise and Evaluation 3 crs. 3 hrs. *Req: PEAT 310, and PE 362. PEAT 328.* Principles and methods of on field evaluations for athletic injuries; clinical therapeutic exercise post injury, and pre and post surgery.

PEAT328 Field Work: Therapeutic Exercise and Evaluation 2 crs. 200 hrs. *Req: 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.

PEAT330 Scientific Basis in Athletic Training 3 crs. 3 hrs. *Req: PEAT 320, and PE 358. PEAT 338.* This course emphasizes the pathology of sports injuries and related conditions induced by training.

PEAT338 Field Work: Scientific Basis in Athletic Training. 2 crs. 200 hrs. *Req: 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.

PEAT340 Modalities and Management Strategies in Athletic Training 3 crs. 3 hrs. *Req: PEAT 330. 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.

PEAT348 Field Work: Modalities and Management Strategies in Athletic Training 3 crs. 300 hrs. *Req: 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.

PHIL

PHIL101 Freedom and Reason 3 crs. 3 hrs. *Req: 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. 3 hours lecture.*

PHIL102 Beginning Informal Logic 3 crs. 3 hrs. *Req: ENG 125. ENG 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.

PHIL103 Introduction to Philosophy 3 crs. 3 hrs. *Req: ENG 125. ENG 125.* Basic concepts and techniques of philosophical thinking.

PHIL104 Introduction to Knowledge and Value 3 crs. 3 hrs. *Req: ENG 125. ENG 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.*

PHIL121 Beginning Deductive Logic 3 crs. 3 hrs. *Req: ENG 125. ENG 125.* Introduction to the logic of propositions and arguments.

PHIL122 The Philosophy of Science 3 crs. 3 hrs. *Req: ENG 125. ENG 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 PHIL 222.**

PHIL151 Social Issues 3 crs. 3 hrs. *Req: ENG 125. ENG 125.* 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. **Not open to students who have completed PHIL 251.**

PHIL202 Major Ideas and Issues in Education 3 crs. 3 hrs. *Req: ENG 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. **Required for all teacher education.** *Fieldwork included.*

PHIL203 Philosophy of Women 3 crs. 3 hrs. *Req: PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 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.*

PHIL204 Philosophy and Literature 3 crs. 3 hrs. *Req: PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151.* Philosophical issues presented in certain works of literature. *Not offered on a regular basis. Availability to be determined by the department.*

PHIL208 Biomedical Ethics 3 crs. 3 hrs. *Req: PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 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. *Not offered on a regular basis. Availability to be determined by the department.*

PHIL211 Ancient Philosophy 3 crs. 3 hrs. *Req: PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151.* Philosophy from the Pre-Socratics to Marcus Aurelius.

PHIL213 Modern Philosophy 3 crs. 3 hrs. *Req: PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151.* Philosophy from the Renaissance through the 19th century.

PHIL217 Philosophies of India 3 crs. 3 hrs. *Req: PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 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.

PHIL218 Latin American Philosophy 3 crs. 3 hrs. *Req: PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151.* An introduction to the development of philosophy in Latin America from colonial times to the present.

PHIL219 American Philosophy 3 crs. 3 hrs. *Req: PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151.* Philosophy in the United States from the writings of the Founders to the 20th Century.

PHIL220 History of Science 3 crs. 3 hrs. *Req: Traces the conceptual development, from ancient to modern times, of key ideas and methods that define and differentiate Natural Sciences.*

PHIL224 Philosophical Problems of the Social Sciences 3 crs. 3 hrs. *Preq: PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 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.*

PHIL231 Philosophical Issues About Business 3 crs. 3 hrs. *Preq: PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151.* An examination of ethical and social issues concerning business. *Not offered on a regular basis. Availability to be determined by the department.*

PHIL241 Philosophical Psychology 3 crs. 3 hrs. *Preq: PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 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.*

PHIL251 Social, Political, and Ethical Theory Applied to Current Issues 3 crs. 3 hrs. *Preq: PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151.* 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. *Not offered on a regular basis. Availability to be determined by the department.*

PHIL261 Existentialism 3 crs. 3 hrs. *Preq: PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 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.*

PHIL341 Contemporary Philosophy 3 crs. 3 hrs. *Preq: PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 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.*

PHIL351 Ethics 3 crs. 3 hrs. *Preq: PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151.* Major writings in ethics. *Not offered on a regular basis. Availability to be determined by the department.*

PHIL352 Philosophy of Art 3 crs. 3 hrs. *Preq: PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151.* Problems in the philosophy of art. *Not offered on a regular basis. Availability to be determined by the department.*

PHIL353 Social and Political Philosophy 3 crs. 3 hrs. *Preq: PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151.* Basic philosophical issues involved in theories of man and society. *Not offered on a regular basis. Availability to be determined by the department.*

PHIL354 Philosophy of Religion 3 crs. 3 hrs. *Preq: PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 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.*

PHIL355 The Philosophy of Love and Friendship 3 crs. 3 hrs. *Preq: PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 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.

PHIL356 Philosophy of Law 3 crs. 3 hrs. *Preq: PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151.* Basic philosophical issues concerning law. *Not offered on a regular basis. Availability to be determined by the department.*

PHIL357 Philosophy of History 3 crs. 3 hrs. *Preq: PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151.* The special nature of historical knowledge and historical thinking. *Not offered on a regular basis. Availability to be determined by the department.*

PHIL358 Philosophy of Language 3 crs. 3 hrs. *Preq: PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 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.*

PHIL460 Seminar 3 crs. 3 hrs. *Preq: PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151 and WRIT 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.*

PHIL497 Independent Study 3 crs. 0 hrs. *Preq: PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151 and WRIT 301.* Philosophical inquiry on a problem determined by the student in consultation with the philosophy faculty. *Hours arranged.*

PHIL498 Independent Study 3 crs. 0 hrs. *Preq: PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151 and WRIT 301.* Philosophical inquiry on a problem determined by the student in consultation with the philosophy faculty. *Hours arranged.*

PHIL499 Independent Study 3 crs. 0 hrs. *Preq: PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151 and WRIT 301.* Philosophical inquiry on a problem determined by the student in consultation with the philosophy faculty. *Hours arranged.*

PHS

PHS 301, Pharmaceutics 3 hr/wk; 3 cr. Dosage forms and the physicochemical and biopharmaceutical principles underlying them. Drug administration routes. Solutions and the solution state, mass transport, chemical kinetics, interfacial phenomena and rheology, emulsions, suspensions and semisolids. The rationale, design and evaluation of dosage forms and other drug delivery systems. Prerequisites Chemistry 233 (Organic Chemistry II), 234 (Techniques of Organic Chemistry II), and 321 (Physical Chemistry I)

PHS 350. Pharmaceutical Manufacturing An introductory overview of the pharmaceutical industry, touching on basic manufacturing processes, facilities design, validation and regulatory affairs. Special emphasis on technical aspects of manufacturing processes in the chemical and mechanical areas. Prerequisites Pharmaceutical Science 301, Pharmaceutics

PHS401 Pharmacology Major classes of therapeutically relevant drugs and how they work at the molecular and cellular levels. Topics include: general principles, chemical mediators, drugs affecting major organ systems, chemotherapy of infectious and malignant disease, and the central nervous system. Prerequisite Chemistry 330, Structure and Mechanism in Biochemistry, or Chemistry 412, Biochemistry

PHS 480. Research In Pharmaceutical Science 6 hrs./wk; 3 cr. Prereq: Permission of the department. Individually guided laboratory investigations of advanced topics relevant to pharmaceutical research and drug discovery such as: drug delivery, synthetic organic chemistry, mechanistic enzymology, molecular modeling, assay development and high throughput screening, molecular profiling and proteomics. Topics will be chosen to reflect the needs and interests of the student.

J490. Internships In Pharmaceutical Science 1 hour of instruction every week; minimum 120 hours work experience per semester; 3 credits. Internship at the U. S. Food and Drug Administration or a pharmaceutical company

PHYS

PHYS101 College Physics I 6 crs. 9 hrs. *Preq: MATH 121.* 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. **Not open to students with credit in PHYS 105 or PHYS 107.** 3 hours lecture, 4 hours problem session, 2 hours lab. 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.

PHYS102 College Physics II 5 crs. 7 hrs. Preq: *PHYS 101 or PHYS 151*. 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. **Not open to students with credit in PHYS 106 or PHYS 108.** 3 hours lecture, 2 hours problem session, 2 hours lab. Continuation of *PHYS 101*. In addition to the lectures and problem sessions, there will be laboratory experiments dealing with these subjects.

PHYS103 Physics Laboratory I 1 crs. 2 hrs. Preq: *PHYS 105 or PHYS 107*. Introduction to instrumentation, data acquisition, analysis, and presentation. Experiments include: equilibrium, energy and momentum measurements; harmonic oscillations, elasticity, and heat.

PHYS104 Physics Laboratory II 1 crs. 2 hrs. Preq: *PHYS 103. PHYS 106 or PHYS 108*. Continuation of *Physics 103*. Experiments include: electrical circuits, optics, radioactivity. *Emphasis on use of oscilloscope.*

PHYS105 General Physics I 4 crs. 5 hrs. Preq: *Plane Trigonometry*. Classical physics primarily for students of the life sciences; motion, force, momentum and the various forms of energy, statics and dynamics of fluids, and thermal properties of matter; introduction to atomic structure. **Not open to students with credit in PHYS 107.** 3 hours lecture, 2 hours problem laboratory. *Emphasis on biologically relevant examples and problems.*

PHYS106 General Physics II 4 crs. 5 hrs. Preq: *PHYS 105 or PHYS 107*. Continuation of *Physics 105*. Topics include electrostatics and electromagnetism, AC and DC circuits, optics, radioactivity, and quantum physics. **Not open to students with credit in PHYS 108.** 3 hours lecture, 2 hours problem laboratory. *Emphasis on biologically relevant examples and problems.*

PHYS107 College Physics I 4 crs. 5 hrs. Preq: *Plane Trigonometry. MATH 121 or its equivalent*. An introduction, primarily for students of the physical sciences, 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. **Not open to students with credit in PHYS 105.** 3 hours lecture, 2 hours problem laboratory.

PHYS108 College Physics II 4 crs. 5 hrs. Preq: *PHYS 107 and MATH 121. MATH 122 or its equivalent*. Continuation of *Physics 107*. Topics include electrostatics, electric current and circuits, electromagnetism, introductory electronics, waves and acoustics, properties of light waves, optics, introductory atomic physics, and relativity. **Not open to students with credit in PHYS 106.** 3 hours lecture, 2 hours problem laboratory.

PHYS140 The Physical Universe 3 crs. 4 hrs. Preq: *Completion of the mathematics core*. 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. **Not credited towards fulfillment of the Physics Major.**

PHYS151 University Physics I 5 crs. 7 hrs. Preq: *MATH 121*. 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. **Not open to students with credit in PHYS 105 or PHYS 107.** 3 hours lecture, 2 hours problem session, 2 hours lab. In addition to the lectures and problem sessions, there will be laboratory experiments dealing with these subjects.

PHYS152 University Physics II 5 crs. 7 hrs. Preq: *PHYS 101 or PHYS 151. MATH 122 or its equivalent*. 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. **Not open to students with credit in PHYS 106 or PHYS 108.** 3 hours lecture, 2 hours problem session, 2 hours lab. Continuation of *PHYS 151 with calculus*. In addition to the lectures and problem sessions, there will be laboratory experiments dealing with these subjects.

PHYS211 Mechanics I 3 crs. 4 hrs. Preq: *PHYS 152. MATH 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.

PHYS241 Modern Physics 3 crs. 4 hrs. Preq: *PHYS 106 or PHYS 108 and MATH 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 hSProgen atom, high energy physics, modern experimental techniques.

PHYS282 Weather and Climate 3 crs. 4 hrs. Preq: 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. 2 hours lecture, 2 hours laboratory.

PHYS321 Electricity and Magnetism I 3 crs. 4 hrs. Preq: *PHYS 211. MATH 223*. 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.

PHYS341 Introduction to Quantum Mechanics for Engineers and Scientists 3 crs. 3 hrs. Preq: *PHYS 241/PHYS 321, MATH 222. PHYS 241/PHYS 321, MATH 222*. 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. **Not open to students with credit in PHYS 441.**

PHYS342 Nuclear and Particle Physics 3 crs. 3 hrs. Preq: *PHYS 241 and MATH 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.

PHYS351 Statistical Mechanics 3 crs. 4 hrs. Preq: *PHYS 211, PHYS 241 and MATH 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.

PHYS383 Modern Physics Laboratory 2 crs. 5 hrs. Preq: *PHYS 241*. Laboratory in atomic and nuclear physics; experiments may include: Millikan oil drop, e/m, Franck-Hertz experiments; nuclear particle detectors and associated instrumentation; statistical analysis of data; calibration of instruments and systems. 1 hour lecture, 4 hours laboratory.

PHYS412 Mechanics II 3 crs. 3 hrs. Preq: *PHYS 211. MATH 223*. Background for advanced topics in quantum mechanics and theoretical physics; variational principles: Lagrangian 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.*

PHYS422 Electricity and Magnetism II 3 crs. 3 hrs. Preq: *PHYS 321*. Dipole and multipole fields; solutions of potential problems; the electrostatic field in dielectric media; transient currents; applications of Maxwell's equations; the Liénard Wiechert potentials and radiation from accelerated charges. *Not offered on a regular basis. Availability to be determined by the department.*

PHYS431 Waves and Optics 3 crs. 4 hrs. Preq: *PHYS 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.

PHYS441 Quantum Mechanics and Atomic Physics 3 crs. 4 hrs. Preq: *PHYS 241. PHYS 431 and MATH 333*. 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.

PHYS455 Medical Physics Theory and Practice 3 crs. 3 hrs. *Preq: 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.

PHYS456 Clinical Internship in Medical Physics 3 crs. 1 hrs. *Preq: PHYS 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. *One full day per week.*

PHYS461 Solid State Physics 3 crs. 3 hrs. *Preq: PHYS 351. MATH 223.* 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.

PHYS491 Astrophysics I: Planetary Astronomy 3 crs. 3 hrs. *Preq: PHYS 351.* Basic physics of plasma; orbital motions; the internal structure, atmospheres, magnetism and formation of the planets; dynamics of moons and rings; solar activity. *3 hours lecture.*

PHYS492 Astrophysics II: Stellar Astronomy 3 crs. 3 hrs. *Preq: PHYS 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. *3 hours lecture.*

PHYS493 Astrophysics III: Extragalactic Astronomy. 3 hrs. lecture; 3 cr. *Preq: Physics 351* Galaxies and galaxy clusters; the extragalactic nuclei; 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.

PHYS495 Independent Study 3 crs. 6 hrs. *Preq: Permission of instructor prior to registration.* Specific subject matter will reflect the interest of the student and the judgment of the physics faculty. 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. Minimum 6 hours per week.*

PHYS496 Independent Study 3 crs. 6 hrs. *Preq: Permission of instructor prior to registration.* Specific subject matter will reflect the interest of the student and the judgment of the physics faculty. 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. Minimum 6 hours per week.*

POL

POL101 Introduction to Politics 3 crs. 3 hrs. *Preq: Survey of the basic concepts of politics through the study of contemporary issues and problems.*

POL103 Politics and Government in the United States 3 crs. 3 hrs. *Preq: 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.*

POL111 Introductory Topics in Political Science 3 crs. 3 hrs. *Preq: 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.*

POL112 Introductory Topics in Political Science 3 crs. 3 hrs. *Preq: 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.*

POL202 Comparative Politics 3 crs. 3 hrs. *Preq: ENG 125.* Introduction to theories and techniques of comparative analysis; comparative study of political processes and performance in selected industrial and developing countries.

POL211 Intermediate Topics in Political Science 3 crs. 3 hrs. *Preq: Three credits in Political Science.* Analysis of selected contemporary issues of broad local, national and international significance.

POL212 Intermediate Topics in Political Science 3 crs. 3 hrs. *Preq: Three credits in Political Science.* Analysis of selected contemporary issues of broad local, national and international significance.

POL214 Racial and Ethnic Politics 3 crs. 3 hrs. *Preq: ENG 125, POL 103 or permission of instructor.* A comparative analysis of the politics of racial and ethnic groups in American society; problems of assimilation and alienation.

POL226 The U.S. Supreme Court 3 crs. 3 hrs. *Preq: ENG 125, POL 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.

POL228 Public Administration in the Political Setting 3 crs. 3 hrs. *Preq: ENG 125, POL 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.

POL230 Correctional Administration 3 crs. 4 hrs. *Preq: POL 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. *2 hours lecture, 2 hours field work. Not offered on a regular basis. Availability to be determined by the department.*

POL231 The Electoral Process 3 crs. 3 hrs. *Preq: ENG 125, POL 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.*

POL241 Basic Factors in International Politics 3 crs. 3 hrs. *Preq: ENG 125.* Survey of the international system; an assessment of main forces involved in conflict and resolution; major components in inter-nation bargaining. *Offered at least once a year.*

POL250 Latin American Politics 3 crs. 3 hrs. *Preq: POL 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.

POL251 Puerto Rican Politics 3 crs. 3 hrs. *Preq: POL 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.*

POL252 Cuban Politics 3 crs. 3 hrs. *Preq: POL 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.*

POL256 African Politics 3 crs. 3 hrs. *Preq: POL 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.*

POL257 Asian Politics 3 crs. 3 hrs. *Preq: POL 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.*

POL258 Middle East Politics 3 crs. 3 hrs. *Req: POL 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.*

POL259 Modern Israel 3 crs. 3 hrs. *Req: POL 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.*

POL267 Classical Political Theory I: Plato to Machiavelli 3 crs. 3 hrs. *Req: POL 101.* The study of Greek, Roman, and Medieval political thought and their relationship to the societies from which they emerged.

POL268 Political Theory II: Machiavelli to Marx 3 crs. 3 hrs. *Req: POL 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.

POL269 American Political Thought 3 crs. 3 hrs. *Req: POL 101 or POL 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.*

POL271 The Politics of Education 3 crs. 3 hrs. *Req: POL 101 or permission of instructor; no prerequisite 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.*

POL273 Politics of Aging 3 crs. 3 hrs. *Req: 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.*

POL275 Introduction to Law 4 crs. 4 hrs. *Req: ENG 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.

POL285 Urban Government in the United States 3 crs. 3 hrs. *Req: ENG 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.

POL305 Selected Legal Topics 3 crs. 3 hrs. *Req: ENG 125 and three credits in Political Science.* In-depth analysis of a single legal specialty in regard to substantive law and issues.

POL306 Selected Legal Topics 3 crs. 3 hrs. *Req: ENG 125 and three credits in Political Science.* In-depth analysis of a single legal specialty in regard to substantive law and issues.

POL310 Methods of Legal Research 2 crs. 2 hrs. *Req: POL 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.*

POL311 Advanced Topics in Political Science 3 crs. 3 hrs. *Req: ENG 125 and twelve credits in Political Science.* Analysis of selected contemporary issues of broad local, national and international significance.

POL312 Advanced Topics in Political Science 3 crs. 3 hrs. *Req: ENG 125 and twelve credits in Political Science.* Analysis of selected contemporary issues of broad local, national and international significance.

POL322 The Courts and Public Policy 3 crs. 3 hrs. *Req: POL 101, and POL 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.*

POL327 Congress and the Presidency 3 crs. 3 hrs. *Req: POL 101, and POL 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.*

POL329 Public Administration: Management Processes 3 crs. 3 hrs. *Req: POL 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.

POL330 Public Policy Making 3 crs. 3 hrs. *Req: POL 101, and POL 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.*

POL332 Public Opinion and Political Behavior 3 crs. 3 hrs. *Req: POL 101, and POL 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.*

POL340 American Capitalism: Political and Social Aspects 3 crs. 3 hrs. *Req: POL 101 and POL 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.*

POL346 American Foreign Policy 3 crs. 3 hrs. *Req: POL 101, and POL 103 or permission of instructor.* American strategy in world politics; formulation, implementation, and effects of United States decision-making in the international arena.

POL352 Russian Politics 3 crs. 3 hrs. *Req: ENG 125 and POL 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.*

POL364 Protest Politics and the Novel 3 crs. 3 hrs. *Req: POL 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.*

POL366 Marxism 3 crs. 3 hrs. *Req: POL 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.*

POL367 Contemporary Political Theory 3 crs. 3 hrs. *Req: POL 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.*

POL373 Politics of the Environment 3 crs. 3 hrs. *Req: ENG 125 and POL 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.*

POL375 Seminar-Internship in a Legal Office 4 crs. 7 hrs. *Req: POL 275, POL 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. 1 hour lecture, 6 hours field work. *Not offered on a regular basis. Availability to be determined by the department.*

POL383 Seminar-Internship in New York City Government 4 crs. 0 hrs. *Req: 9 credits in the Behavioral Sciences and permission of instructor.* A weekly seminar on issues of city government, and an 8-10 hour per week internship in city agencies or with elected officials; primarily for students interested in practical aspects of city government. *Hours to be arranged. Not offered on a regular basis. Availability to be determined by the department.*

POL384 Seminar-Internship in New York City Government 4 crs. 0 hrs. *Req: 9 credits in the Behavioral Sciences and permission of instructor.* A weekly seminar on issues of city government, and an 8-10 hour per week internship in city agencies or with elected officials; primarily for students interested in practical aspects of city government. *Hours to be arranged. Not offered on a regular basis. Availability to be determined by the department.*

POL385 New York City Government and Politics 3 crs. 3 hrs. *Req: POL 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.

POL386 Comparative Urban Government and Politics 3 crs. 3 hrs. *Req: POL 202, POL 285.* Urban governmental institutions and reforms in selected industrial and developing areas and the relationship to changing environmental situations. *Not offered on a regular basis. Availability to be determined by the department. Offered at least once a year.*

POL387 Political Processes in the American States 3 crs. 3 hrs. *Req: POL 101, and POL 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.*

POL393 Seminar-Internship in New York City Government and Community Development 4 crs. 12 hrs. *Req: 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. 2 hours lecture, 8-10 hours field placement. *For students interested in city governance/community service.*

POL394 Seminar-Internship in New York City Government and Community Development 4 crs. 12 hrs. *Req: 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. 2 hours lecture, 8-10 hours field placement. *For students interested in city governance/community service.*

POL395 Seminar-Internship in Preventative Law for the Elderly 4 crs. 12 hrs. *Req: 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. 2 hours lecture, 10 hours field placement. *For students interested in law school, social work, or community service.*

POL396 Full-Time Internship in State Governance 15 crs. 1 hrs. *Req: 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. 4 hours lecture, 33 hours field placement. *Openings in each program are limited and filled on a competitive basis. All interns prepare a substantial research report under the direction of a designated York College Political Science Department mentor. Students chosen to participate reside in Albany during the internship and receive cost-of-living stipends. Certified for 7 Liberal Arts Credits.*

POL397 Full-Time Internship in National Governance 6 crs. 1 hrs. *Req: 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. 4 hours lecture, 33 hours field placement. *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.*

POL425 Seminar in Civil Liberties 3 crs. 0 hrs. *Req: 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. *Hours arranged. Not offered on a regular basis. Availability to be determined by the department.*

POL444 Seminar in Comparative Foreign Policies 3 crs. 0 hrs. *Req: POL 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. *Hours arranged. Not offered on a regular basis. Availability to be determined by the department.*

POL453 Seminar in Global Change 3 crs. 0 hrs. *Req: ENG 125 and 12 credits in Political Science inclusive of POL 202.* Global capital development and its ramifications; the multinational corporation and the national state; the processes mobilization and democratization. *Hours arranged. Not offered on a regular basis. Availability to be determined by the department.*

POL480 Seminar in Contemporary Urban Problems 3 crs. 0 hrs. *Req: 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. *Hours arranged. Not offered on a regular basis. Availability to be determined by the department.*

POL490 Directed Reading and Research 3 crs. 0 hrs. *Req: 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. *Hours arranged.*

POL491 Directed Reading and Research 3 crs. 0 hrs. *Req: 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. *Hours arranged.*

POL492 Directed Reading and Research 3 crs. 0 hrs. *Req: 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. *Hours arranged.*

POL493 Directed Reading and Research 3 crs. 0 hrs. *Preq: 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. *Hours arranged.*

PRST

PRST241 Puerto Ricans in New York 3 crs. 3 hrs. *Preq: 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.*

PRST242 Puerto Rican Society and Culture I 3 crs. 3 hrs. *Preq: 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.*

PRST243 Puerto Rican Society and Culture II 3 crs. 3 hrs. *Preq: 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.*

PSY

PSY102 Introductory Psychology 3 crs. 3 hrs. *Preq: 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.*

PSY110 The Psychology of Personal Awareness and Effectiveness 3 crs. 3 hrs. *Preq: 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. Not credited toward fulfillment of Psychology major requirements or general education requirements.*

PSY200 Intermediate Seminar 3 crs. 3 hrs. *Preq: PSY 102.* Selected topics in Psychology. *1 hour lecture, 2 hours recitation. Specific areas will be chosen and will reflect student interest.*

PSY215 Human Development I: Infancy/Childhood 3 crs. 3 hrs. *Preq: PSY 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.

PSY216 Human Development II: Adolescence/Maturity 3 crs. 3 hrs. *Preq: PSY 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.

PSY217 Psychology for Parents 3 crs. 3 hrs. *Preq: PSY 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.

PSY221 Psychology of Learning 3 crs. 4 hrs. *Preq: PSY 215.* In-depth consideration of basic learning processes; Pavlovian conditioning, operant conditioning, the nature of reinforcement, discrimination, generalization, memory processes, motivation and human learning including verbal learning; related to current theory and application. *2 hours lecture, 2 hours laboratory. Students will conduct weekly supervised laboratory exercises.*

PSY225 Psychology of Learning Disabilities 3 crs. 3 hrs. *Preq: PSY 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.*

PSY236 The Psychology of Women 3 crs. 3 hrs. *Preq: Psychology 102* The empirical and theoretical formulations regarding the psychology of the human female, including sexuality, pregnancy, psycho-social functioning, achievement, life styles and the development of gender differences. Offered alternate Spring semesters.

PSY250 Practicum in Interviewing 4 crs. 5 hrs. *Preq: PSY 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. *2 hours lecture, 1 hour recitation, 2 hours laboratory.*

PSY251 Organizational Behavior 3 crs. 3 hrs. *Preq: PSY 102* This course will examine the interactions between individuals, groups and organizations. Key to this examination will be the use of both traditional perspectives from Organizational Psychology (i.e. an academic/behavioral-science orientation) and emerging trends in the field of Organizational Psychology (i.e. an experiential approach). A significant proportion of class time will be spent in experiential activities regarding organization behavior.

PSY253 Industrial/Organizational Psychology 3 crs. 3 hrs. *Preq: PSY 102.* This course will examine the field of Industrial/Organizational psychology, which is the application of the methods, research findings and principles of psychology to people at work. In this course we will objectively examine the fit between the demands and resources of both people and their work environment. Specifically, we will examine the factors which affect the fit between people and the work environment, the results of good fit and bad fit, and attempts to modify both people and the work environment to improve fit. *Offered Fall semesters.*

PSY254 Conflict Resolution and Management 3 crs. 3 hrs. *Preq: PSY 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.*

PSY255 Psychology of Advertising and Marketing Communications 3 crs. 3 hrs. *Preq: PSY 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.*

PSY265 Introduction to Communication Disorders 4 crs. 4 hrs. *Preq: PSY 102.* A survey of the diagnosis and treatment of speech, language and hearing disorders resulting from physical and sensory impairments in children and adults.

PSY280 Psychology of Geriatrics 3 crs. 3 hrs. *Preq: PSY 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.*

PSY281 Psychological Consequences of Chronic Disability 4 crs. 4 hrs. *Preq: PSY 215 and PSY 216.* 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. *3 hours lecture, 1 hour laboratory.*

PSY282 Psychology of Vocational Rehabilitation 3 crs. 3 hrs. *Preq: PSY 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.*

PSY283 The Psychology of Death and Dying 3 crs. 3 hrs. *Preq: PSY 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.

PSY289 Psychology of Addiction 3 crs. 3 hrs. *Preq: PSY 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.

PSY290 Field Work 1 crs. 1 hrs. *Preq: PSY 102 and permission of the field work supervisor.* Supervised experience in the field under the guidance of faculty advisor in Psychology. *Hours arranged. PSY 290 to PSY 295 may be taken concurrently.*

PSY291 Field Work 1 crs. 1 hrs. *Preq: PSY 102 and permission of the field work supervisor.* Supervised experience in the field under the guidance of faculty advisor in Psychology. *Hours arranged. PSY 290 to PSY 295 may be taken concurrently.*

PSY292 Field Work 1 crs. 1 hrs. *Preq: PSY 102 and permission of the field work supervisor.* Supervised experience in the field under the guidance of faculty advisor in Psychology. *Hours arranged. PSY 290 to PSY 295 may be taken concurrently.*

PSY293 Field Work 1 crs. 1 hrs. *Preq: PSY 102 and permission of the field work supervisor.* Supervised experience in the field under the guidance of faculty advisor in Psychology. *Hours arranged. PSY 290 to PSY 295 may be taken concurrently.*

PSY294 Field Work 1 crs. 1 hrs. *Preq: PSY 102 and permission of the field work supervisor.* Supervised experience in the field under the guidance of faculty advisor in Psychology. *Hours arranged. PSY 290 to PSY 295 may be taken concurrently.*

PSY295 Field Work 1 crs. 1 hrs. *Preq: PSY 102 and permission of the field work supervisor.* Supervised experience in the field under the guidance of faculty advisor in Psychology. *Hours arranged. PSY 290 to PSY 295 may be taken concurrently.*

PSY300 Interpersonal Skills for Community Service 2 crs. 1 hrs. *Preq: 6 credits in Psychology; ENG 125. PSY 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. *1 hour lecture, 2 hours laboratory.*

PSY301 Practicum in Community Service 2 crs. 4 hrs. *Preq: 6 credits in Psychology; ENG 125. PSY 300.* Application of acquired skills in interpersonal and psychosocial communication in an applied setting under the supervision of a faculty advisor in Psychology. *4 hours field work.*

PSY302 Practicum in Community Service 2 crs. 4 hrs. *Preq: PSY 301.* Application of acquired skills in interpersonal and psychosocial communication in an applied setting under the supervision of a faculty advisor in Psychology. *4 hours field work.*

PSY303 Practicum in Community Service 2 crs. 4 hrs. *Preq: PSY 301.* Application of acquired skills in interpersonal and psychosocial communication in an applied setting under the supervision of a faculty advisor in Psychology. *4 hours field work.*

PSY311 Psychology of the Religious Experience 3 crs. 3 hrs. *Preq: 6 credits in Psychology; ENG 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.

PSY313 Laboratory in Sensation and Perception 3 crs. 4 hrs. *Preq: 6 credits in Psychology; ENG 125.* Consideration of basic sensory and perceptual processes. Extensive experience with computerized and hands-on laboratory experiments. Students will conduct individual research projects. **Not open to students with credit in PSY 212 or PSY 213.** *2 hours lecture, 2 hours laboratory. Field trips may be required.*

PSY319 Human Cognition Laboratory 3 crs. 4 hrs. *Preq: 6 credits in Psychology; ENG 125.* In-depth examination of human problem solving, concept formation, creativity, intelligence, perception, attention, memory and mnemonics, language, knowledge representation, and artificial intelligence. *2 hours lecture, 2 hours laboratory.*

PSY321 Psychology of Learning Laboratory 3 crs. 4 hrs. *Preq: 6 credits in Psychology; ENG 125.* In-depth consideration of basic learning processes; Pavlovian conditioning, operant conditioning, the nature of reinforcement, discrimination, generalization, memory processes, motivation and human learning including verbal learning; related to current theory and application. **Not open to students with credit in PSY 221.** *Students will conduct weekly supervised laboratory exercises. 2 lecture hours, 2 laboratory hours.*

PSY326 Statistical Methods in Psychology 3 crs. 4 hrs. *Preq: 6 credits in Psychology; ENG 125, MATH 111 or MATH 121.* Descriptive and inferential statistics in psychological research. **Not open to students with credit in PSY 205 or PSY 206.** *2 hours lecture, 2 hours laboratory.*

PSY327 Advanced Statistical Methods 3 crs. 4 hrs. *Preq: PSY 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. *2 hours lecture, 2 hours laboratory.*

PSY330 Foundations of Research in Psychology 3 crs. 3 hrs. *Preq: 6 credits in Psychology. WRIT 301, WRIT 302 or WRIT 303 this is a writing intensive course. WRIT 301, WRIT 302 or WRIT 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.

PSY332 Social Psychology 3 crs. 3 hrs. *Preq: 6 credits in Psychology; ENG 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.*

PSY333 Black Psychology 3 crs. 3 hrs. *Preq: 6 credits in Psychology; ENG 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.

PSY334 Personality 3 crs. 3 hrs. *Preq: 6 credits in Psychology; ENG 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.

PSY335 Exceptional Child 3 crs. 3 hrs. *Preq: PSY 215 and ENG 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. *Not offered on a regular basis. Availability to be determined by the department.*

PSY336 The Psychology of Women 3 crs. 3 hrs. *Preq: PSY 215 and Junior status.* 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.*

PSY337 Child Abuse and Neglect 1 crs. 3 hrs. *Preq: PSY 215 and ENG 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. *3 hours for 5 weeks. Not offered on a regular basis. Availability to be determined by the department.*

PSY338 Abnormal Psychology 3 crs. 3 hrs. *Preq:* 6 credits in Psychology; ENG 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.

PSY340 Clinical Health Psychology 3 crs. 3 hrs. *Preq:* 6 credits in Psychology; ENG 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.

PSY342 Practicum in Group Dynamics 4 crs. 5 hrs. *Preq:* 6 credits in Psychology; ENG 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. 1 hour lecture, 1 hour recitation, 3 hours laboratory. *Field trips may be required.*

PSY350 Management and Organizational Behavior 3 crs. 3 hrs. *Preq:* 6 credits in Psychology; ENG 125. The effects of managerial practices on individual fulfillment and organizational effectiveness, systems, contingency, and dynamic models.

PSY351 Leadership, Motivation and Power 3 crs. 3 hrs. *Preq:* 6 credits in Psychology; ENG 125. 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.*

PSY352 Psychological Assessment 3 crs. 3 hrs. *Preq:* PSY 326, ENG 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.

PSY353 Approaches to Psychotherapy 3 crs. 3 hrs. *Preq:* 6 credits in Psychology; ENG 125. Cognitive, behavioral, humanistic, psychopharmacological, and psychodynamic approaches to human behavior change.

PSY355 Managerial and Personnel Psychology 3 crs. 3 hrs. *Preq:* PSY 215. Selection, placement, and training of personnel; research, theory, and practice involved in the study and measurement of attitudes, morale, and performance.

PSY357 Conflict Resolution and Management 3 crs. 3 hrs. *Preq:* PSY 332. 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.*

PSY358 Psychology of Advertising and Marketing Communications 3 crs. 3 hrs. *Preq:* PSY 215. 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.*

PSY362 Physiological Psychology 3 crs. 3 hrs. *Preq:* 6 credits in Psychology; ENG 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.

PSY370 Psychology of Consciousness 3 crs. 3 hrs. *Preq:* 6 credits in Psychology; ENG 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.

PSY381 Psychological Consequences of Chronic Disability 3 crs. 4 hrs. *Preq:* PSY102, ENG 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. 3 lecture hours, 1 laboratory hour.

PSY383 Behavior Modification 3 crs. 3 hrs. *Preq:* 6 credits in Psychology; ENG 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.*

PSY385 Practicum in Behavior Modification 4 crs. 7 hrs. *Preq:* PSY 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. 6 hours supervised field work, 1 hour recitation. *Not offered on a regular basis. Availability to be determined by the department.*

PSY387 Biofeedback 3 crs. 3 hrs. *Preq:* 6 credits in Psychology; ENG 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.

PSY401 History of Psychology 3 crs. 3 hrs. *Preq:* 9 credits in Psychology; WRIT 301 or WRIT 302 or WRIT 303. Development of contemporary psychology as a science including such systemic approaches as structuralism, functionalism, behaviorism, Gestalt psychology, psychoanalysis, and cognitive and evolutionary psychology.

PSY430 Experimental Methods 4 crs. 6 hrs. *Preq:* PSY 221, PSY 326, and *Senior status.* 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. **Not open to students with credit in PSY 304, PSY 305, and PSY 306.** 2 hours lecture, 4 hours laboratory.

PSY454 Seminar in Organizational Psychology 3 crs. 3 hrs. *Preq:* 9 credits in Psychology; WRIT 301 or WRIT 302 or WRIT 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. *Not offered on a regular basis. Availability to be determined by the department. Field trips may be required.*

PSY480 Advanced Seminar in Psychology 3 crs. 3 hrs. *Preq:* 9 credits in Psychology; WRIT 301 or WRIT 302 or WRIT 303. Selected advanced topics in psychology.

PSY481 Advanced Seminar in Psychology 3 crs. 3 hrs. *Preq:* 9 credits in Psychology; WRIT 301 or WRIT 302 or WRIT 303. Selected advanced topics in psychology.

PSY482 Advanced Seminar in Psychology 3 crs. 3 hrs. *Preq:* 9 credits in Psychology; WRIT 301 or WRIT 302 or WRIT 303. Selected advanced topics in psychology.

PSY490 Independent Study and Experimental Research 3 crs. 0 hrs. *Preq:* 9 credits in Psychology; WRIT 301 or WRIT 302 or WRIT 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. *Hours arranged. Field trips may be required.*

PSY491 Independent Study and Experimental Research 3 crs. 0 hrs. *Preq:* 9 credits in Psychology; WRIT 301 or WRIT 302 or WRIT 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. *Hours arranged. Field trips may be required.*

PSY492 Independent Study and Experimental Research 3 crs. 0 hrs. *Preq:* 9 credits in Psychology; WRIT 301 or WRIT 302 or WRIT 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. *Hours arranged. Field trips may be required.*

READ

READ102 Intensive Reading of English as a Second Language I 1 crs. 4 hrs. *Preq: By placement only.* Intensive reading designed for non-native English speakers with some experience reading English. Using American culture and vocabulary as a vehicle, it is intended to introduce decoding, vocabulary, comprehension, and study skills in order to prepare students for eventually reading on a college level. **Not open to students with credit in READ 100 or READ 101.**

READ103 Intensive Reading of English as a Second Language II 1 crs. 4 hrs. *Preq: READ 102 or by placement.* Extensive reading designed to prepare non-native English speakers for academic study in a college setting. An intermediate level English as a Second Language reading course that stresses vocabulary development, comprehension and reading in the content areas. **Not open to students with credit in READ 100 or READ 101.**

READ110 Development of College Reading I 1 crs. 4 hrs. *Preq: READ 103 or by placement.* Development of literal and interpretive comprehension skills for college texts; vocabulary development through context. Emphasis is given to strengthening the students ability to provide simple and complex analyses of a broad spectrum of fiction and non-fiction work that reflects concrete and abstract ideas. **Not open to students with credit in READ 100.**

READ111 Development of College Reading II 1 crs. 4 hrs. *Preq: READ 100, READ 110 or by placement.* Development of critical and creative reading comprehension skills appropriate for college reading tasks. Emphasis is given to strengthening the students ability to translate, analyze, synthesize and evaluate a broad spectrum of fiction and non-fiction work including primary and secondary source material. **Not open to students with credit in READ 101.**

RUS

RUS101 Elementary Russian I 4 crs. 4 hrs. *Preq: Basic principles of a beginner's course; designed to give the foundations of language.*

RUS102 Elementary Russian II 4 crs. 4 hrs. *Preq: RUS 101.* Continuation of the beginner's course; more complex grammatical structures, integrated readings and further practice in conversation.

SEEK

SEEK102. Psychological, Social and Academic Development. 2 hrs.; 2 crs. *Preq: Entering SEEK Freshmen.* 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.

SEEK103. Developing Self Awareness for Academic Success. 2 hrs.; 2 crs. *Preq: SEEK Counseling Seminar 102.* Open only to students in the SEEK Program. This course incorporates an interdisciplinary perspective which will provide students the opportunity to develop deeper insight into personal and social issues that impact their academic success. The topics covered include personal development, interpersonal relationships, and career choices as they pertain to students' roles and responsibilities.

SEEK110. Developing Coping Strategies for Academic Success. 2 hrs.; 1 cr. *Preq: Open only to students in the SEEK Program.* 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.

SCIEN

SCIEN570 Advanced Methods in High School Science Instruction 4 crs. 7 hrs. *Preq: 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. 2 hours lecture, 5 hours laboratory. *The subject area of concentration will be in one of the following: biology; chemistry; earth science; or physics.*

SCIEN571 Field Activities in Science Education 2 crs. 6 hrs. *Preq: SCIEN 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. 6 hours field work.

SCIEN572 Survey of Physical Science Topics for Elementary Teachers 3 crs. 4 hrs. *Preq: 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. 2 hours lecture, 2 hours laboratory. *This course will be offered on a Pass/Fail basis.*

SCIEN573 Practicum in Physical Science for Elementary Teachers 3 crs. 4 hrs. *Preq: SCIEN 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. 2 hours lecture, 2 hours laboratory. *This course will be offered on Pass/Fail basis.*

SCWK

SCWK101 Introduction to Social Work 3 crs. 3 hrs. *Preq: 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.*

SCWK203 Social Welfare Programs and Policies 3 crs. 3 hrs. *Preq: SCWK 101, POL 103, SOC 101 or ENG 125. ENG 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.

SCWK293 Social Work Practicum 3 crs. 8 hrs. *Preq: SCWK 101; PSY 215, SCWK 203, ENG 125. PSY 215, SCWK 203, ENG 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. 2 hours lecture, 6 hours field work. *Field placement is for six daytime hours per week.*

SCWK300 Generalist Social Work Practice I and Skills Laboratory 3 crs. 4 hrs. *Preq: SCWK 203, SCWK 293; AC 101, ANTH 101, PSY 216. AC 101, ANTH 101, PSY 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. 2 hours lecture, 2 hours laboratory.

SCWK330 Social Welfare Problems and Issues 3 crs. 3 hrs. *Preq: 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.*

SCWK350 Social Research I 3 crs. 4 hrs. *Preq: SCWK 300. SCWK 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. 2 hours recitation, 2 hours laboratory.

SCWK360 Human Behavior and the Social Environment 3 crs. 3 hrs. *Preq:* Admission into the Social Work Program, SCWK 300.; Two Group II courses and SCWK 350. Two Group II courses and SCWK 350. Integration of social science knowledge with the generalist model of practice to support intervention. Emphasis on human diversity and oppression.

SCWK370 Generalist Social Work Practice II 3 crs. 3 hrs. *Preq:* SCWK 350, SCWK 360, WRIT 303. SCWK 350, SCWK 360, WRIT 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.

SCWK400 Generalist Social Work Practice III 3 crs. 3 hrs. *Preq:* SCWK 350, SCWK 360, SCWK 370. SCWK 350, SCWK 360, SCWK 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. *This is a writing intensive course.*

SCWK410 Field Placement and Seminar I 6 crs. 16 hrs. *Preq:* Acceptance into Field Placement, SCWK 360, SCWK 370.; SCWK 400. SCWK 400. Supervised field experience. On site visits by Social Work faculty. Integration of field and classroom learning in a weekly on-campus seminar. 2 hours lecture, 14 hours field work. Permission required for repeating the course. 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.

SCWK470 Social Research Methods II 3 crs. 3 hrs. *Preq:* SCWK 350.; SCWK 400, SCWK 410. SCWK 400, SCWK 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.

SCWK480 Social Welfare Policy 3 crs. 3 hrs. *Preq:* SCWK 410, SCWK 470. SCWK 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 analytic techniques needed for problem evaluation and policy change. **Not open to students with credit in Social Work 401.** The Hybrid course will be conducted using the Blackboard course management system. Students must have an email account and access to the internet. Students must register for a CUNY portal account, if they do not already have one. There will be a minimum of twelve (12) in-class hours held on pre selected dates scheduled throughout the semester. All other class interaction will take place on-line using Blackboard. The Blackboard features that will be used are: Announcements, Assignments, Course Calendar, Course Documents, Course Information, Discussion Board, Digital Drop Box, Email, External Links, Gradedbook, and Tasks. All course documents and assignments are available in the appropriate sections of Blackboard (e.g. Course Documents and Assignments) as text or as attachments.

SCWK492 Field Placement and Seminar II 6 crs. 16 hrs. *Preq:* SCWK 410, SCWK 470 & SCWK 480. SCWK 470 & SCWK 480. Continuation of supervised field experience. On site visits by Social Work faculty. Integration of field and classroom learning in a weekly, on-campus seminar. 2 hours lecture, 14 hours field work. In the Spring semester, this course begins the first week of January. Permission required for repeating the course. 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.

SD

SD101 Developing Individual Life Styles 1 crs. 1 hrs. *Preq:* Consideration of intellectual, emotional, social and vocational aspects of development, with an emphasis on one's personal values. **Open to Freshman only.** Pass/Fail.

SD102 Practicum in Learning Techniques and Problem-Solving 1 crs. 3 hrs. *Preq:* Students must obtain permission from their department chair in order to register. Supervised experience in the application of various learning strategies and techniques. **Not credited toward fulfillment of Teacher Education Program Requirements or N.Y. State Education Certification Requirements.** 3 hours laboratory. Pass/No Credit. Offered by every department.

SD103 Practicum in Learning Techniques and Problem-Solving 1 crs. 3 hrs. *Preq:* Students must obtain permission from their department chair in order to register. Supervised experience in the application of various learning strategies and techniques. **Not credited toward fulfillment of Teacher Education Program Requirements or N.Y. State Education Certification Requirements.** 3 hours laboratory. Pass/No Credit. Offered by every department.

SD104 Practicum in Learning Techniques and Problem-Solving 1 crs. 3 hrs. *Preq:* Students must obtain permission from their department chair in order to register. Supervised experience in the application of various learning strategies and techniques. **Not credited toward fulfillment of Teacher Education Program Requirements or N.Y. State Education Certification Requirements.** 3 hours laboratory. Pass/No Credit. Offered by every department.

SD105 Practicum in Learning Techniques and Problem-Solving 1 crs. 3 hrs. *Preq:* Students must obtain permission from their department chair in order to register. Supervised experience in the application of various learning strategies and techniques. **Not credited toward fulfillment of Teacher Education Program Requirements or N.Y. State Education Certification Requirements.** 3 hours laboratory. Pass/No Credit. Offered by every department.

SD110 Developing Success in College 2 crs. 2 hrs. *Preq:* Intensive exploration of study skills techniques, career and vocational development, values formation, learning processes and all areas pertinent to the college experience. **Open to Freshmen only. Not open to students with credit in SD 101.**

SD120 Individual Career Development 2 crs. 2 hrs. *Preq:* 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. **Not open to students with credit in COOP 101, SD 201 or SD 301.**

SOC

SOC101 Introductory Sociology 3 crs. 3 hrs. *Preq:* 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.

SOC201 Sociological Analysis 3 crs. 3 hrs. *Preq:* SOC 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.*

SOC202 Major Ideas and Issues in Education 3 crs. 3 hrs. *Preq:* ENG 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 framework. Required for all teacher education students.*

SOC220 Social Research I 3 crs. 4 hrs. *Preq:* SOC 101. 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. **Not open to students with credit in ECON 220, PSY 205, PSY 206, SCWK 220 or SCWK 350.** 2 hours recitation, 2 hours laboratory.

SOC226 Survey Research I: Planning and Design of Research 4 crs. 6 hrs. *Preq:* Sophomore status, SOC 220, or permission of instructor. 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. **Not open to students with credit in SOC 326.** 2 hours lecture, 4 hours laboratory. Field work required. Not offered on a regular basis. Availability to be determined by the department.

SOC227 Survey Research II: Data Collection, Processing and Analysis 4 crs. 6 hrs. *Preq: SOC 226 or permission of instructor.* 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. 2 hours lecture, 4 hours laboratory. Field work required. Not offered on a regular basis. Availability to be determined by the department.

SOC231 Sociology of Small Groups 3 crs. 4 hrs. *Preq: SOC 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.

SOC235 Ethnicity 3 crs. 3 hrs. *Preq: SOC 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. Not offered on a regular basis. Availability to be determined by the department.

SOC236 Sociology of Aging 3 crs. 3 hrs. *Preq: SOC 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.

SOC238 Industrial Sociology 3 crs. 3 hrs. *Preq: SOC 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.

SOC239 Sociology of Work 3 crs. 3 hrs. *Preq: SOC 101* Occupational institutions, recruitment, training, and careers; relation between work and other social roles; changes in the composition of the labor force.

SOC243 Sociology of Leisure 3 crs. 3 hrs. *Preq: SOC 101.* An analysis of the origins and uses of time and of its relationship to other institutions. **Not open to students with credit in SOC 343.** Not offered on a regular basis. Availability to be determined by the department.

SOC245 Medical Sociology 3 crs. 3 hrs. *Preq: SOC 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.

SOC247 Family and Kinship 3 crs. 3 hrs. *Preq: SOC 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.

SOC252 Social Problems 3 crs. 3 hrs. *Preq: SOC 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. Not offered on a regular basis. Availability to be determined by the department.

SOC255 Deviance and Social Control 3 crs. 3 hrs. *Preq: SOC 101.* Various forms of social deviance and the processes established for their control; particular emphasis on criminology. **Not open to students with credit in SOC 254, formerly Criminology.** Not offered on a regular basis. Availability to be determined by the department.

SOC271 Sociology of Education 3 crs. 3 hrs. *Preq: SOC 101; no prerequisite 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. Not offered on a regular basis. Availability to be determined by the department.

SOC289 Urban Sociology 3 crs. 3 hrs. *Preq: SOC 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.

SOC290 Field Work and Research 3 crs. 0 hrs. *Preq: 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 (SOC 290, SOC 291, SOC 292, SOC 390, SOC 391, SOC 392) credited. Hours arranged. Not offered on a regular basis. Availability to be determined by the department.

SOC291 Field Work and Research 2 crs. 0 hrs. *Preq: 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. Hours arranged. Not offered on a regular basis. Availability to be determined by the department.

SOC292 Field Work and Research 1 crs. 0 hrs. *Preq: 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. Hours arranged. Not offered on a regular basis. Availability to be determined by the department.

SOC312 Sociological Theory 3 crs. 3 hrs. *Preq: SOC 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.

SOC314 Social Structure and Personality 3 crs. 3 hrs. *Preq: SOC 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.

SOC321 Social Research Methods II 3 crs. 3 hrs. *Preq: Junior status and 12 credits in Sociology, including SOC 220.* 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. **Not open to students with credit in SCWK 321 or SCWK 470.**

SOC325 Field Research Practicum 4 crs. 6 hrs. *Preq: 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.

SOC333 Social Stratification 3 crs. 3 hrs. *Preq: SOC 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.

SOC334 Complex Organizations 3 crs. 3 hrs. *Preq: SOC 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.

SOC341 Political Sociology 3 crs. 3 hrs. *Preq: SOC 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.

SOC342 Sociology of Higher Education 3 crs. 3 hrs. *Preq: SOC 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. Not offered on a regular basis. Availability to be determined by the department.

SOC344 Sociology of Religion 3 crs. 3 hrs. *Preq: SOC 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.

SOC346 Selected Topics in Social Institutions 3 crs. 3 hrs. *Preq: SOC 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.*

SOC347 Selected Topics in Social Institutions 3 crs. 3 hrs. *Preq: SOC 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.*

SOC348 Selected Topics in Social Institutions 3 crs. 3 hrs. *Preq: SOC 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.*

SOC354 Criminal Justice Administration 3 crs. 3 hrs. *Preq: SOC 101 and SOC 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.*

SOC364 Social Change 3 crs. 3 hrs. *Preq: SOC 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.

SOC365 Collective Behavior 3 crs. 3 hrs. *Preq: SOC 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.*

SOC366 Sociology of Modernization and Development 3 crs. 3 hrs. *Preq: SOC 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.

SOC381 Population Problems 3 crs. 3 hrs. *Preq: SOC 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.*

SOC390 Field Work and Research 3 crs. 0 hrs. *Preq: Junior status, 9 credits in Sociology including SOC 101 and permission of instructor.* Supervised experience in the field or independent research under the guidance of an instructor in Sociology. **Not more than 6 credits from the Field Work and Research series (SOC 290, SOC 291, SOC 292, SOC 390, SOC 391, SOC 392) credited toward Sociology major requirements.** Hours arranged. *Not offered on a regular basis. Availability to be determined by the department.*

SOC391 Field Work and Research 2 crs. 0 hrs. *Preq: Junior status, 9 credits in Sociology including SOC 101 and permission of instructor.* Supervised experience in the field or independent research under the guidance of an instructor in Sociology. **Not more than 6 credits from the Field Work and Research series (SOC 290, SOC 291, SOC 292, SOC 390, SOC 391, SOC 392) credited toward Sociology major requirements.** Hours arranged. *Not offered on a regular basis. Availability to be determined by the department.*

SOC392 Field Work and Research 1 crs. 0 hrs. *Preq: Junior status, 9 credits in Sociology including SOC 101 and permission of instructor.* Supervised experience in the field or independent research under the guidance of an instructor in Sociology. **Not more than 6 credits from the Field Work and Research series (SOC 290, SOC 291, SOC 292, SOC 390, SOC 391, SOC 392) credited toward Sociology major requirements.** Hours arranged. *Not offered on a regular basis. Availability to be determined by the department.*

SOC401 Seminar: Advanced Topics in Sociology 3 crs. 0 hrs. *Preq: 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. Hours arranged. 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.*

SOC402 Seminar: Advanced Topics in Sociology 3 crs. 0 hrs. *Preq: 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. Hours arranged. 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.*

SOC403 Seminar: Advanced Topics in Sociology 3 crs. 0 hrs. *Preq: 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. Hours arranged. 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.*

SOC411 Sociology of Knowledge 3 crs. 0 hrs. *Preq: SOC 101, SOC 312, SOC 344.* Relationship between social structures and scientific, legal, religious and aesthetic forms as developed in the works of Durkheim, Marx, Weber, and Mannheim. Hours arranged. *Not offered on a regular basis. Availability to be determined by the department.*

SOC412 Seminar: Contemporary Issues in Sociological Theory 3 crs. 3 hrs. *Preq: Senior status and SOC 312.* Twentieth-century sociological theory with reference to contemporary issues as radical social theory and phenomenological sociology. Hours arranged. *Not offered on a regular basis. Availability to be determined by the department.*

SOC490 Independent Reading in Sociology 3 crs. 0 hrs. *Preq: Junior status and permission of instructor.* Supervised individual readings on sociological topics not covered by other courses. Hours arranged. *Not offered on a regular basis. Availability to be determined by the department.*

SPAN

SPAN101 Elementary Spanish I 4 crs. 4 hrs. *Preq: Placement by department.* Basic principles of a beginner's course; designed to give the foundation for understanding, speaking, reading and writing the language; study of simple syntax. **Not open to students with credit in SPAN 113.**

SPAN102 Elementary Spanish II 4 crs. 4 hrs. *Preq: SPAN 101 or placement by department.* Continuation of the beginner's course; more complex grammatical structures; integrated reading and further practice in conversation. **Not open to students with credit in SPAN 114.**

SPAN103 Essential Spanish for the Bilingual Student 3 crs. 3 hrs. *Preq: Placement by department.* The essentials of orthography, accentuation and syntax for students with oral proficiency in Spanish who have not studied syntax. **Not open to students with credit in SPAN 101 or SPAN 102.**

SPAN104 Rapid Review of Basic Spanish 3 crs. 3 hrs. *Preq: 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.

SPAN105 Intermediate Spanish I 3 crs. 3 hrs. *Preq: SPAN 102 or SPAN 103 or SPAN 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 students needs. Placement in the proper section is determined by the discipline.

SPAN106 Intermediate Spanish Composition 3 crs. 3 hrs. *Preq: SPAN 105 or placement by department.* Development of writing proficiency on the intermediate level using revision and editing techniques, augmented by selected contemporary literary texts.

SPAN107 Intermediate Spanish for Special Purposes 3 crs. 3 hrs. *Preq: SPAN 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.

SPAN180 Intermediate Spanish in the Disciplines I 1 crs. 1 hrs. *Preq: SPAN 107 or placement by department.* 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. **Not open to students with Spanish credit above the 100 level.**

SPAN181 Intermediate Spanish in the Disciplines II 1 crs. 1 hrs. *Preq: SPAN 180.* 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. **Not open to students with Spanish credit above the 100 level.**

SPAN182 Intermediate Spanish in the Disciplines III 1 crs. 1 hrs. *Preq: SPAN 181.* 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. **Not open to students with Spanish credit above the 100 level.**

SPAN200 Introduction to Literary Theory and Analysis 3 crs. 3 hrs. *Preq: 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.

SPAN201 Hispanic-American Literature from its Origin through Modernismo 3 crs. 3 hrs. *Preq: SPAN 200.* Representative authors of Hispanic-American countries up to the 20th century.

SPAN202 Hispanic-American Literature after Modernismo 3 crs. 3 hrs. *Preq: SPAN 200.* Hispanic-American authors after Modernismo.

SPAN203 Hispanic-American Short Story 3 crs. 3 hrs. *Preq: SPAN 200.* Critical analysis of the modern short story in Hispanic America.

SPAN208 Advanced Grammar 3 crs. 3 hrs. *Preq: SPAN 106 and SPAN 107.* A systematic review of grammar and a study of syntactical peculiarities of modern Spanish.

SPAN209 Composition and Style 3 crs. 3 hrs. *Preq: SPAN 106 and SPAN 107.* Composition based on the stylistic analysis of readings of representative modern authors.

SPAN210 Spanish Linguistics 3 crs. 3 hrs. *Preq: SPAN 106 and SPAN 107.* 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.*

SPAN221 Spanish Literature to 1700 3 crs. 3 hrs. *Preq: SPAN 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.

SPAN222 Spanish Literature 1700-Present 3 crs. 3 hrs. *Preq: SPAN 200.* Survey of major works of Peninsular Spanish Literature from 1700 to the present.

SPAN230 Spanish Literature for Children and Adolescents 3 crs. 3 hrs. *Preq: SPAN 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.*

SPAN240 Translation I 3 crs. 3 hrs. *Preq: SPAN 106 and SPAN 107 and ENG 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. *Not offered on a regular basis. Availability to be determined by the department.*

SPAN241 Translation II 3 crs. 3 hrs. *Preq: SPAN 241 and ENG 125.* Continuation of Spanish 240. More extensive translation of commercial, journalistic, literary and scientific texts.

SPAN242 Commercial Spanish 3 crs. 3 hrs. *Preq: SPAN 106 or SPAN 107 and ENG 125.* 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.*

SPAN 243. (Lib Arts) SPAN for the Health Professions. 3 hrs. ; 3 cr. *Prereq: SPAN 106 or 107; English 125* This course develops a student's SPAN language proficiency as necessary to function bilingually in health professions. Grammar and vocabulary will be presented in the context of the communicative needs of the health professional. Communication will be stressed in all five proficiency areas: listening and speaking, reading and writing, and culture. This course will be taught entirely in the target language.

SPAN 244. (Lib Arts) SPAN for the Social Worker. 3hrs. ; 3cr. *Prereq: SPAN 106 or 107; English 125* This course develops a student's SPAN language proficiency as necessary to function bilingually in the field of Social Work. Grammar and vocabulary will be presented in the context of the communicative needs of the Social Work Professional. Communication will be stressed in all five proficiency areas: listening and speaking, reading and writing, and culture. This course will be taught entirely in the target language.

SPAN 245. (Lib Arts) SPAN for the Tourism and Travel Industries. 3hrs. ; 3cr. *Prereq: SPAN 106 or 107; English 125* This course develops a student's SPAN language proficiency as necessary to function bilingually in the field of the Tourism and Travel Industries. Grammar and vocabulary will be presented in the context of the communicative needs of the travel professional. Communication will be stressed in all five proficiency areas: listening and speaking, reading and writing, and culture. This course will be taught entirely in the target language.

SPAN280 Advanced Spanish in the Disciplines I 1 crs. 1 hrs. *Preq: 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.

SPAN281 Advanced Spanish in the Disciplines II 1 crs. 1 hrs. *Preq: SPAN 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.

SPAN282 Advanced Spanish in the Disciplines III 1 crs. 1 hrs. *Preq: SPAN 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.

SPAN290 Special Topics 3 crs. 3 hrs. *Preq: SPAN 200.* A selected topic in Spanish studies. *The topic varies with each offering.*

SPAN300 Women Writers from Latin America 3 crs. 3 hrs. *Preq: SPAN 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 theatre, novel, poetry, and essay from the colonial era to present times, including Nobel Prize winner Rigoberta Menchú's chilling biography, I. Rigoberta Menchú.

SPAN301 Romanticismo, Indianismo, Naturalismo, Positivismo and Modernismo in the Spanish Speaking Caribbean 3 crs. 3 hrs. *Preq: SPAN 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.

SPAN302 The Literature of the Spanish Speaking Caribbean after Modernismo 3 crs. 3 hrs. *Preq: SPAN 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.

SPAN303 Dominican Literature 3 crs. 3 hrs. *Preq: SPAN 200.* Dominican literature from its beginning to our day. Works by such major figures as Perez, Ortea, Moscoso, Puello, Marrero Aristy, Mir, Cartegena Portalatin, del Cabral, Mejia, Henriquez Urena, Imbert Brugal and Sencion will be studied.

SPAN304 Puerto Rican Literature 3 crs. 3 hrs. *Preq: SPAN 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.

SPAN305 Contemporary Theater 3 crs. 3 hrs. *Preq: SPAN 200.* Analysis of contemporary Spanish and Hispanic-American plays. Students encouraged to participate in the dramatization and presentation of representative plays.

SPAN306 Indigenismo in Twentieth-Century Hispanic-American Fiction 3 crs. 3 hrs. *Preq: SPAN 200.* Exploitation of the Indian in the contemporary social novel and short story. *Not offered on a regular basis. Availability to be determined by the department.*

SPAN 307 Please contact the department chair for more information on the availability of this course

SPAN308 Approaches to Spanish Language Acquisition 3 crs. 3 hrs. *Preq: SPAN 209, SPAN 210, ENG 125 and EDUC 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.*

SPAN309 Comparative Structures of English and Spanish 3 crs. 3 hrs. *Preq: SPAN 208 and ENG 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.

SPAN310 Spanish Sociolinguistics 3 crs. 3 hrs. *Preq: SPAN 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.

SPAN320 Women Writers from Spain 3 crs. 3 hrs. *Preq: SPAN 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.

SPAN321 Medieval Spanish Literature 3 crs. 3 hrs. *Preq: SPAN 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.*

SPAN322 Literature of the Golden Age 3 crs. 3 hrs. *Preq: SPAN 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.

SPAN323 Spanish Romanticism and Realism of the 19th Century 3 crs. 3 hrs. *Preq: SPAN 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, Zorilla, Castro, Arroniz, Fernan Caballero, Valera, Galdos, Pardo Bazan.

SPAN324 Generation of 1898 to the Spanish Civil War 3 crs. 3 hrs. *Preq: SPAN 200.* Representative Spanish authors from the end of the 19th century to 1936.

SPAN325 Spanish Literature after the Spanish Civil War 3 crs. 3 hrs. *Preq: SPAN 200* Novel, drama, essay, and lyric poetry of 20th century Spain after 1936.

SPAN332 Contemporary Hispanic Novel Please contact the department chair for further information on this course.

SPAN351 Cervantes 3 crs. 3 hrs. *Preq: SPAN 200 and SPAN 209.* A general survey of Cervante's works with major emphasis on *Don Quijote*. *This is a writing intensive course.*

SPAN413 Hispanic Civilization 3 crs. 3 hrs. *Preq: SPAN 200 and SPAN 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.*

SPAN414 Seminar: Special Topics 3 crs. 3 hrs. *Preq: SPAN 200 and SPAN 209.* Intensive investigation of trends in Hispanic Literature. *Not offered on a regular basis. Availability to be determined by the department.*

SPAN415 Seminar on Poetry 3 crs. 3 hrs. *Preq: SPAN 200 and SPAN 209.* A special topic on poetry. *The topic varies with each offering.*

SPAN416 Seminar Narrative Prose 3 crs. 3 hrs. *Preq: SPAN 200 and SPAN 209.* A special topic on the novel and/or short story. *The topic varies with each offering.*

SPAN417 Seminar on the Theatre 3 crs. 3 hrs. *Preq: SPAN 200 and SPAN 209.* A special topic on the Theatre. *The topic varies with each offering.*

SPAN418 Seminar on an Author 3 crs. 3 hrs. *Preq: SPAN 200 and SPAN 209.* The examination of works by a specific author. *Authors will vary with each offering.*

SPAN419 Seminar on Writing 3 crs. 3 hrs. *Preq: SPAN 208 and SPAN 209.* A special topic related to writing. *The topic varies with each offering.*

SPCH

SPCH101 Oral Communication in Contemporary Society 3 crs. 4 hrs. *Preq: 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.*

SPCH160 Fundamentals of Oral Interpretation: Prose and Poetry 3 crs. 3 hrs. *Preq: 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.*

SPCH182 Voice and Diction 3 crs. 3 hrs. *Preq: 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.*

SPCH183 Voice and Diction II 3 crs. 3 hrs. *Preq: SPCH 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.

SPCH203 Ethics and the Freedom of Speech 3 crs. 3 hrs. *Preq: Sophomore status and SPCH 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.

SPCH231 Rhetorical Composition 3 crs. 3 hrs. *Preq: SPCH 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.

SPCH25 Gender and Communication 3 crs. 1 hrs. *Preq: Completion of course assigned at speech screening interview.* The intersection between gender, culture, and communication. Scholarly theory, social scientific studies, and critical analyses of gender across a broad range of contexts, including personal relationships, organizations, and the media. **Not open to students who have completed SPCH 60 during 2005.**

SPCH250 Introduction to Mass Media 3 crs. 3 hrs. *Preq: Sophomore status.* The communications media, emphasis on history, scope, function, regulation, and especially social implications.

SPCH321 Rhetorical Theory and Criticism 3 crs. 3 hrs. *Preq: 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.

SPCH322 Theories and Types of Persuasion 3 crs. 3 hrs. *Preq: 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.

SPCH333 Major American Spokesmen 3 crs. 3 hrs. *Preq: 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.*

SPCH341 Communications in Small Groups 3 crs. 3 hrs. *Preq: Principles, psychology, and the methods of group communications; practice sessions in group discussion and discussion leadership from a communications viewpoint.*

SPCH350 Persuasion and Propaganda in Television 3 crs. 3 hrs. *Preq: SPCH 250.* The nature of persuasion and propaganda as applied to all facets of television programming, both commercial and public. *Not offered on a regular basis. Availability to be determined by the department. Outside speakers may address the class.*

SPCH390 Special Studies Seminar I 3 crs. 3 hrs. *Preq: Permission of instructor.* An intensive study of a selected topic from a speech area. *The topic varies with each offering.*

SPCH391 Special Studies Seminar II 3 crs. 3 hrs. *Preq: Permission of instructor.* An intensive study of a selected topic from a speech area. *The topic varies with each offering.*

SPCH392 Special Studies Seminar III 3 crs. 3 hrs. *Preq: Permission of instructor.* An intensive study of a selected topic from a speech area. *The topic varies with each offering.*

SPCH490 Independent Research 3 crs. 0 hrs. *Preq: Senior status and 12 credits in Speech or permission of instructor.* Intensive individually guided advanced research in a speech area. *Hours arranged.*

SWA

SWA101 Elementary Swahili I 4 crs. 4 hrs. *Preq: Basic principles of a beginner's course; designed to give the foundations of the language. Offered when the demand exists.*

SWA102 Elementary Swahili II 4 crs. 4 hrs. *Preq: SWA 101.* Continuation of the beginner's course; more complex grammatical structures, integrated readings and further practice in conversation. *Offered when the demand exists.*

TA

TA110 Introduction to the Theatre 3 crs. 3 hrs. *Preq: 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.*

TA112 Voice and Stage Movement for Actors I 3 crs. 4 hrs. *Preq: Intensive instruction in voice and speech for acting; voice production, range expansion and control, sound formation and delivery. 1 hour lecture, 1 hour recitation, 2 hours laboratory. Not offered on a regular basis. Availability to be determined by the department.*

TA113 Voice and Stage Movement for Actors II 2 crs. 4 hrs. *Preq: SPCH 112.* Continuing study in stage movement, including mime, mask work, and stylized movement; continuing work in voice and speech, including classical performance, dialects, accents. *1 hour lecture, 3 hours studio. Not offered on a regular basis. Availability to be determined by the department.*

TA114 Stagecraft I 3 crs. 4 hrs. *Preq: An introduction to the study of the elements, the theories, the methods, and the materials used in modern theatre technology. This course will examine the elements of drama, their interaction, and their realization in the theatrical production process, focusing on the organization of theatre personnel, the architecture, the equipment, and the techniques used in the construction, theory, and execution of scenery, lighting, and costumes. Mandatory attendance at (and evaluation of) theatrical performances, both on and off campus required.*

TA115 Stagecraft II 3 crs. 4 hrs. *Preq: 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.*

TA211 Basic Acting 3 crs. 4 hrs. *Preq: English 125.* 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.*

TA212 Scene Study 3 crs. 4 hrs. *Preq: TA 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.*

TA215 Studies in Theatre Practice I 3 crs. 5 hrs. *Preq: Permission of instructor.* Acting, directing, stage lighting, scene design, costuming, or other aspects of theatre related to the college production. *1 hour lecture, 4 hours laboratory. Lectures by director and outside artists. Laboratory hours involve creative problem solving and realization of theatrical concepts.*

TA216 Studies in Theatre Practice II 3 crs. 5 hrs. *Preq: Permission of instructor.* Acting, directing, stage lighting, scene design, costuming, or other aspects of theatre related to the college production. *1 hour lecture, 4 hours laboratory. Lectures by director and outside artists. Laboratory hours involve creative problem solving and realization of theatrical concepts.*

TA217 Studies in Theatre Practice III 3 crs. 5 hrs. *Preq: Permission of instructor.* Acting, directing, stage lighting, scene design, costuming, or other aspects of theatre related to the college production. *1 hour lecture, 4 hours laboratory. Lectures by director and outside artists. Laboratory hours involve creative problem solving and realization of theatrical concepts.*

TA218 Studies in Theatre Practice IV 3 crs. 5 hrs. *Preq: Permission of instructor.* Acting, directing, stage lighting, scene design, costuming, or other aspects of theatre related to the college production. *1 hour lecture, 4 hours laboratory. Lectures by director and outside artists. Laboratory hours involve creative problem solving and realization of theatrical concepts.*

TA219 Studies in Theatre Practice V 3 crs. 5 hrs. *Preq: Permission of instructor.* Acting, directing, stage lighting, scene design, costuming, or other aspects of theatre related to the college production. *1 hour lecture, 4 hours laboratory. Lectures by director and outside artists. Laboratory hours involve creative problem solving and realization of theatrical concepts.*

TA261 Intermediate Oral Interpretation: Drama 3 crs. 3 hrs. *Preq: SPCH 160.* Theory, technique, and practice of the interpretation of drama; some attention to non-interpretative view points: the author, critic, philosopher, and auditor.

TA311 Fundamental of Directing 3 crs. 4 hrs. *Preq: TA 115 and TA 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.*

TA314 Computer Design for the Stage 3 crs. 4 hrs. *Preq: TA 110 and TA 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. *1 hour lecture, 1 hour recitation, 2 hours laboratory.*

TA316 Performance for Television 3 crs. 4 hrs. *Req: SPCH 160 or TA 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. 1 hour lecture, 1 hour recitation, 2 hours laboratory. *Original writing required for some assignments. Outside speakers may be invited.*

TA317 Theatrical Criticism 3 crs. 3 hrs. *Req: TA 115 and TA 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.*

TA390 Special Studies Seminar I 3 crs. 3 hrs. *Req: Permission of instructor.* An intensive study of a selected topic from an area in Theatre Arts. *The topic varies with each offering.*

TA391 Special Studies Seminar II 3 crs. 3 hrs. *Req: Permission of instructor.* An intensive study of a selected topic from an area in Theatre Arts. *The topic varies with each offering.*

TA392 Special Studies Seminar III 3 crs. 3 hrs. *Req: Permission of instructor.* An intensive study of a selected topic from an area in Theatre Arts. *The topic varies with each offering.*

TA411 History of Avant-Garde Performance 3 crs. 3 hrs. *Req: TA 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.*

TA490 Independent Research 3 crs. 0 hrs. *Req: Senior status and 12 credits in Theatre Arts or permission of instructor.* Intensive individually guided advanced research in a theatre arts area. *Hours arranged.*

WLIT

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WLIT201 The Literature of the Western World Through the Renaissance 3 crs. 3 hrs. *Req: ENG 125.* A comparative approach to European literature of the Classical, Medieval and Renaissance periods, in translation. Genres to be covered include mythology and the development of epic and lyric poetry, narrative poetry and prose and the theatre. Students will read works from Classical Greece and Rome, France, England, Germany, Scandinavia, Ireland, Spain, Italy, Portugal, etc. **Not open to students with credit in English 211.** *This course is Writing Intensive.*

WLIT205 Introduction to Francophone Literature 3 crs. 3 hrs. *Req: ENG 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.*

WLIT206 Introduction to the Literature of the Caribbean 3 crs. 3 hrs. *Req: ENG 125.* Introduction to the Literature of the Caribbean.

WLIT207 Introduction to Latin American Literature 3 crs. 3 hrs. *Req: ENG 125.* Introduction to the literature of Latin America.

WLIT210 French Masterpieces in Translation 3 crs. 3 hrs. *Req: Sophomore status or permission of instructor.* French literary masterpieces of the 19th and 20th centuries of such authors as Balzac, Stendhal, Baudelaire, Gide and Camus. **Not credited toward fulfillment of French major requirements. Not open to students with credit in FREN 327, FREN 328 or FREN 329.**

WLIT211 Italian Theatre in Translation 3 crs. 3 hrs. *Req: ENG 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.*

WLIT212 Masterpieces of Spanish Literature in Translation 3 crs. 3 hrs. *Req: ENG 125.* Representative works from the origins of Spanish Literature to the present. *Not credited toward fulfillment of Spanish Major requirements. Not offered on a regular basis. Availability to be determined by the department.*

WLIT225 Introduction to Latino Literature in the U.S. 3 crs. 3 hrs. *Req: ENG 125.* Introduction to the literature of Latinos in the U.S.

WLIT226 Contemporary Women Writers in World Literature 3 crs. 3 hrs. *Req: ENG 125.* Introduces students to significant literature written by women in the 19th and 20th centuries throughout the world. *3 hours lecture.*

WRIT

WRIT301 Research and Writing for the Major 3 crs. 4 hrs. *Req: Junior status and completion of ENG 125; AC 101.* 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. *2 hours lecture, 2 hours laboratory. Course sections may be offered as hybrid online courses.*

WRIT302 Research and Writing for the Sciences, Mathematics, and Technology 3 crs. 4 hrs. *Req: Junior status and completion of ENG 125; AC 101.* Research, reading, and writing for upper-division courses; drafting, revising, editing, and formatting documents. Readings are drawn primarily 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. *2 hours lecture, 2 hours laboratory. Course sections may be offered as hybrid online courses.*

WRIT303 Research and Writing for Professional Programs 3 crs. 4 hrs. *Req: Junior status and completion of ENG 125; AC 101.* Research, reading, and writing for upper-division courses; drafting, revising, editing, and formatting documents. Readings are 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. *2 hours lecture, 2 hours laboratory. Course sections may be offered as hybrid online courses.*

YD

YD 280 Theory and Practice 4 hrs., 3 crs.: *Prereq: English 125.* Students with prior course work in Childhood and Adolescent Development may be eligible for a waiver in YD 290. Surveys the field of developmental psychology, with an emphasis on resiliency theory and strengths-based perspectives on youth development. Principles of developmental psychology lay the groundwork for practices working with children and youth. Topics covered include physical, cognitive, and social-emotional development, as well as the diversity of developmental needs across ages, abilities, culture and sociopolitical conditions. The course includes 28 hours of supervised field experiences in educational environments that focus on the study of child and adolescent development as it relates to teaching and learning.

YD 283 Building Learning Communities; 4 hrs.; 3 cr. *Prereq: YD 280.* Surveys the field of educational psychology, with an emphasis on teaching practices that help build learning communities. Drawing upon various theories and related practices, students will learn how to design learning objectives, curriculum plans, interdisciplinary and thematic lessons, and multiple forms of assessment, as well as draw upon community resources. Students will also articulate a personal teaching philosophy as it relates to their practice. This course carries a Liberal Arts designation.

YD 290 Action Research for Educators. 2 hrs, 2 crs. *Prereq: YD 280, YD 283.* Supports educators to become reflective practitioners 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 implement an action research methodology, gather and interpret data, and then draw implications for their practice.

YID

YID101 Elementary Yiddish I 4 crs. 4 hrs. *Req: Basic principles of a beginner's course; designed to give the foundations of language. Offered when the demand exists.*

YID102 Elementary Yiddish II 4 crs. 4 hrs. *Req: YID 101.* Continuation of the beginner's course; more complex grammatical structures, integrated readings and further practice in conversation. *Offered when the demand exists.*

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Stephen Tyson, B.A., M.A., Director, Academic Achievement

ACADEMIC DEPARTMENT CHAIRS

Gila Acker, B.S.W., M.S.W., D.S.W., Department of Social Sciences

Kenneth Adams, B.M.E., M.A., Department of Performing and Fine Arts

David Ajuluchukwu, B.S., M.S., M.P.A., Ph.D., Department of Health and Physical Education and Gerontological Studies and Services

Paul Althaus, B.A., Ph.D., Department of Business & Economics

Mary-Jo Kranacher, BA, MBA, Department of Accounting and Finance

Valerie K. Anderson, B.A., M.A., Ed.D., Department of English

Margaret Ballantyne, B.A., M.A., Ph.D., Department of Foreign Languages, Humanities & ESL

Robert, A, Brugna, B.S., M.B.A., Department of Health Professions

Coleen Clay, B.A., M.A., M.S., M.E.D., Ed.D, Department of Teacher Education

Louis D'Alotto, B.S., M.S., Ph.D., Department of Mathematics and Computer Science

Lawrence Johnson, B.A., Ph.D., Department of Chemistry

Donna Chirico, Ph.D., Department of Behavioral Sciences

Gerard McNeil, B.S., Ph.D., Department of Biology

Larura Fishman, Ph.D., Department of History and Philosophy

Stanley Schleifer, B.S., M.A., Ph.D, Department of Earth and Physical Sciences

LIBRARY SERVICES

John Drobnicki, A.A., B.A., M.A., M.L.S., Chief Librarian

DIVISION OF ADMINISTRATIVE AFFAIRS

Jerald Posman, B.A., M.B.A., Senior Vice President, Administrative Affairs

Ronald C. Thomas, B.A., M.A., Dean

Noel Gamboa, B.S., Director of Facilities Operations & Campus Planning

Joseph Goffredo, Chief Administrative Superintendent of Buildings and Grounds

Sherrian Grant-Fordham, B.S., Coordinator of Events Planning and Management

Jacqueline Clark, B.S. B.S., M.S., M.B.A., Business Manager

Sharon Hawkins, B.A., Health Services Manager

Michel Hodge, B.A., M.S., Director, Project Management Office

Barbara Emanuel, B.A., Director of Human Resources (Interim)

Andre Mendell, B.B.A., Director of Budget

Rodney Miller, B.S., Director Custodial Services

Paul Murtha, B.F.A., M.S., Director of Campus Security

Rafael Nunez, B.A., M.F.A., Web Systems Director

Shyamji Srivastava, B.S., M.S. Director of Computer Services

Peter Tighe, Chief Information Officer

DIVISION OF STUDENT DEVELOPMENT

Janis W Jones, B.A., M.a., Ed.D, Vice President

Paula Middleton-La Lande, B.A., M.S., M.Ed., Ed.D. Associate Dean (Acting)

Marie Carrese-Araoz, B.A., M.Ed., Ph.D., Counselor/Professor

Linda Chesney, B.A., Director of Career Services

Linda M. McKinzie-Daugherty, B.A., M.S., CASAC, Executive Associate to the Vice President

Jean Phelps, B.S., M.A. Phd., Director of Student Activities

INSTITUTIONAL ADVANCEMENT UNIT

Earl Simons, B.A., M.P.A., Assistant to the Vice President of Institutional Advancement

Mondell Sealy, Director of Development & Alumni Affairs

Nathaniel B. Moore, B.J., M.S., Director of Marketing Communications

OFFICE OF ADMISSIONS

Diane Warmsley, B.F.A., M.S., Director

ADULT AND CONTINUING EDUCATION

Cynthia Murphy, B.A., M.A., Executive Director

OFFICE OF SCHOLARSHIP PROGRAMS

Brunilda Almodovar, B.S., M.S., Director

OFFICE OF STUDENT FINANCIAL SERVICES

Cathy Michaels, A.S., B.S., Director

Faculty

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Adams, Kenneth, Chair, Performing and Fine Arts

Agin, Denise, Associate Professor, Health and Physical Education

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Andretta, Helen R., Professor, English

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Arsov, Ivica, Associate Professor, Biology

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Auriemma, Donald, Associate Professor, Occupational Therapy

Austin, Susan, Lecturer, Behavioral Sciences

Avi-Itzhak, Tamara, Associate Professor, Occupational Therapy

Bai, Xin, Assistant Professor, Teacher Education

Babaali, Parisa, Substitute Assistant Professor, Math and Computer Sciences

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Barley, Linda, Professor, Health and Physical Education

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Baron, Lindamichelle, Assistant Professor, Teacher Education

Baxter, John, Aquatics, Recreation & Intramurals Manager, Health & Physical Education

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Becnel, Barbara, Faculty, Nursing,

Beckerman, Bernard, Associate Professor, Physician Assistant

Bell, Bernard, Lecturer, Mathematics and Computer Science,

Benedito, Roberto, Doctoral Lecturer, History and Philosophy,

Bercovitz, George, Lecturer, Accounting and Business

Bharosay, Boadnarine, Professor, Accounting and Finance,

Bisla, Sundeep, Assistant Professor, English,

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Bonaventura, Maria, D Biology

Borenstein, Samuel, Professor, Earth and Physical Sciences, PhD Imperial College, London;

Brodsky, Mitchell, Associate Professor, Health and Physical Education

Brugna, Robert, Chair, Health Professions,

Buxenbaum Nina, Assistant Professor, Performing and Fine Arts

Cao, Linglan, Doctoral Lecturer, English

Carta-Gerardino, Assistant Professor, Mathematics & Computer Science

Carrese-Araoz, Marie, Counselor, Counseling

Casey, John, Doctoral Lecturer, Biology,

Chang, Emmanuel, Assistant Professor, Chemistry,

Chirico, Donna, Chair, Behavioral Sciences, EDD Columbia University Teachers College; MS Fordham University at Lincoln Center; BA York College of The City University of New York;

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Clay, Colleen, Chair, Teacher Education

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Coen, Robert, Professor, Mathematics and Computer Science,

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Olajide Oladide, Assistant Professor, Business and Economics

Orlowski, Barbara, Instructor, Health Professions,

Ostholm, Shirley, Professor Emeritus, Behavioral Sciences,

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Rivera-Valdes, Sonia, Professor, Foreign Languages, ESL and Humanities,

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Ruttenberg, Howard, Professor, History and Philosophy,

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Schachter, Joseph, Associate Professor, Accounting and Business,

Scheiner, Peter, Professor Emeritus, Earth and Physical Sciences,

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Sharpe, Michael, Assistant Professor, Behavioral Sciences, PhD CUNY Graduate Center MPhil CUNY Graduate Center MA Columbia University BA Rutgers College / Rutgers University

Sheidlower, Scott, Assistant Professor, Library, MLS Queens College/CUNY MA New York University MA New York University BA Hunter College/CUNY

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Simkin, Phillips, Professor, Performing and Fine Arts, PhD

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Stolte, James, Chemistry

Strassberg, Helen, Professor, Mathematics and Computer Science

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Williams, Shawn, Assistant Professor, Health Professions

Wolf, Karin, Lecturer, English, MA Hunter College BA Queens College

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Wu, Tsu-Chih, Professor, Mathematics and Computer Science,

Young, Hope, Associate Professor, Library, MS College of New Rochelle MLS SUNY at Buffalo BS Andrews University

Zhang, Danyang, Assistant Professor, Communications Technology, Zhang, Xiaodan, Assistant Professor, Social Sciences, PhD Columbia University MA Columbia University MA CUNY Graduate Center BA East China Normal University

Zlabinger, Tom, Instructor, Performing and Fine Arts,

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.

Policies**A. Nondiscrimination Statement**

York College is committed to Equal Opportunity and Affirmative Action in its educational programs and personnel practices. The College follows the laws and mandates of the Federal Government as articulated by Executive Order #11246, and amended by the Chancellor of CUNY on 12/9/76, to include Italian Americans.

York College supports a policy of nondiscrimination. The College recruits, employs, retains and promotes employees without regard to race, color, national or ethnic origin, religion, age, sex, sexual orientation, transgender orientation, disability, genetic predisposition or carrier status, alienage or citizenship, veteran or marital status in its student admissions, employment, access to programs and administration of educational policies.

York College is committed to engaging and involving the entire College community in understanding and being knowledgeable about the Affirmative Action Program. Copies of the Affirmative Action Plan are available in the York College Library and an executive summary is available on the CPLA webpage and in each Vice President's office.

Olga Dais, Esq. is the Executive Director of Compliance Programs and Legal Affairs (CPLA) and coordinator for policies involving discrimination of any kind. Her office is located in Room AC-2H05 and her telephone number is (718) 262-2140.

Olga Dais, Esq. is the Coordinator of the Sexual Harassment Awareness and Intake Committee.

Ms. Brunilda Almodovar, Prof. Lindamichelle Baron, and Prof. Farley Mawyer are the Deputy Coordinators. Dr. Dais's office is located in Room AC-2H05 and her telephone number is (718) 262-2140. Ms. Almodovar's office is located in Room 4D-01 and her telephone number is (718) 262-2347. Prof. Baron's office is located in AC-1D05 and her telephone number is (718) 262-2938. Prof. Mawyer's office is located in Room AC-2C07 and his telephone number is (718) 262-2939.

Olga Dais, Esq. is the Coordinator of the 504/ADA Committee and her office is located in Room AC-2H05 and her telephone number is (718) 262-2140.

Olga Dais, Esq.; Prof. Charles Coleman and Prof. Eva Vasquez are the Coordinators of the Pluralism and Diversity Committee (formerly three separate committees: Affirmative Action, Pluralism and Diversity, and Title IX), which has the responsibility of supporting the office of CPLA in maintaining the diversity of the College Community. Prof. Coleman's office is located in Room AC-2B10 and his telephone number is (718) 262-2525. Prof. Vasquez's office is located in Room AC-3C10 and her telephone number is (718) 262-2437.

B. New York State Education Law, Article 5

S224-a. Students unable because of religious beliefs to register or attend classes on certain days.

No person shall be expelled from or be refused admission as a student to an institution of higher education for the reason that he or she is unable, because of his or her religious beliefs, to register or attend classes or to participate in any examination, study or work requirements on a particular day or days.

Any student in an institution of higher education who is unable, because of his or her 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.

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 or her religious beliefs, an equivalent opportunity to register for classes or make up any examination, study or work requirements which he or she may have missed because of such absence on any particular day or days. No fees of any kind shall be charged by the institution for making available to the said student such equivalent opportunity.

If registration, classes, examinations, study or work requirements are held on Friday after four o'clock post meridian or on Saturday, similar or make up classes, examinations, study or work requirements or opportunity to register 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 or registration held on other days.

In effectuating the provisions of this section, it shall be the duty of the faculty and of the administrative officials of each institution of higher education to exercise the fullest measure of good faith. No adverse or prejudicial effects shall result to any student because of his or her availing himself or herself of the provisions of this section.

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 or her rights under this section.

It shall be the responsibility of the administrative officials of each institution of higher education to give written notice to students of their rights under this section, informing them that each student who is absent from school, because of his or her religious beliefs, must be given an equivalent opportunity to register for classes or make up any examination, study or work requirements which he or she may have missed because of such absence on any particular day or days. No fees of any kind shall be charged by the institution for making available to such student such equivalent opportunity.

As used in this section, the term "institution of higher education" shall mean any institution of higher education recognized and approved by the regents of the University of the State of New York, which provides a course of study leading to the granting of a post-secondary degree or diploma. Such term shall not include any institution which is operated, supervised or controlled by a church or by a religious or denominational organization whose educational programs are principally designed for the purpose of training ministers or other religious functionaries or for the purpose of propagating religious doctrines. As used in this section, the term "religious belief" shall mean beliefs associated with any corporation organized and operated exclusively for religious purposes, which is not disqualified for tax exemption under section 501 of the United States Code.

C. Rules And Regulations For The Maintenance Of Public Order Pursuant To Article 129-A Of The Education Law

The tradition of the University as a sanctuary of academic freedom and center of informed discussion is an honored one, to be guarded vigilantly. The basic significance of that sanctuary lies in the protection of intellectual freedom: the rights of professors to teach, of scholars to engage in the advancement of knowledge, of students to learn and to express their views, free from external pressures or interference.

These freedoms can nourish 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 By-laws of the Board of Higher Education.

With respect to enforcement of these rules and regulations we note that the By-laws of the Board of Higher Education provide that:

THE PRESIDENT

The president, with respect to his education unit, shall:

Have the affirmative responsibility of conserving and enhancing the educational standards of the college and schools under his jurisdiction;

Be the advisor and executive agent of the Board and of his respective College Committee and as such shall have the immediate supervision with full discretionary power in carrying into effect the Bylaws, resolutions, and policies of the Board, the lawful resolutions of the several faculties;

Exercise general superintendence over the concerns, officers, employees, and students of his educational unit.

Rules

A member of the academic community shall not intentionally obstruct and/or forcibly prevent others from the exercise of their rights. Nor shall he interfere with the institution's educational processes or facilities, or the rights of those who wish to avail themselves of any of the institution's instructional, personal, administrative, recreational, and community services.

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.

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.

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.

Each member of the academic community or an invited guest has the right to advocate his position without having to fear abuse, physical, verbal, or otherwise, from others supporting conflicting points of view. Members of the academic community and other persons on the college grounds shall not use language or take actions reasonably likely to provoke or encourage physical violence by demonstrators, those demonstrated against, or spectators.

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 the 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.

Disorderly or indecent conduct on University/college owned or controlled property is prohibited.

No individual shall have in his possession a rifle, shotgun, or firearm or knowingly have in his possession any other dangerous instruments or material that can be used to inflict bodily harm on an individual or damage upon a building or the grounds of the University/college without the written authorization of such educational institution. Nor shall any individual have in his possession any other instrument or material which can be used and is intended to inflict bodily harm on any individual or damage upon a building or the grounds of the University/college.

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.

The unlawful manufacture, distribution, dispensation, possession, or use of illegal drugs or other controlled substances by University students or employees on University/college premises, or as part of any University/college activities is prohibited. Employees of the University must also notify the College Personnel Director of any criminal drug statute conviction for a violation occurring in the workplace not later than five (5) days after such conviction.

The unlawful possession, use, or distribution of alcohol by students or employees on University/college premises or as part of any University/college activities is prohibited.

Penalties

Any student engaging in any manner in conduct prohibited under substantive Rules 1-11 shall be subject to the following range of sanctions as hereafter defined in the attached Appendix: admonition, warning, censure, disciplinary probation, restitution, suspension, expulsions, ejection, and/or arrest by the civil authorities.

Any tenured or non-tenured faculty member, or other member of the instructional staff, or member of the classified staff engaging in any manner in conduct prohibited under substantive Rules 1-11 shall be subject to the following range of penalties: warning, censure, restitution, fine not exceeding those permitted by law or by the By-laws of CUNY or suspension with/without pay pending a hearing before an appropriate college authority, dismissal after a hearing, ejection, and/or arrest by the civil authorities, and, for engaging in any manner in conduct prohibited under substantive rule 10, may, in the alternative, be required to participate satisfactorily in an appropriately licensed drug treatment or rehabilitation program. A tenured or non-tenured faculty member, or other member of the instructional staff, or member of the classified staff charged with engaging in any manner in conduct prohibited under substantive Rules 1-11 shall be entitled to be treated in accordance with applicable provisions of the Education Law, or the Civil Service Law, or the applicable collective bargaining agreement, or the By-laws or written policies of CUNY.

Any visitor, licensee, or invitee, engaging in any manner in conduct prohibited under substantive Rules 1-11. Shall be subject to ejection, and/or arrest by the civil authorities.

Any organization which authorized the conduct prohibited under substantive rules 1-11 shall have its permission to operate on campus rescinded.

Penalties 1-4 shall be in addition to any other penalty provided by law or The City University Trustees.

Appendix

Sanctions Defined:

A. Admonition.

An oral statement to the offender that he has violated university rules.

B. Warning.

Notice to the offender, orally or in writing, that continuation or repetition of the wrongful conduct, within a period of time stated in the warning, may cause far more severe disciplinary action.

C. Censure.

Written reprimand for violation of specified regulation, including the possibility of more severe disciplinary sanction in the event of conviction for the violation of any University regulation within a period stated in the letter of reprimand.

D. Disciplinary Probation.

Exclusion from participation in privileges or extracurricular University activities as set forth in the notice of disciplinary probation for a specified period of time.

E. Restitution.

Reimbursement for damage to or misappropriation of property. Reimbursement may take the form of appropriate service to repair or otherwise compensate for damages.

F. Suspension.

Exclusion from classes and other privileges or activities as set forth in the notice of suspension for a definite period of time.

G. Expulsion.

Termination of student status for an indefinite period. The conditions of readmission, if any is permitted, shall be stated in the order of expulsion.

H. Complaint to Civil Authorities.

I. Ejection.

D. Important Notice of Possible Changes

CUNY 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 notice. Tuition and fees set forth in this publication (or on this website) are similarly subject to change by the Board of Trustees of CUNY. The University regrets any inconvenience this may cause.

E. Notification Under FERPA of Student Rights Concerning Education Records and Directory Information

The Family Educational Rights and Privacy Act (FERPA) affords students certain rights with respect to their education records. See Section "6" below on your right to prevent the disclosure of directory information. The FERPA rights of students are:

1. The right to inspect and review your education records.

Students should submit to the registrar, dean, head of the academic department, or other appropriate official, written requests that identify the record(s) they wish to inspect. If the records are not maintained by the college official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.

All requests shall be granted or denied in writing within 45 days of receipt. If the request is granted, you will be notified of the time and place where the records may be inspected. If the request is denied or not responded to within 45 days, you may appeal to the college's FERPA appeals officer. Additional information regarding the appeal procedures will be provided to you if a request is denied.

2. The right to request the amendment of the student's education records that the student believes are inaccurate or misleading.

You may ask the college to amend a record that you believe is inaccurate or misleading. You should write to the college official responsible for the record, clearly identify the part of the record you want changed, and specify why it is inaccurate or misleading.

If the college decides not to amend the record as requested by you, the college will notify you of the decision and advise you of your right to a hearing before the college's FERPA appeals officer regarding the request for amendment. Additional information regarding the hearing procedures will be provided to you when notified of your right to a hearing.

3. The right to consent to disclosure of personally identifiable information contained in your education records, except to the extent that FERPA authorizes disclosure without consent. One exception which permits disclosure without consent is disclosure to college officials with legitimate educational interests. A college official is a person employed by the university in an administrative, supervisory, academic or research, or support staff position; a person or company with whom the University has contracted; a person serving on the Board of Trustees; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another college official in performing his or her tasks. A college official has a legitimate educational interest if access is reasonably necessary in order to perform his/her instructional, research, administrative or other duties and responsibilities. Upon request, the college discloses education records without consent to officials of another college or school in which a student seeks or intends to enroll.

4. You may appeal the alleged denial of FERPA rights to the:

General Counsel and Vice Chancellor for Legal Affairs

CUNY 535 East 80th Street New York, NY 10021.

5. The right to file a complaint with the U.S. Department of Education concerning alleged failures by the college to comply with the requirements of FERPA. The name and address of the Office that administers FERPA are:

Family Policy Compliance Office

U.S. Department of Education 600 Independence Avenue, SW Washington, D.C. 20202-4605.

6. The college will make the following “directory information” concerning current and former students available to those parties having a legitimate interest in the information: name, attendance dates (periods of enrollment), address, telephone number, date and place of birth, photograph, e-mail address, full or part-time status, enrollment status (undergraduate, graduate, etc.), level of education (credits) completed, major field of study, degree enrolled for, participation in officially recognized activities and sports, height and weight of athletic team members, previous school attended, and degrees, honors and awards received. By filing a form with the Registrar’s Office, you may request that any or all of this directory information not be released without your prior written consent.

This form is available in the Registrar’s Office and may be filed, withdrawn, or modified at any time.

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 student’s 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.

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.

F. Notification of Student Immunization Requirements

Students who do not submit proof of measles, mumps and rubella (MMR) immunization or who fail to return the meningococcal meningitis response form within a statutory grace period shall be prohibited from attending the institution. For additional information, you should contact the Health Services Center located at AC-1F01 at the following phone number 718.262.2050.

Public Health Law 2165 requires that post-secondary students be immunized against measles, mumps, and rubella (MMR). All registered full-time students and part-time students born on or after January 1, 1957 who are enrolled for at least six, but fewer than twelve semester hours (or equivalent) per semester in an approved degree program or registered certificate program must submit proof of MMR immunization.

Students may be exempt from the required MMR immunizations for religious or medical reasons. To qualify for a religious exception, students must submit a signed statement, or in the event the student is a minor (under 18), a signed statement from their parent or guardian, that they hold sincere and genuine religious beliefs that prohibit immunization. To qualify for a medical exception, students must submit a written statement from a licensed physician or nurse practitioner indicating that such immunization may be detrimental to their health.

Public Health Law 2167 requires that post-secondary institutions provide written information about meningococcal meningitis to its students and that students complete, sign, and return a meningococcal meningitis response form. Public Health Law 2167 does not require that students be immunized against meningitis. Public Health Law 2167 requires colleges to distribute written information about meningococcal meningitis disease and vaccination and students to complete, sign and return to the college, a meningococcal meningitis response form that: (a) confirms that the college has provided the information about meningococcal meningitis; and (b) indicates that either: (1) the student has received immunization against meningococcal meningitis within the 10 years preceding the date of the response form; or (2) the student has decided against receiving the vaccination. This law applies to students, who are enrolled in at least six semester hours (or the equivalent) per semester. No student may be exempt from receiving information or returning the response form.

G. Freedom of Information Law Notice

Requests to inspect public records at the college should be made to the Records Access Officer, Olga Dais, Esq., Executive Director of Compliance Programs and Legal Affairs, Room AC-2H05.

Public records are available for inspection and copying by appointment only at the library. You have a right to appeal a denial of a request for access to records to the CUNY General Counsel and Vice Chancellor for Legal Affairs. Copies of the CUNY Procedures for Public Access to Public Records Pursuant to Article 6 of the Public Officers Law and the appeal form are available at the reference desk of the library and the college website.

H. Special Provisions For Students In The Military

The following policies apply to students who leave CUNY to fulfill military obligations.

I. Students called up to the reserves or drafted before the end of the semester.

A. Grades. In order to obtain a grade, a student must attend 13 weeks (five weeks for summer session).

B. Refunds. A student called up to the reserves or drafted who does not attend for a sufficient time to qualify for a grade is entitled to a 100% refund of tuition and all other fees except application fees.

II. Students who volunteer (enlist) for the military.

A. Grades. Same provision as for students called up to the reserves. In order to obtain a grade, a student must attend 13 weeks (five weeks for summer session).

B. Refunds. The amount of the refund depends upon whether the withdrawal is before the 5th week of classes.

1. Withdrawal before beginning of the 5th calendar week (3rd calendar week for summer session): 100%

Refund of tuition and all other fees except application fees.

2. Withdrawal thereafter: 50% refund.

[A proportionate number of weeks may be used for Kingsborough Community College and LaGuardia

Community College for each of the above provisions.]

III. Other Provisions for Military Service:

A. Resident Tuition Rates. These lower rates are applicable to all members of the armed services, their spouses and their dependent children, on full-time active duty and stationed in the State of New York.

B. Re-enrollment of Veterans. Veterans who are returning students are given preferred treatment in the following ways:

1. Veterans who were former students with unsatisfactory scholastic records may be readmitted with a probationary program.

2. Veterans, upon their return, may register even after normal registration periods, without late fees.

3. Granting of college credit for military service and armed forces instructional courses.

4. Veterans returning too late to register may audit classes without charge.

C. Late Admissions. Veterans with no previous college experience are permitted to file applications up to the date of registration, and are allowed to begin classes pending completion of their application and provision of supporting documents.

D. Readmission Fee. Upon return from military service, a student will not be charged a Readmission Fee to register at the same college.

E. Veterans Tuition Deferrals. Veterans are entitled to defer the payment of tuition pending receipt of veterans' benefits.

F. New York National Guard Tuition Waivers. Active members of the New York National Guard, who are legal residents of New York State and who do not have a baccalaureate degree, are eligible for a tuition waiver for undergraduate study.

I. CUNY – Policy On Withholding Student Records

Students who are delinquent and/or in default in any of their financial accounts with the college, the university or an appropriate state or federal agency for which the university acts as either a disturbing or certifying agent, and students who have not completed exit interviews as required by the federal

Perkins Loan Program, the federal Family Education Loan Programs, the William D. Ford Federal Direct Loan Program, and the Nursing Student Loan Program, are not to be permitted to complete registration, or issued a copy of their grades, a transcript of academic record, certificate, or degree, nor are they to receive funds under the federal campus-based student assistance programs or the federal Pell Grant Program unless the designated officer, in exceptional hardship cases and consistent with federal and state regulations, waives in writing the application of this regulation.

J. Academic Integrity

Successful teaching and learning depend on trust in the integrity of all involved. York's Academic Integrity Policy and Procedures, developed to conform to the CUNY policy on Academic Integrity, outline College practices for (1) promoting academic integrity at the College; and (2) dealing with violations of academic integrity. The full Academic Integrity Policy and Procedures document is posted on the York College website at <http://york.cuny.edu/Academic-Integrity>

K. Computer User Responsibilities

Please see the link to the CUNY computer user responsibilities on the York College website.

L. Notice of Access to Campus Crime Statistics, The Campus Security Report, and Information on Registered Sex Offenders

The College Advisory Committee on Campus Safety will provide upon request all campus crime statistics as reported to the U.S. Department of Education, as well as the annual campus security report. The campus security report includes:

- The campus crime statistics for the most recent calendar year and the two preceding calendar years;
- Campus policies regarding procedures and facilities to report criminal actions or other emergencies on campus;
- Policies concerning the security of and access to campus facilities policies on campus law enforcement;
- A description of campus programs to inform students and employees about campus security procedures and practices and to encourage students and employees to be responsible for their own security and the security of others;
- Campus crime prevention programs;
- Policy concerning the monitoring through the police of criminal activity at off-campus locations of students organizations officially recognized by the college;
- Policies on illegal drugs, alcohol, and underage drinking;
- Where information provided by the State on registered sex offenders may be obtained (also see below); and
- Policies on campus sexual assault programs aimed at the prevention of sex offenses and procedures to be followed when a sex offense occurs. This information is maintained pursuant to the federal Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act.

The campus crime statistics and the annual campus security report are available at the reference desk of the library and the college website at www.york.cuny.edu If you wish to be mailed copies of the campus crime statistics and the annual campus security report, you should contact the York College Director of Public Safety at 718.262.2218 and copies will be mailed to you within 10 days. The U.S. Department of Education's website address for campus crime statistics is www.ed.gov/security/InstDetail.asp (then input the name of the school).

In accordance with the federal Campus Sex Crimes Prevention Act, registered sex offenders now are required to register the name and address of any college at which he or she is a student or employee. The New York State Division of Criminal Justice maintains a registry of convicted sex offenders and informs the college's chief security (public safety) officer of the presence on campus of a registered sex offender as a student or employee. You may contact the York College Assistant Director of Public Safety at 718.262.2218 to obtain information about Level 2 or Level 3 registered sex offenders on campus. To obtain information about Level 3 offenders, you may contact the Division's registry website at www.criminaljustice.state.ny.us/nsor/sor_about.htm and then click on "Search for Level 3 Sex Offenders" or access the directory at the college's public safety department or police precinct. To obtain information about Level 2 offenders, you need to contact the public safety department, local police precinct in which the offender resides or attends college, or the Division's sex offender registry at 800-262-3257.

M. Athletic Program Participation Notice

The College files an annual report with the U.S. Secretary of Education on intercollegiate athletics which includes information on the participation of males and females on its teams, and the expenditures and revenues of those teams. Copies of the annual report on intercollegiate athletics are available at the reference desk of the library and the college website.

N. Procedures for Handling Student Complaints

The procedure for handling student complaints about faculty conduct in formal academic settings was adopted by the Board of Trustees effective February 1, 2007.

The University and its Colleges view academic freedom as being very important, but at the same time want to recognize their responsibility to provide students with a procedure for addressing complaints about faculty treatment of students that are not protected by academic freedom. Examples might include inefficient service, neglect of duty, physical or mental incapacity and conduct unbecoming a member of the staff.

Thus far, there are a variety of procedures for dealing with student-related issues, including grade appeals, academic integrity violations, student discipline, disclosure of student records, student elections, sexual harassment complaints, disability accommodations, and discrimination.

(i) Informal Resolution. Students are encouraged to attempt to resolve complaints informally with the faculty member, for example, make an appointment to meet with the faculty member during office hours or where appropriate the academic dean.

(ii) Formal Complaint. In an effort to make the formal complaint process seamless, the following documents were developed to be used where there is a complaint filed by a student.

The student may file a written complaint with the department chairperson ("Fact Finder"). The formal complaint has to be filed within thirty (30) calendar days of the alleged conduct unless there is good cause shown for delay. The complainant should be as specific as possible in describing the conduct complained of. The complaint should be filed on the Student Complaint Form.

The Fact Finder shall promptly send a copy to the faculty member about whom the complaint is made, along with a letter stating that the filing of the complaint does not imply that any wrongdoing has occurred and that a faculty member must not retaliate in any way against a student for having made a complaint.

The Fact Finder meets with the complaining student and faculty member, either separately or together, to discuss the complaint and try to resolve it.

If resolution is not possible, and the Fact Finder concludes that the facts alleged by the student, taken as true and viewed in the light most favorable to the student, establish that the conduct complained of is clearly protected by academic freedom, he or she shall issue a written report dismissing the complaint and setting forth the reasons for dismissal and send a copy to the complaining student, the faculty member, the chief academic officer, the chief student affairs officer, and the legal affairs office (CPLA).

At the conclusion of investigation, the "Fact Finder" shall issue a written report setting forth his or her findings and recommendations. A copy of the report shall be sent to the complainant, the faculty member, the chief academic officer, the chief academic student affairs officer, and the legal office (CPLA). The process should be completed within 30 days after date it was filed.

Student Complaint Appeals Procedures

If either the student or the faculty member is not satisfied with the report of the fact finder, either party may file a written appeal to the chief academic officer (provost) within 10 calendar days of receiving the report. The chief academic officer shall convene and serve as the chairperson of an Appeals Committee. The committee consists of five (5) members which include: the provost, the vice president of student development, two faculty members (elected by the Faculty Senate members), and one student (elected by the Student Senate members).

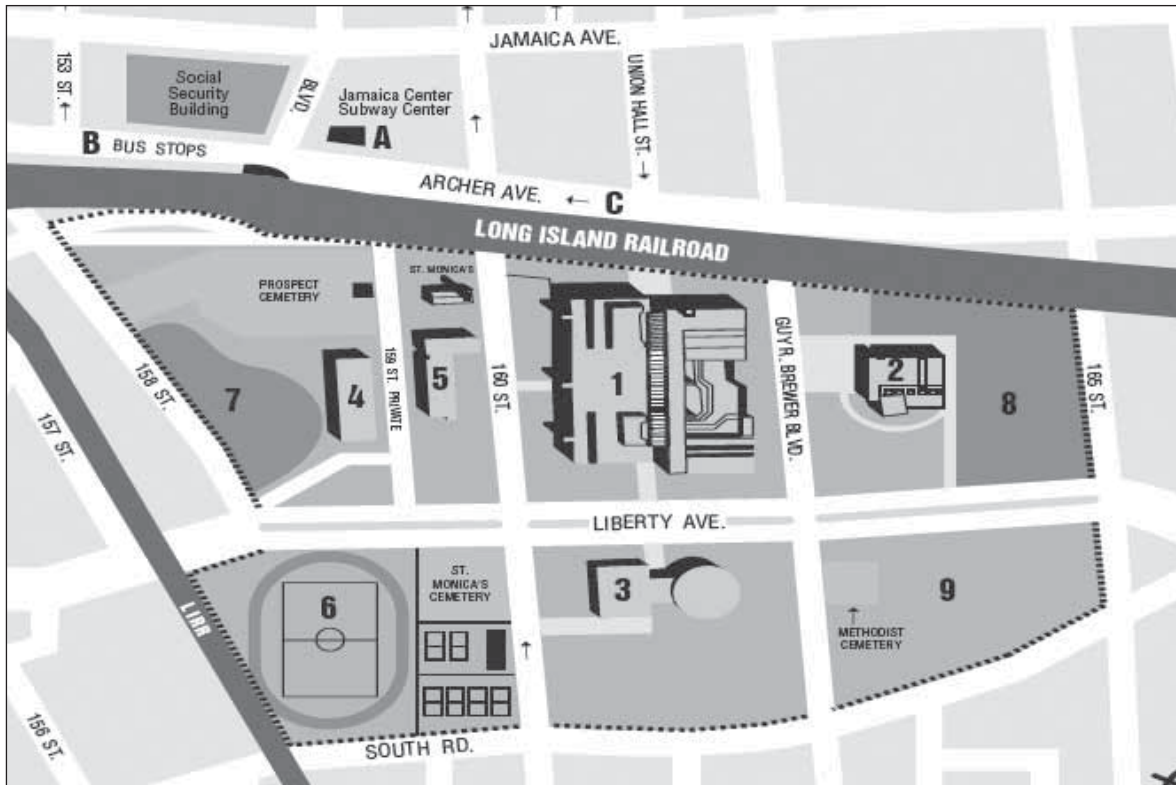
The Appeals Committee's responsibility shall be to review the findings and recommendations of the report with particular focus on whether the conduct in question is protected by academic freedom. The Appeals Committee shall not conduct a new factual investigation or overturn any factual findings contained in the report unless they are clearly erroneous.

If the Appeals Committee decides to reverse the fact finder in a case where there has not been an investigation because the fact finder erroneously found that the alleged conduct was protected by academic freedom, it may remand to the fact finder for further investigation. The committee shall issue a written decision within 20 calendar days of receiving the appeal. A copy of the decision shall be sent to the student, the faculty member, department chairperson, legal designee and the president.

Following the completion of the process, the appropriate college official shall decide the appropriate action, if any, to take. Any action taken by York College must comply with the bylaws of the University and the collective bargaining agreement between the University and the Professional Staff Congress.

For the entire policy and procedure for handling student complaints about faculty conduct in formal academic settings and to get forms go to the York College CPLA website at www.york.cuny.edu/cpla

Campus Map



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Getting to Your Class:

- 1. Academic Core Building
- 2. Performing Arts Center
- 3. Health and Physical Education Building
- 4. Science Building
- 5. Classroom Building
- 6. Track/Tennis Courts
- 7. FDA Regional Lab

- 8. Main Parking Lot
- A. Parsons/Archer Jamaica Center IND/BMT Subway Terminal E,J & Z
- B. Archer Ave. Bus Terminal
- C. Union Hall Street Entrance

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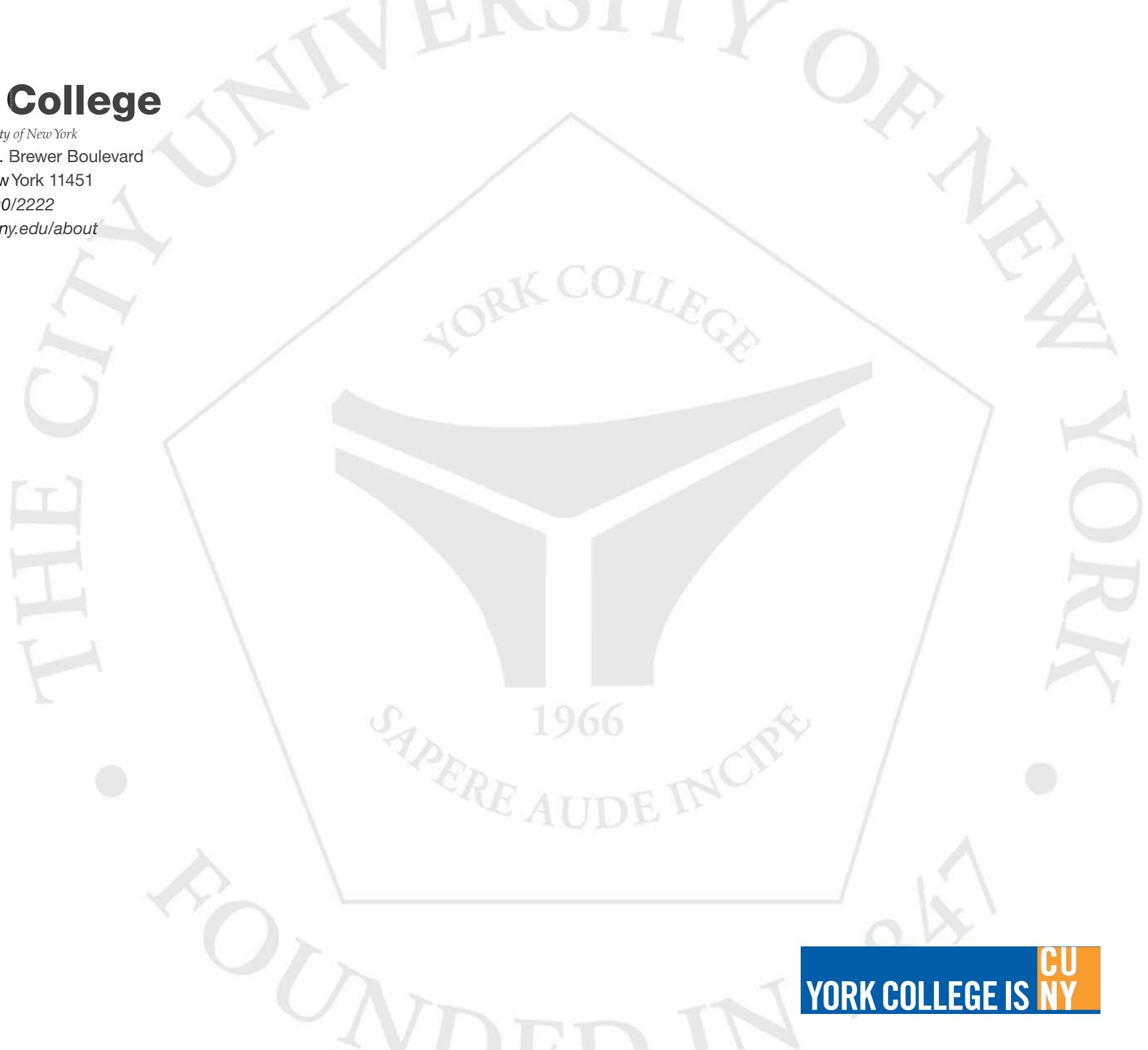
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