

YORK COLLEGE

The City University of New York

2010-2011 Bulletin

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NUMBER 40

YORK COLLEGE

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(718) 262-2000
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Every effort has been made to make the material presented herein timely and accurate. As changes occur, they will be communicated via traditional media and reflected on the College's website. Students are encouraged to check the website to determine the most up-to-date program and course information and to make use of the Student Degree Audit System (Cardinal Check) to track progress toward graduation. Critical points of fact or interpretation should be considered subject to confirmation by the appropriate office or department of the College.

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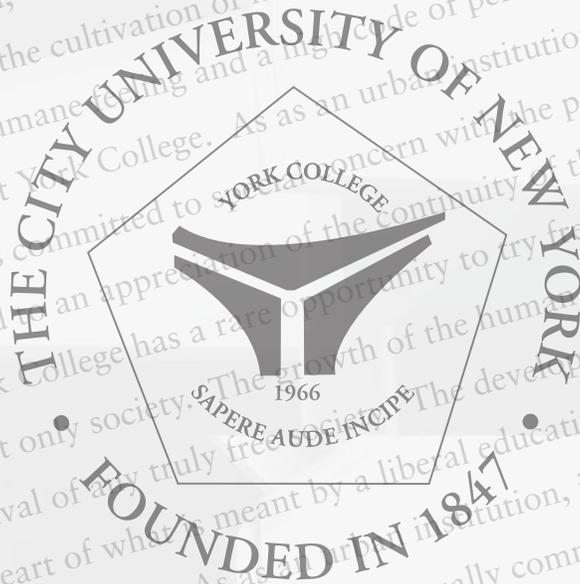


TABLE OF CONTENTS

| | |
|---|---------|
| Calendars for the 2010-2011 Academic Year | VI-VIII |
| Mission & Vision of the College | IX |
| About York College | X |
| Admissions Into to the College | 12 |
| Registration Information..... | 15 |
| Tuition & Fees | 17 |
| Academic Policies..... | 29 |
| General Education Requirements | 36 |
| Majors & HEGIS Codes..... | 37 |
| Resources Available to Students..... | 38 |
| Financial Aid Information | 46 |
| <i>School of Arts & Sciences</i> | 49 |
| Department of Biology | 50 |
| Department of Chemistry | 52 |
| Department of Earth & Physical Sciences | 55 |
| Department of English | 60 |
| Department of Foreign Languages, ESL & Humanities | 63 |
| Department of History & Philosophy | 67 |
| Department of Mathematics & Computer Science | 70 |
| Department of Performing & Fine Arts | 73 |
| <i>School of Business & Information Systems.</i> | 78 |
| CUNY Aviation Institute at York College | 41 |
| Department of Accounting & Finance..... | 79 |
| Department of Business & Economics | 80 |
| <i>School of Health & Behavioral Sciences</i> | 84 |
| Department of Behavioral Sciences | 85 |
| Department of Health & Physical Education..... | 89 |
| Department of Health Professions | 94 |
| Department of Occupational Therapy | 100 |
| Department of Social Sciences | 104 |
| Department of Teacher Education | 108 |
| Course Descriptions | 112 |
| The Board of Trustees of the City University of New York..... | 200 |
| York College Senior Administration & Faculty..... | 200 |
| Full-Time Faculty | 201 |
| Policies..... | 206 |
| Index | 214 |

Fall 2010 Semester Academic Calendar

| | |
|-----------------------------|---|
| Aug 16, 2010 - Aug 18, 2010 | Freshman Orientation. |
| Aug 19, 2010 - Aug 20, 2010 | Registration |
| Aug 23, 2010 - Aug 25, 2010 | Registration |
| Aug 25, 2010 | Last day for non-matriculated students to apply for matriculation |
| Aug 25, 2010 | Last day to drop courses for 100% tuition refund. |
| Aug 26, 2010 | First day of classes. |
| Aug 26, 2010 - Aug 31, 2010 | *Late Registration and Program Changes. |
| Sep 01, 2010 | *Last day to drop courses for 75% tuition refund. |
| Sep 05, 2010 | No classes scheduled |
| Sep 06, 2010 | Labor Day – College is closed. |
| Sep 08, 2010 | No classes scheduled for classes that end after 4:00PM. |
| Sep 08, 2010 | *Last day to drop courses for 50% tuition refund. |
| Sep 08, 2010 | Last day to add course(s) or switch sections of the same course |
| Sep 09, 2010 - Sep 10, 2010 | No classes scheduled. |
| Sep 11, 2010 | Saturday office hours for selected areas of Student Support |
| Sep 11, 2010 | York Fest |
| Sep 14, 2010 | Classes will follow a Friday schedule. |
| Sep 15, 2010 | *Last day to drop courses for 25% tuition refund. |
| Sep 15, 2010 | *Last day to withdraw from a course(s) WITHOUT a “W” grade. |
| Sep 15, 2010 | Last day to file for May 2011 Graduation. |
| Sep 16, 2010 | *Course withdrawal period begins. (Grades of “W” are assigned to students who officially drop courses). |
| Sep 16, 2010 | Fall 2010 Convocation. |
| Sep 17, 2010 - Sep 18, 2010 | No classes scheduled. |
| Oct 09, 2010 | Saturday office hours for selected areas of Student Support Services. |
| Oct 11, 2010 | Columbus Day – College is closed. |
| Oct 20, 2010 | CUNY Wide Leadership Training |
| Oct 21, 2010 - Nov 01, 2010 | Midterm Assessment Period. |
| Nov 03, 2010 | No classes scheduled for classes that end at or start before 4:00PM. |
| Nov 13, 2010 | Saturday office hours for selected areas of Student Support Services. |
| Nov 17, 2010 | *Last day to withdraw from a course(s) WITH a “W” grade. |
| Nov 17, 2010 | Last day to elect a Pass/Fail Option. |
| Nov 17, 2010 | Last day for “INC” grade changes for Spring 2010 and Summer 2010 to be received by the Office of the Registrar. |
| Nov 25, 2010 - Nov 28, 2010 | Thanksgiving Recess -College is closed. |
| Nov 29, 2010 | Winter 2011 and Spring 2011 registration begins. |
| Dec 13, 2010 | Last day of classes. |
| Dec 13, 2010 | Last day to rescind a Pass/Fail Option. |
| Dec 14, 2010 | Reading Day. |
| Dec 15, 2010 - Dec 21, 2010 | Final Examinations |

Winter Session 2011 Academic Calendar

| | |
|---------------------------------------|--|
| November 29, 2010 | First day of registration. |
| December 15, 2010 | Last of registration. |
| December 16, 2010 | Deregistration for non-payment for Winter Session |
| December 24, 2010 - December 25, 2010 | College is closed |
| December 31, 2010 | College is closed |
| January 1, 2011 | College is closed. |
| January 2, 2011 | Last day for 100% refund* |
| January 3, 2011 | First dat of Winter Session Classes |
| January 3, 2011 | Last day for all grades, transcripts and documents for February 2011 Graduation to be received at the Office of the Registrar. |
| January 3, 2011 | Late registration and program changes |
| January 6, 2011 | *Last day for 50% refund. |
| January 13, 2011 | *Last day for 25% refund |
| January 13, 2011 | *Last day to withdraw from a course(s) WITHOUT a "W" grade. |
| January 17, 2011 | College is closed. |
| January 18, 2011 | *Last day to withdraw from a course(s) WITH a "W" grade. |
| January 21, 2011 | Last Day of classes Last Day to rescind a Pass/Fail option, |
| January 24, 2011 | Final examinations End of Winter Session |

Winter Session Registration Information

- All continuing York College students may register for the Winter Session beginning November 29, 2010.
- All students must register for their course(s) using eSIMS. When choosing a semester below the Registration drop down menu, students must choose Fall 2010 – Session II.
- To access eSIMS log on the CUNY Portal at www.cuny.edu.
- Students who do not pay their Winter Session bill by Wednesday, December 15, 2010 will be DE-REGISTERED from their Winter Session course(s).
- If you are DE-REGISTERED from your Winter Session course(s) you will not be able to re-register until January 3, 2011 and a late registration fee of \$25.00 will be charged to your bill.

Winter Session Payment Information

- All outstanding payments for the Winter Session are due on or before Wednesday, December 15, 2010 at 4:00 PM.
- Payments can be made to the Bursar's Office, room AC-1H01 or online by accessing eSIMS on the CUNY Portal at www.cuny.edu.
- AMS payment plans *are not* be available for the Winter Session.
- Winter Session classes will be billed separately from the Fall term although they appear on the same bill.

Spring 2011 Academic Calendar

| | |
|-----------------------------|---|
| Jan 12, 2011 | Freshman Orientation |
| Jan 13, 2011 | Freshman Orientation |
| Jan 17, 2011 | Martin Luther-King Day - College is Closed |
| Jan 24, 2011 - Jan 27, 2011 | Registration |
| Jan 27, 2011 | Last day for non-matriculated students to apply for matriculation for the Spring 2011 semester. |
| Jan 27, 2011 | Last day to receive 100% refund |
| Jan 28, 2011 | *Late Registration and Program Changes. |
| Jan 28, 2011 | First day of classes |
| Jan 31, 2011 | *Late Registration and Program Changes. |
| Feb 01, 2011 - Feb 02, 2011 | *Late Registration and Program Changes. |
| Feb 03, 2011 | *Last day to receive 75% refund. |
| Feb 10, 2011 | *Last day to receive 50% refund. |
| Feb 10, 2011 | Last day to add course(s) or switch sections of the same course with approval from Academic Department Chairperson. |
| Feb 11, 2011 | Lincoln's Birthday - College is closed. |
| Feb 12, 2011 | No classes scheduled |
| Feb 17, 2011 | Last day to file for September 2011 Graduation. |
| Feb 17, 2011 | *Last day to receive 25% refund. |
| Feb 17, 2011 | *Last day to withdraw from a course(s) WITHOUT a "W" grade. |
| Feb 18, 2011 | *Course withdrawal period begins. (Grades of "W" are assigned to students who officially drop courses.) |
| Feb 19, 2011 | Saturday office hours for selected areas of Student Support Services. |
| Feb 21, 2011 | Presidents' Day - College is closed. |
| Feb 22, 2011 | Spring 2011 Convocation. |
| Feb 23, 2011 | Classes will follow a Monday schedule. |
| Mar 12, 2011 | Saturday office hours for selected areas of Student Support Services. |
| Mar 18, 2011 - Mar 29, 2011 | Midterm Assessment Period. |
| Mar 24, 2011 | Dean's List Reception. |
| Apr 09, 2011 | Saturday office hours for selected areas of Student Support Services. |
| Apr 11, 2011 | *Last day to withdraw from a course(s) WITH a "W" grade. |
| Apr 11, 2011 | Last day to file for February 2012 Graduation. |
| Apr 11, 2011 | Last day for "INC" grade changes for Fall 2010 to be received by the Office of the Registrar |
| Apr 11, 2011 | Last day to elect a Pass/Fail Option. |
| Apr 14, 2011 | Student Research Day. |
| Apr 17, 2011 - Apr 26, 2011 | Spring Recess. |
| Apr 27, 2011 | Classes resume. |
| Apr 27, 2011 - Apr 27, 2012 | Summer 2011 and Fall 2011 registration begins. |
| May 18, 2011 | Last day of classes. |
| May 18, 2011 | Last day to rescind a Pass/Fail Option. |
| May 19, 2011 | Reading day. |
| May 20, 2011 - May 26, 2011 | Final Examinations. |
| May 27, 2011 | Final Examinations for mass exams only. |
| May 27, 2011 | End of Spring term. |
| May 30, 2011 | Memorial Day - College is closed. |
| Jun 03, 2011 | Commencement. |

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 & 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.

About York College

History



Townsend Harris

The City University of New York (CUNY) owes its existence to Townsend Harris, a New York merchant and politician who founded the Free Academy (later City College) in 1847 to provide free higher education for New York’s burgeoning working population. Over a hundred years later, in 1961, New York passed the State Education Law to deal with a similar increase in students. The law established CUNY to oversee City College and the other units then under the Board of Higher Education, including Hunter, Brooklyn, and Queens Colleges.

Today, the City University of New York is the largest city university system in the world. More than 200,000 students are enrolled at campuses throughout the five boroughs of New York City.

On October 24, 1966, CUNY voted to create a fifth senior college, designated as Alpha College, to serve the city’s growing student population. Its first president, former Queensborough Community College President, Dr. Dumont F. Kenny, quickly renamed the school York College. Kenny hoped to build a leafy, suburban liberal arts school near Fort Totten in Queens. These plans, however, quickly fell through.

York opened its doors in the fall of 1967 without plans for a permanent home. Its first classes took place in rooms rented from the Oakland Jewish Center in Bayside, Queens. An entering class of 371 students, largely white and American-born, and a full-time instructional staff of 50 occupied that site for the first academic year. In May 1968, in response to pressure from local business, community, and religious leaders, the CUNY Board of Higher Education selected Jamaica as the future site of York’s permanent campus.

While York waited for authorization to build the new campus, it relocated to rudimentary quarters throughout Queens. In 1971, when New York City Community College (née New York City College of Technology) president Milton G. Bassin assumed the presidency at York, he found it housed in temporary classrooms on the campus of Queensborough Community College in Bayside. York stayed there for three years before moving to a renovated ex-Montgomery Ward’s department store and other buildings in Jamaica.



“Portables” at QCC Bayside

With the fiscal crisis of the mid-seventies, York’s future seemed uncertain. Jamaica residents, eager to have the college in the neighborhood, pressured the city to keep York’s doors open. In May 1978, the CUNY Board reaffirmed York’s permanence by authorizing construction of the new campus in Jamaica. At the same time, the College underwent expansive curricular development. While York maintained an emphasis on the liberal arts, it began to offer career-related majors in the health professions. The College also opened the Office of Continuing Education to give classes on practical subjects to Jamaica’s residents.



Academic Core Under Construction in 1982

With approval from Governor Hugh Carey, construction on York’s permanent campus began in December of 1980. In 1986, York held its first classes in the new Academic Core. At the time, student enrollment had grown to 4,276. In 1990, York opened the Performing Arts Center and the Health and Physical Education facilities, followed by the athletic fields a year later.

Marcia V. Keizs became the president of York College in 2005 and under her leadership the college has strengthened its academic quality through a variety of initiatives. With the construction of the U.S. Food and Drug Administration’s regional headquarters on York’s campus, students may take advantage of collaborative internships, fellowships, and research with world-class scientists. The CUNY Aviation Institute was established in 2003 to prepare students for success in a rapidly changing industry.



President Marcia V. Keizs

In 2009 alone, York launched the Provost Distinguished Scholars Lecture Series, which attracts renowned writers, scholars, and scientists to speak to the York community. York also hired thirty-three new faculty members and reorganized its 18 academic departments into three schools, the School of Arts and Sciences, School of Business and Information Systems and School of Health and Behavioral Sciences.



York College Today

York today would be unrecognizable to an observer from 1967. The College has grown to more than 7,780 students from 120 countries speaking more than 83 languages. Despite a variety of new programs, including Nursing, Pharmaceutical Science and Journalism, many of York’s biggest changes are to come. The College plans to build major additions to its campus, including a state-of-the-art Academic Village and a CUNY School of Pharmacy, to further improve the opportunities for students.

With the College’s transformation fully underway, York is, more than ever, *On the Move!*

Organization & Makeup of the 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.

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.

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.

Admissions at York College

Applications for Admission

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.

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 baccalaure-

ate 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.

Meeting 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.

Registered Nurses Majoring in Community Health Education

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

Evaluation of Prior College Credits (advanced standing credits)

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, with-

in 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
Email: 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.

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 or email: Infodesk@york.cuny.edu.

Special Admission Programs

SEEK - Search for Education, Elevation & Knowledge

The SEEK Program 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 programs 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 "unofficial" transcripts (Registrar issued) from all postsecondary institutions attended. If the cumulative grade point average is 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 (CAT). All students accepted into degree status 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.

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 29.9 credits must be advised 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.

Procedures for Change of Program & Withdrawals from a Course

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

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/Concurrent Attendance at Another Institution

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

A student with less than an overall C average will not be granted 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 CUNY campuses that were designated as Writing Intensive will transfer with the Writing Intensive designation at York College.

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 register will be limited to three credits 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 department chairperson. 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, are not considered in the six-course total. Courses taken on a pass/fail basis may not constitute the student's General Education Requirements 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 submit-

ted by the instructor and is converted to P or F. In the pass/fail option, a grade of D or better is passing and F is failing.

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.

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..... | \$2300/semester |
| Part-time | \$195/credit |
| Non- degree | \$285/credit |

Undergraduate Non – Resident Students

| | |
|-------------------|--------------|
| Full- time | \$415/credit |
| Part- time | \$415/credit |
| Non- degree | \$575/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 |

University Technology and Consolidation fees

\$183.00/Full-time / \$113.00/Part-time

Senior citizen fee*

\$65/semester or session plus \$15 consolidated service 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 is in a separate booklet on Adult and Continuing Education.

Senior Citizens

Senior citizens who are New York State residents may be enrolled in undergraduate courses on a space available basis, without tuition or fee charges except as indicated below, provided they do so on an audit basis.

Senior Citizens who audit undergraduate courses will not receive degree credit and grades of “AUD” will be assigned.

Senior Citizens will be required to pay a \$65.00 non-instructional charge and a \$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.

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 \$67.15 or the part-time association, University Student Government Fee, and consolidated fee of \$47.15 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 1.) **All courses taken by part-time students will be charged on a credit basis except Developmental and Compensatory courses which will be charged on a contract hour basis. Courses with excess hours due to laboratory or field work will be charged on a credit basis for part-time students. The tuition charged part-time matriculated students on a per credit basis in any one semester may not exceed the semester rate.

Table 1 – Compensatory and Developmental Courses

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

| Status | Associated Fee |
|-----------|-------------------------------|
| Full Time | \$67.15 Association Fee Plus |
| | \$15.00 Consolidated Fee Plus |
| | \$100.00 Technology Fee Plus |

| Status | Associated Fee |
|---------------------------|----------------------------|
| | \$0.85 University Gvt. Fee |
| Total Per Semester | \$183.00 |

| Status | Associated Fee |
|---------------------------|-------------------------------|
| Part-Time | \$47.15 Association Fee Plus |
| | \$15.00 Consolidated Fee Plus |
| | \$50.00 Technology Fee Plus |
| | \$0.85 University Gvt. Fee |
| Total Per Semester | \$113.00 |

Technology Fee: The full-time technology fee of \$100 or the part time fee of \$50 will be added to the bill. The technology fee for the summer session is \$50. 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

Special Fees

1. Application Fee

- Freshman Application Fee - \$65.00
- 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.

- Adding of a course or courses.
- Dropping and adding a course or courses.
- 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:

- The College cancels or withdraws a course, causing the student to make the program change.
- The College changes the hours of the course or makes other substantive changes that provide the student with justification for a change.
- 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., Bur-sar’s receipt.

4. Replacement of Lost Equipment — List price plus 5.00

5. Library Fines Overdue books: (overdue charges not applicable for days on which the Library is not open.)

- a. General circulation books: \$.10 per book each day overdue
- b. Reserve items: \$ 1.20 per hour overdue
- c. Damaged and lost books: Fine to date reported if over-

due, plus replacement cost (or Out-of-Print fee), plus processing cost of \$10.00

d. Overdue videotape: \$ 2.00 per day per videotape

e. Overdue laptops: \$ 0.50 per minute

6. Non-Payment Service Fee — \$15.00 Students who are delinquent in paying tuition and fees will be required to pay this fee in addition and 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 student’s check is tendered to the college as payment of a liability and the check is not honored by the bank upon which the check is drawn (NG check), the student shall be charged a reprocessing fee. A separate \$15 fee will be charged for each check that requires reprocessing. The student’s check writing privileges on campus will be revoked. All subsequent payments must be made in cash, certified check or moneyorder. 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 a non-payment service fee.

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.

| (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 (or its equivalent for the summer) | 75% | 50% |
| Withdrawal during the second week after the scheduled opening date of the session (or its equivalent for the summer) 50% 25% | | |
| Withdrawal during the third week after the scheduled opening date of the session (or its equivalent for the summer) | 25% | None |
| Withdrawal after the completion of the third week of the session (or its equivalent for the summer) | None | None |

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

3. 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: | Cost |
|---|-----------|
| Tuition paid as full-time student | \$2300.00 |
| Tuition as part-time student taking 9 credits (\$195 x 9) \$1755.00 \$1755.00 | \$1755.00 |
| Difference (subject to refund schedule –(see section on Refund Policy) | \$545.00 |
| Assume the 3 credits are dropped within the first week of classes. The student receives a 75% refund of above difference. | \$408.75 |
| Effective tuition as part-time student (full-time tuition less refund) | \$1891.25 |

4. Other specific situations:

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

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

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

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

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

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 Trustee 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

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.

Tuition and Fees Schedule

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.)

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.)

II. 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 \$2.50 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.

III. 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 \$2.50 fare. Personal expenses for a single-person family during this period total approximately \$3,746.

IV. 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

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 Programs State Programs

Tuition Assistance Program

The New York State Tuition Assistance Program (TAP) helps eligible New York residents attending in-state post-secondary 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 eligibilty 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:

1. Students must accrue a specified number of credits. (Table 4.)
2. 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, 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 2010)

| Program: Baccalaureate Program | | | | | | | | | | |
|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| Calendar: Semester | | | | | | | | | | |
| Before Being Certified for This Payment | 1st | 2nd | 3rd | 4th | 5th | 6th | 7th | 8th | 9th | 10th |
| A Student Must Have Accumulated at Least This Many Credits | 0 | 6 | 15 | 30 | 45 | 60 | 75 | 90 | 105 | 120 |
| With At Least This Grade Point Average | 0 | 1.5 | 1.8 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |

Standard of Satisfactory Academic Progress for the Purpose of Determining Eligibility for State Student Aid. Effective 2010-11 for non-remedial students receiving first NYS award payment in 2007-08 and thereafter.

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 |

Federal Student Aid 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.

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:

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

equal to or greater than (.75 (cumulative credits attempted) - 18) or for associate degree programs; accumulated credits equal to or greater than (.875 (credits attempted) - 21).

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 "nonpunitive" administrative withdrawal activity

can result in your having to repay the assistance you received that term.

Incomplete Grades

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

Repeated Courses

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

Federal 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:

1. A U.S. Citizen Or Eligible Non-Citizen Enrolled As An Undergraduate Student In Approved Post-Secondary Institution, Which Is Eligible To Participate In The Fseog Program;
2. Enrolled in an institution which will provide the applicant with additional financial assistance at least equal to the amount of the FSEOG award.

All awards are based on the availability of federal funds.

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

Federal Work Study Program (FWS)

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

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.

To be eligible for a direct loan you must:

1. Be a U.S. citizen or an eligible non-citizen;
2. Be enrolled at least half-time as a degree student in an approved college, university or other post-secondary institution in any of the United States;
3. Not be in default on a prior Federal student loan or owe a repayment on a PELL Grant or any Title IV Student Aid Program;
4. Have filed a FAFSA with the Dept. of Ed and submitted all required documentation to Student Financial Services. All Students must undergo a financial needs analysis to determine eligibility.
5. 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 unsubsidized. 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:

1. 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:

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

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

1. Complete An Exit Interview, &
2. Make Formal Arrangements With The Lending Institution To Begin Repayment.

The following regulations apply:

- 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.
- The Maximum Repayment Period Is 30 Years.
- You May Choose From 4 Payment Plans.

Unsubsidized Direct Loan

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

- The date you submitted the withdrawal form to the Registrar
- Or 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:

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

Veterans are entitled to benefits for full-time study at an approved post- secondary institution for 11/2 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 |
| Three-quarters | \$753 |
| Half-time | \$502 |

Status Less Than 3 Years G.I. Bill

| | |
|----------------------|-------|
| Full-time | \$816 |
| Three-quarters | \$612 |
| Half-time | \$408 |

Status Reservist

| | |
|----------------------|-------|
| Full-time | \$288 |
| Three-quarters | \$216 |
| Half-time | \$143 |

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.

Academic Policies

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.*

Classification and Change of Status

Change of Residency Status

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
 - E - Evening/Weekend
2. *Billing Code:*

B - Matriculated undergraduate students (enrolled after 6/1/92)

C - Student is not matriculated for a degree

3. Admission Code - identifies student admission status:

- 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:

- 0 - Non-degree
- 1 - Lower freshman 0 - 14.9
- 2 - Upper Freshman 15 - 29.9
- 3 - Lower sophomore 30 - 44.9
- 4 - Upper sophomore 45 - 59.9
- 5 - Lower junior 60 - 74.9
- 6 - Upper junior 75 - 89.9
- 7 - Lower senior 90 - 104.9
- 8 - Upper senior 105 - 120+
- 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; however, the student will be liable for tuition and fees in accordance with the Fee Schedule.

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

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

Grading Policies

Grading

In courses which carry college credit (with the exceptions indicated) the student is assigned a final grade (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, WU | - | - |
| 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, WN 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 2009, WN 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 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 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.

INC Grade

A student who, because of extenuating circumstances, has not taken the final examination and/or 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. (See Academic Calendar for exact due date.) Grades received after the deadline will not be processed unless the student has obtained approval from the Committee on Academic Standards.

The grade of INC is not considered in computing the academic index. However, if a grade change is not received by the Office of the Registrar within the ten week time frame, the grade of INC is changed to FIN. This grade

is considered an F grade when computing the academic index. When compiling the Dean's List, 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 Student Development 101-105 courses. 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 official 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 and *WN are not counted, but a WU counts as a failure.

Z Grade

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

WA Grade

The WA 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 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, *WN, Z, P, R, and NC are counted, while FIN, 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, 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 Probation and Retention

Standards for Academic Probation and Retention

The Cumulative Point Value of all previous semesters is determined at the end of each semester, and the academic standards for probation and retention 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.

All Credits Attempted Minimum Cumulative GPA (Index)

0 - 12 1.50

13 - 24 1.75

25 - upward 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 Office of the Registrar 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 Office of the Registrar 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.

Curriculum

The academic program of York College is planned to aid the personal and professional development of each student. It is based on the liberal arts approach, and is designed to provide the opportunity for each student to pursue his or her particular professional interest. The curriculum for the Bachelor of Arts and Bachelor of Science degree options includes general education requirements, requirements for a major area of study, and elective courses. If they wish, students may also select a minor area of study. Each student is encouraged to develop an academic plan with the assistance of his/her faculty advisor.

The purpose of the general education requirements is to contribute to the liberal education of the student. These requirements are flexible and divide into three broad areas: the humanities, the social sciences, and the natural sciences and mathematics. Within a given area, each student chooses courses according to his/her particular interests. Students may choose a major from a variety of liberal arts and professional programs. These are given in the HEGIS listing below. Pre-professional course sequences are available for students who are interested in applying to schools of medicine, dentistry, law, and engineering.

Students may choose their electives from a wide range of courses which will support their major, broaden their interests, or advance their educational and career goals. In addition to the regular classroom approach, the curriculum at York involves more flexible approaches for learning, including field work experiences, independent study options, auto-tutorial programs, and on-line courses. Cooperative Education work experiences are required in some majors and optional in others.

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 which must then be approved by the Office of the Registrar. 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 Require-

ments, 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 Course Requirement

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 up-

per 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)

- MadisonIn-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:

- A "C" average in all York College courses and,
- An overall "C" average for the courses in their major disciplines,

A student can not graduate with an unresolved grade (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 page19 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 (Liberal Arts) after the course number. Courses identified with (✕) CAN-NOT 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.

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 (placement by Foreign Language Department) | | 0 - 8.0 |
| II. Humanities | | 9.0 |
| A) Literature — 200 | | |
| B) History and Philosophy - one course from the following: | | |
| 1. History 100,108,113,201,202,204,257,275,276 | | |
| 2.Philosophy 102, 103,121 | | |
| 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 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 |
| Remainder of Credits in Major and Free Electives** | | |
| Baccalaureate Total Credits = | | 120 Credits |

HEGIS Code & Program Names

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 start in their respective areas in this bulletin. Refer to the index in the back of the book or the respective school your major is located in.

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 Ed.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

Resources for Students

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 implemen-

tation 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, ¾ 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 videoconference instruction is possible through an ATM line to the CUNY-wide Multimedia Distribution System (MDS). The Distance Learning lab can send and receive live videoconferences to all CUNY senior colleges and some community colleges. It can also be connected to equipped colleges and universities nationally through ISDN lines. The Lab includes a presentation room with a capacity of about 20 participants and a control room. Material sources include a 36” touch screen connected to an Internet ready com-

puter, 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 being upgraded to a CD-ROM language learning facility.

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

Library Services

The York Library provides a broad, balanced collection for 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 180,000 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; 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 website. 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 borrowed. With the exception of reference and reserve materials, all books 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 or after logging in with a York Network Account (VPN). Each semester, York ID cards must be validated at the G-Wing Circulation Desk.

Library faculty teach information literacy classes. Professors should contact the Library to arrange a class whenever students must write a paper, complete a project, or

give an oral presentation. One-on-one research assistance is also available at the Library's Reference Desk.

Food and drinks are not allowed in the Library. In the Library, all cell phones and electronic devices should be set on silent or vibrate mode.

The Library is open twelve months per year. 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 Winter and Summer session hours and 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.

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 114Telephone: 718-262-3766 Email: clip@York.cuny.eduDirector: Hamid KheriefAssistant 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, and the NYS Small Business Development Center.

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.

BUS230 – Introduction to the Aviation Business

BUS235 – Airport Planning and Management

BUS330 – Aviation Operations

MKT353 – Aviation Marketing Economics

CUNY Aviation Institute at York College

Office: AC 4G04E Telephone: 718-262-2829 Email: aviation@york.cuny.edu

www.york.cuny.edu/aviation

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.

Services For 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 notetakers, 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, Room1F01.

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 Center and Men's Center

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: Statement of Philosophy

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. 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 pm. Potential athletes should attempt to register for early classes. Student-athletes are required to register for and maintain the minimum number of credits (12 credits/

hours) during the competitive season. Athletes should also register for independent study, Physical Education 291-294 (one course per sport season). A maximum of four credits is permitted. Student-athletes must be medically and academically cleared before participating on any intercollegiate athletic team.

Sports Medicine

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

Intramurals at York College

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

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.

Financial Aid - Scholarships

Computer & Mathematics Scholar Support Coalition (CMSSC):

(Stipend of \$3,125 per year for each participating student) The Computer and Mathematics Scholar Support Coalition is funded by the National Science Foundation with the goal of providing a community learning group to encourage retention and graduation for students majoring in mathematics, information systems management, or computer science.

The activities organized for the Scholars include an annual open house, monthly lunch meetings of scholars, Mathematics and CS faculty, and partners in high tech-

nology 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 Department of Mathematics and Computer Studies.

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 our 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.

Honors Program

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.

Benefits

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

McNair Scholars Program:

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

The McNair Scholars Program, whose ultimate goal is to effectively prepare its participating students for doctoral study and future careers in research and college teaching, will provide each student with faculty mentoring, research opportunities and scholarly activities, GRE preparation, assistance in securing admission to graduate programs, and other academic and networking activities. Each McNair Scholar can receive a stipend of up to \$2,400 per year. Any student meeting the following eligibility criteria is encouraged to apply for the McNair Program:

- Enrolled in a degree program;
- Maintains a minimum gpa of 3.0;
- Completed 28-80 credits;
- Has a strong interest in graduate study;
- Is an american citizen or permanent resident or in other eligible legal status;
- Is a low-income and first-generation college student or, a member of a group under-represented in graduate education, i.E., Blacks, hispanics, american indians or alaskan natives, as defined by federal guidelines.

Interested students should contact either Mr. Patrick Gao at 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.

Welcome to the School of Arts and Sciences.

Through its academic departments and centers the school offers undergraduate degrees (BA and BS) in many areas of study in the arts, mathematics and sciences. These programs include courses in the traditional liberal arts and sciences disciplines, and in selected pre-professional and professional programs.



Panayiotis Meleties, Ph.D. Dean

Courses and programs at the School of Arts and Sciences are designed to provide a challenging education with appropriate classroom and laboratory work, research and internship experiences. Students in the School of Arts and Sciences programs are challenged and mentored by exceptional faculty teacher-scholars to develop and grow critical thinking, effective oral and written communication, problem solving, ethical decision making and information technology skills that will become the foundation of their success in a changing global environment.

With outstanding faculty and state of the art facilities the School of Arts and Sciences constantly introduces new programs and courses to prepare its students for traditional and new careers and professions.

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.

For more information, please visit the website of one of our departments.

Warm Regards,

Panayiotis Meleties, Ph.D.
Dean, School of the Arts & Sciences

Department of Biology

Chair: G. McNeil

Professor: L. Levinger

Associate Professors: C. Adams, I. Arsov, G. Girardi, M. MacNeil

Assistant Professors: E. Alter, L. Beaton, A. Christensen S. Hua, A. Simon

Substitute Assistant Professor: M. Di Bonaventura

Doctoral Lecturers: J. Casey, A. Criss

Professor Emeriti: L. Lewis, J. Schlein

Academic Core 4E03 - (p)718-262-2700 (f)718-262-2369

www.york.cuny.edu/biology

biology@york.cuny.edu

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.

| Biology Major | | Credits |
|--|-------------------------------------|---------|
| Required foundation courses: | | |
| BIO201 | Biological Principles I | 4 |
| BIO202 | Biological Principles I | 4 |
| BIO301 | Molecular Biology and Biotechnology | 4 |
| BIO307 | Biostatistics | 3 |
| BIO486-489 | Special Topics in Biology | 2 |
| 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 |
| II Organismic and Environmental Biology/Choose 9 credits chosen from the following | | |

| Biology Major | | Credits |
|--|---|---------|
| 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 |
| III Cell and Molecular Biology Choose 7.5 - 10 credits from the following: | | |
| BIO320 | Cell Biology | 4.5 |
| BIO412 | Biochemistry or Chemistry | 3 |
| BIO415 | Biochemistry and Molecular Biology | 2 |
| BIO444 | Genetics | 4.5 |
| BIO452 | Developmental Biology | 4.5 |
| BIO465 | Microbiology | 4.5 |
| BIO466 | Immunology | 4.5 |
| BIO480 | 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.

*** Biology 486 - 459 are the upper division WI courses for Biology majors.

†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)

| Biology Minor | | Credits |
|--|-------------------------------------|---------|
| Effective Fall 2010 | | |
| Required Courses | | 6 |
| BIO301 | Molecular Biology and Biotechnology | 4 |
| BIO487 or 488 | Biology Special Topics | 2 |
| Organismic and Environmental Biology/One course from the following | | |
| BIO231 | Biology of Plants | 4.5 |
| BIO308 | Invertebrate Biology | 4.5 |
| BIO309 | Biology of the Chordates | 4.5 |

| Biology Minor | | Credits |
|--------------------------------------|---|---------|
| BIO325 | Histology | 4.5 |
| BIO403 | Ecology | 4.5 |
| Cell and Molecular Biology | | 3 - 5 |
| Either One course from the following | | |
| BIO320 | Cell Biology | 4.5 |
| BTEC352 | Bioinformatics | 3 |
| BIO452 | Developmental Biology | 4.5 |
| BIO465 | Microbiology | 4.5 |
| BIO466 | Immunology | 4.5 |
| BIO480 | Theory and Experimentation in Biotechnology | 5 |
| OR | | |
| BIO412 | Biochemistry | 3 |
| and | | |
| BIO415 | Biochemistry and Molecular Biology | 2 |

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 1D12, (718) 262-2450. Email: teacher-ed@york.cuny.edu

| Teaching Certification in Biology 7-12 - Major | | Credits |
|--|----------------------------------|---------|
| BIO201 | Biological Principles I | 4 |
| BIO202 | Biological Principles II | 4 |
| BIO307 | Biostatistics | 3 |
| BIO343 | Laboratory Exercises in Genetics | 2 |
| BIO344 | Molecular and General Genetics | 4 |
| BIO320 | Cell Biology | 4.5 |
| BIO334 | Comparative Physiology | 4.5 |

| Teaching Certification in Biology 7-12 - Major | | Credits |
|--|---|---------|
| BIO403 | Ecology | 4.5 |
| BIO412 | Biochemistry | 3 |
| CHEM102 | Chemical Principles II | 5 |
| CHEM231 | Organic Chemistry | 3 |
| CHEM232 | Techniques in Organic Chemistry I | 2 |
| PHYS151 | University Physics I (Physics 101 can replace PHYS 151) | 5 |
| PHYS152 | University Physics II (Physics 102 can replace PHYS 152) | 5 |
| 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 |

General Ed requirements must include CHEM 101 & MATH 121

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. 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).

| Biotechnology - Major | | Credits |
|---|--|---------|
| Effective Fall 2010 | | |
| 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 |
| BIO301 | Molecular Biology and Biotechnology | 4 |
| CHEM241 | Instrumental Methods | 3 |
| BIO412 | Biochemistry | 3 |
| BTEC480 | Theory and Experimentation in Biotechnology*** | 5 |
| BTEC489 | Special Topics in Biotechnology*** | 2 |
| BTEC352 | Bioinformatics | 3 |
| Biotechnology Options | | |
| Choose 7.5-10 Credits chosen from the following | | 7.5-10 |
| BIO307 | Biostatistics | 3 |
| BIO320 | Cell Biology | 4.5 |
| BIO415 | Biochemistry and Molecular Biology | 2 |
| BIO444 | Genetics | 4.5 |
| BIO452 | Developmental Biology | 4.5 |
| BIO465 | Microbiology | 4.5 |
| BIO466 | Immunology | 4.5 |
| BTEC350 | Computational Biology | 3 |

Biotechnology majors must take Chemistry 101 and Mathematics 121 (or Mathematics 184) to fulfill their General Education Requirements in Math and Natural Sciences.

** Physics 101 may be substituted for Physics 151 and Physics 102 may be substituted for Physics 152 (by advisement).

*** BTEC 480 and 489 are Upper Division WI courses in the Biotechnology major.

Biotechnology (Minor)

| Biotechnology (Minor) | | Credits |
|-----------------------|---|---------|
| Effective Fall 2010 | | |
| Required Courses | | 16 |
| BIO301 | Molecular Biology and Biotechnology | 4 |
| BIO412 | Biochemistry | 3 |
| BIO487 | Special Topics in Biology | 2 |
| BIO480 | Theory and Experimentation in Biotechnology | 5 |
| BTEC489 | Special Topics in Biotechnology | 2 |

Department of Chemistry

Chair: L. Johnson

Professors: D. Chakravarti

Associate Professor: R. Desamero

Assistant Professors: E. Chang, S. Fearnley, M. Holford, J. Lee, A. Profit, D. Robie, Y. Small

Doctoral Lecturer: C. Foster

Professors Emeriti: H. McGee, L. Richards, P. Scheiner, P. Young

Academic Core 3Fo1 - (p)718-262-2650 (f)718-262-2652

www.york.cuny.edu/chemistry

chemistry@york.cuny.edu

Chemistry (BS)

HEGIS CODE 1905

The Chemistry Program has three principal objectives:

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

The Chemistry major provides the student with a sound foundation in the theoretical and experimental principles of chemistry. The course of study includes the areas of analytical, 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.

| Chemistry - Major | | Credits |
|--------------------------------|------------------------------------|---------|
| 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 |

| Chemistry - Major | | Credits |
|-------------------------------------|---|---------|
| 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:

1. Successful completion of the Chemistry Major Discipline requirements and a 3.0 average in all Chemistry courses.
2. Successful completion of 6 credits of 400-level courses in the Chemistry 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.
3. Certification by the Faculty of the Chemistry Department.

Chemistry (Minor)

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.

| Chemistry (Minor) | | Credits |
|-------------------|-----------------------------------|---------|
| Required Courses | | 20 |
| CHEM231 | Organic Chemistry I | 3 |
| CHEM232 | Techniques of Organic Chemistry I | 2 |

| Chemistry (Minor) | | Credits |
|--------------------------------|---|---------|
| 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 |

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.

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. Email: teach-ed@york.cuny.edu

| Teaching Certification in Chemistry 7-12 (BS) | | Credits |
|---|------------------------------------|---------|
| Effective Fall 2010 | | |
| 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 |
| Foundations Sequence | | 12 |

| Teaching Certification in Chemistry 7-12 (BS) | | Credits |
|---|---|---------|
| EDUC280 | Child and Adolescent Development for Teachers | 3 |
| EDUC283 | Educational Psychology: Effective Teaching and Learning | 3 |
| EDUC284 | Field Experience in Teaching and Learning | 1 |
| AC230 | Teaching with Multimedia Technology** | 2 |
| Choose one of the following | | |
| SOC202 | Major Ideas and Issues in Education | 3 |
| PHIL202 | Major Ideas and Issues in Education | 3 |
| Professional Education Sequence | | 6 |
| 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 |

*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.

**Students who do not evidence technology competencies may need to take AC 101 in order to graduate

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.

Pharmaceutical Science (BS)

HEGIS CODE I 2 I I .00

The B.S. Pharmaceutical Science will give those who do this degree program the knowledge and skills to work in the flourishing New York and tri-state-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 Science must meet the General Education Requirements for a Chemistry Major plus complete three mandatory Pharmaceutical Science courses, a 3-credit Chemistry course, as well as an elective Pharmaceutical Science course.

| Pharmaceutical Science (BS) | | Credits |
|---------------------------------|---|---------|
| Major Requirements | | 70-78 |
| MATH122 | Analytic Geometry and Calculus II | 4 |
| BIO201 | Biological Principles I | 4 |
| BIO202 | Biological Principles II | 4 |
| BIO265 | Clinical Microbiology | 3 |
| 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 |
| 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 | 5 |
| PHS301 | Pharmaceutics | 3 |
| PHS350 | Pharmaceutical Manufacturing | 3 |
| PHS401 | Pharmacology | 3 |
| Major Elective Course | | 3 |
| Choose one of the following | | |
| CHEM330 | Structure and Mechanism in Biochemistry | 3 |
| CHEM412 | Biochemistry | 3 |
| Pharmaceutical Science Elective | | 3 |
| Choose one of the following | | |
| PHS480 | Research in Pharmaceutical Science | 3 |
| PHS490 | Internships in Pharmaceutical Science | 3 |

Department of Earth & Physical Sciences

Chair: S. Schleifer

Professor: S. Borenstein

Associate Professors: N. Khandaker, T. Paglione

Assistant Professors: R. Dhar, K Lynch, J. Popp, D. Wolosin

Substitute Assistant Professor: J. Stolte

Professors Emeriti: D. Jain, M. Spergel

Academic Core 2F09 - (p)718-262-3751 (f)718-262-3751

www.york.cuny.edu/physical-sciences

earth@york.cuny.edu

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.

| Astronomy (Minor) | | Credits |
|---|---|---------|
| Minor Design for Astronomy | | 15 |
| ASTR301 | Observational Astronomy | 4 |
| Astronomy* Courses at the 200-level or above 11 *Suitable courses from other disciplines may be substituted | | |
| 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 |

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

Environmental Health Science (BS)

HEGIS CODE 1299

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.

| Environmental Health Science (BS) | | Credits |
|--|---|---------|
| Major Discipline Requirements* | | 60.5 |
| Required Basic Science Courses | | |
| BIO201 | Biological Principles I | 4 |
| BIO202 | Biological Principles II | 4 |
| BIO465 | 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. Majors are also strongly recommended to have at least 30 credits in one science of any discipline oth-

er than those courses listed in Required Environmental Health Science Courses (III). Since Physics 152 is a pre-req. 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 Div. of Occupational Safety and Health.

Environmental Science (Minor)

HEGIS CODE I 299

| Environmental Science (Minor) | | Credits |
|--|---------------------------------------|---------|
| Effective Fall 2010 | | |
| Requirements for the Environmental Science Minor | | 15 |
| GEOL115 | Energy, Resources and the Environment | 3 |
| BIO110 | Environmental Biology | 3 |
| Choose one | | |
| HPEH110 | Science, Technology and Environment | 3 |
| or | | |
| HPEH140 | Environmental Management | 3 |
| Choose one | | |
| GEOL282 | Weather & Climate | 3 |
| or | | |
| PHY282 | Weather & Climate | 3 |
| GEOL341 | Ground Water Hydrology | 2 |
| GEOL349 | Assessment of Environmental Impact | 1 |

Geology (BS)

HEGIS CODE I 914

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.

| Geology (BS) | | Credits |
|--|---|-----------|
| Major Discipline Requirements | | 54.5-56.5 |
| Required Foundation Courses | | 34.5 |
| GEOL140* | Our Earth | 3 |
| CHEM102 | Chemical Principles II | 5 |
| GEOL211 | Structural Geology | 4 |
| GEOL217 | Earth History with Paleontology | 5 |
| GEOL225 | Mineralogy | 5 |
| GEOL332 | Optical Mineralogy | 2 |
| GEOL323 | Field Methods | 1.5 |
| GEOL334 | Petrology | 4 |
| GEOL425 | Field Mapping | 4 |
| Choose 8 credits from the following electives: GEOLOGY ELECTIVES | | |
| GEOL282 | Weather and Climate | 3 |
| GEOL308 | Geomorphology | 3 |
| GEOL340 | Remote Sensing and Air Photo Interpretation | 2 |
| GEOL341 | Ground Water Hydrology | 2 |
| 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 |

All Geology majors must take Chemistry 101 to fulfill the General Education Requirement.

* Geology majors may elect to take Physics 101 and Physics 102, if offered, in place of Physics 151 and Physics 152. Geology 110 and 207 may be substituted for Geology 140. Geology 213 and 305 may be substituted for Geology 217.

** 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 for Mathematics 121.

B.S. with Honors in Geology

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

Requirements for Graduation with Honors:

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

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 1D12, (718) 262-2450. Email: teachered@york.cuny.edu

| Geology - Earth Science Education 7-12 (BS) | | Credits |
|---|---------------------------------------|-------------|
| Effective Fall 2010 | | |
| Major Discipline Requirements | | 74.5 - 75.5 |
| 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 |
| GEOL282 | Weather and Climate | 3 |
| GEOL411 | Sedimentation | 3 |
| CHEM102 | Chemical Principles II | 5 |
| PHYS151 | University Physics I | 5 |

| Geology - Earth Science Education 7-12 (BS) | | Credits |
|---|---|---------|
| 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 |
| EDUC283 | Educational Psychology: Effective Teaching and Learning | 3 |
| EDUC284 | Field Experience in Teaching and Learning | 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.

*Students who do not evident technology competencies may need to take AC101 in order to graduate.

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 Univ. 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.

| Physics (BS) | | Credits |
|-------------------------------------|------------------------------------|---------|
| 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 |
| Electivestwo at 400 level or higher | | 6 |
| | PHYS | |
| | ASTRO | |

Medical Physics Option

Physics majors desiring the Medical Physics Option will follow the physics major course sequence and elect six credits of medical physics in the senior year. The medical physics electives are offered in conjunction with an affiliated medical center.

Pre-Medical/Pre-Dental Physics Major

Physics Majors who wish to follow the Pre-Medical or Pre-Dental Physics Sequence should complete Biology 201 and 202 (or the equivalent) and Organic Chemistry and follow the Physics Major sequence with the exception of the following courses: Mathematics 311, Physics 301, 441, and Physics Elective.

B.S. with Honors in Physics

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

Requirements for Graduation with Honors:

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

*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.

| Pre-Engineering (Special Program) | | Credits |
|-----------------------------------|--|---------|
| Suggested Program Sequence | | |
| Fall | | |
| MATH121 | Analytic Geometry and Calculus I | 4 |
| PHYS151 | University Physics I | 5 |
| ENG125 | Introduction to College Writing* | 4 |
| | 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 |
| Fall | | |
| 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 |

| Pre-Engineering (Special Program) | | Credits |
|-----------------------------------|---------------------------|---------|
| 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 |

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

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.

- 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.

* 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: L. Grasso

Professors: H. Andretta, S. Hux, G. Lewis

Associate Professors: V. Anderson, C. Coleman, C. Haller, D. McGee, J. Papa Jr., T. Rooney,

Assistant Professors: S. Bisla, J. Hall, W. Hughes, S. Inayatulla, K. Josephs, T. Moore, M. Namphy, H. Robinson, D. Rowe

Doctoral Lecturer: L. Cao

Lecturers: J. Cline, M. Corcoran, D. DiToro, P. Milanes, C. Serant, K. Wolf

Substitute Lecturers: P. Kirkham

Professor Emeriti: A. Cooper, C. Kirkpatrick

Academic Core 2A16 - (p)718-262-2470 (f)718-262-2896

www.york.cuny.edu/english

english@york.cuny.edu

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; 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.*

| English (BA) | | Credits |
|---|--|---------|
| Effective Fall 2010 | | |
| Major Discipline Requirements | | 36 |
| I. Required Foundation Courses | | 6 |
| ENG209 | Understanding Poetry | 3 |
| ENG211 | Foundations of Western Literature | 3 |
| II. Additional Required Courses | | 9 |
| 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: | | |

| English (BA) | | Credits |
|---|--|---------|
| 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 Choose at least 4 Emphasis Courses from one of the following Emphases | | 12 |
| 1. Literature Emphasis | | |
| ENG311 | Literary Studies | 3 |
| Three other courses in literature at the 300 level or higher | | 9 |
| 2. Language Emphasis | | |
| Either the following four courses OR three of the following courses and one other course designated as a Language Emphasis course** | | |
| ENG270 | Introduction to English Grammar and Style | 3 |
| ENG370 | Advanced English Grammar and Style | 3 |
| ENG371 | History of the English Language | 3 |
| ENG375 | English Sociolinguistics | 3 |
| 3. Writing Emphasis One course from: | | |
| ENG286 | Introduction to Creative Writing | 3 |
| Three additional courses in writing chosen in consultation with the major advisor | | 9 |
| IV. Electives (6 credits) | | |
| Two additional courses in English at the 200 level or higher | | 6 |
| V. Seminar (3 credits)*** | | |
| One course from: | | |
| 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 (Normally taken during the Senior year) | | 6 |
| Honors Seminars | | |
| ENG492 | Honors Research in English | 3 |
| ENG493 | Honors Research in English | 3 |

* None of these courses may be counted toward both the Literature foundation and the Literature emphasis.

** Courses must be approved by the Department Chair

*** Normally taken during Senior year, Seminar courses fulfill the upper-division Writing Requirement.

Note: All English majors must include Cultural Diversity 210 toward fulfillment of General Education requirements.

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) | | Credits |
|--|----------------------------------|---------|
| 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 |

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) | | Credits |
|---|----------------------|---------|
| 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.

| Journalism (BA) | | Credits |
|--|--|---------|
| Major Requirements | | 39-42 |
| I. Required Foundation Courses(Normally taken during Sophomore year) | | 6 |
| JOUR280 | Introduction to Journalism | 3 |
| JOUR281 | Introduction to Feature Writing | 3 |
| II. Additional Required Courses(Normally taken during Sophomore and Junior year) | | 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 |

| Journalism (BA) | | Credits |
|--|---|---------|
| III. Electives Choose a minimum of four courses (in consultation with an advisor) from the following, with at least one course at the 300-level: | | 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* Journalism Majors may take up to 6 credits of Fieldwork (3 credits for each semester of their senior year). | | 3-6 |
| Choose one course from the following: | | |
| JOUR481 | Broadcast Journalism Fieldwork | 3 |
| JOUR483 | News Writing and Reporting Fieldwork | 3 |
| JOUR486 | Publishing Fieldwork | 3 |
| Senior Project | | |
| Seniors will present a cumulative portfolio for review upon completion of fieldwork. | | |
| V. Recommended Elective Concentrations**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 |
| 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 and 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 |

*Senior status and successful completion of 27 credits toward major required.

**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.

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: Newswriting & Reporting, Broadcast Journalism, and Book & Magazine Publishing. Work on a York College publication is required. All students proposing to minor in Journalism should apply in the English Department Office, where they will be assigned an advisor.

| Journalism (Minor) | | Credits |
|---|---------------------------------|----------------|
| Effective Fall 2010 | | |
| Requirements | | 15 |
| JOUR280 | Introduction to Journalism | 3 |
| JOUR281 | Introduction to Feature Writing | 3 |
| Any 3 JOUR courses chosen in consultation with an advisor from the Journalism Program | | |

Writing Program (Special Program)

The Writing Program administers the College's upper-division writing requirement and offers Writing 301, 302, and 303, courses that are designed to help students acquire the research and writing abilities needed in the work of their major, for graduate studies, and in their professional careers.

All students entering the College in Fall 1996 or later (including transfer students) are required to 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.

| Writing Program (Special Program) | | Credits |
|--|---|----------------|
| WRIT301 | (Lib Arts) Research and Writing for the Major | 3 |
| WRIT302 | (Lib Arts) Research and Writing for the Sciences, Mathematics, and Technology | 3 |
| WRIT303 | (Lib Arts) Research and Writing for Professional Programs | 3 |

Department of Foreign Languages, ESL & Humanities

Chair: M. Ballantyne

Professors: F. Gutierrez, S. Rivera-Valdes, L. Serrano

Associate Professors: M. Drago, J. Francois, E. Meddeb, E. Vasquez

Assistant Professor: H. Bahri, K. Fernandez, F. Salek, S. Ghelli, Z. Saad

Lecturers: A. Barnes, J. Ramos

Academic Core 3Co8 - (p)718-262-2430 (f) 718-262-2087

www.york.cuny.edu/languages

fleshlum@york.cuny.edu

French (BA)

Hegis Code 1102

The French Discipline offers a two-track sequence of three courses at the intermediate level, one for native speakers of French and one for non-native speakers of French.

The goal of this sequence (French 103, 104 and 105) is to provide students with the instruction and practice they require in order to be successful in French 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 French 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. French majors can also design a program that will allow them to pursue careers in public service and business.

| French (BA) | | 36 Credits |
|---|--------------------------------------|------------|
| Choose one of the following | | 3 |
| FREN217 | Advanced Composition and Grammar | 3 |
| FREN218 | Stylistics | 3 |
| FREN235 | French Linguistics | 3 |
| Required Courses | | 6 |
| FREN231 | Survey of French Literature I | 3 |
| FREN232 | Survey of French Literature II | 3 |
| Choose one of the following | | 3 |
| FREN334 | Literature of the French West Indies | 3 |
| FREN335 | Literature of French Speaking Africa | 3 |
| 2. Eight additional French and/or Creole Elective courses at the 200 level and above and can including WLIT 205, 206 and 210. One course from the following can be used as a substitute: HUM 253, AAS 341, or SOC 235 | | 24 |

French & Francophone Studies (Minor)

The French/Francophone minor is designed to provide students with a better understanding of French & Creole languages and Francophone culture.

This minor is directed at those students who wish to further develop their language proficiency and can be structured to complement the individual's personal and professional goals.

| French & Francophone Studies (Minor) | | Credits |
|--|--|---------|
| Required courses | | 6 |
| FREN106 | Intermediate French II | 3 |
| FREN232 | Survey of French Literature II | 3 |
| Select Three Courses from the Following List | | 9 |
| Language | | |
| CRE205 | Advanced Creole Writing & Composition | 3 |
| FREN217 | Advanced Grammar & Composition | 3 |
| FREN200 | Commercial French | 3 |
| FREN240 | Translation | 3 |
| CRE241 | Translation | 3 |
| Literature | | |
| FREN206 | Introduction to Haitian Literature | 3 |
| FREN208 | Masterpieces in Creole Literature | 3 |
| FREN323 | The Novel in the 19th Century | 3 |
| FREN325 | The Age of Enlightenment | 3 |
| FREN328 | The 20th Century Novel and Theatre II | 3 |
| FREN330 | The Age of Classicism | 3 |
| FREN334 | Literature of the French West Indies | 3 |
| FREN335 | Literature of French Speaking Africa | 3 |
| FREN110 | Intensive Elementary French for Health Professions | 3 |

Creole (Minor)

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

| Creole (Minor) | | Credits |
|-------------------------------|---|---------|
| Required Creole Courses | | 15 |
| CRE241 | Translation I | 3 |
| CRE242 | Translation II | 3 |
| CRE208 | Masterpieces in Haitian Creole Literature | 3 |
| Two additional Creole Courses | | 6 |

Italian Studies (Minor)

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.

| Italian Studies (Minor) | | Credit |
|--|---------------------------------------|--------|
| Minor Discipline Requirements | | 15 |
| Language | | 6 |
| ITAL106 | Intermediate Italian II | 3 |
| ITAL230 | Intermediate Conversation | 3 |
| Literature (courses taught in English) Choose 2 courses from the following list: | | 6 |
| WLIT211 | Italian Theater in Translation | 3 |
| ITAL353 | Italian Culture and Civilization | 3 |
| ITAL356 | A Major Italian Author in Translation | 3 |

| Italian Studies (Minor) | | Credit |
|---|---|--------|
| ITAL405 | Seminar in Italian Literature | 3 |
| Cultural Studies Choose one course from the following list: | | 3 |
| CLDV210 | Western Civilization | 3 |
| FA292 | Early Renaissance Art | 3 |
| FA390 | High Renaissance/Late 16th Century Art | 3 |
| WLIT201 | The Literature of the Western World through the Renaissance | 3 |
| HUM250 | The Italian Experience in the United States | 3 |
| POL268 | Political Theory II Machiavelli to Marx | 3 |
| HUM230 | Fairness and Equity | 3 |

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

Latin American Studies (Minor)

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.

| Latin American Studies (Minor) | | Credits |
|--|--|---------|
| 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 (Minor)

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.

| Puerto Rican Studies (Minor) | | Credits |
|--|--|---------|
| 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: one 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 |

* 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.

Spanish (BA)

HEGIS CODE 1105

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.

| Spanish (BA) | | Credits |
|-------------------------------|---|---------|
| Major Discipline Requirements | | 36 |
| Foundation Courses | | 24 |
| SPAN200 | Introduction to Literary Theory and Analysis | 3 |
| SPAN208 | Advanced Grammar | 3 |
| SPAN209 | Composition and Style | 3 |
| SPAN210 | Spanish Linguistics | 3 |
| SPAN351 | Cervantes | 3 |
| SPAN413 | Hispanic Civilization | 3 |
| Choose one of the following | | |
| SPAN201 | Hispanic-American Literature from its Origin Through Modernismo | 3 |
| SPAN202 | Hispanic-American Literature after Modernismo | 3 |
| Choose one of the following | | |
| SPAN221 | Spanish Literature to 1700 | 3 |
| SPAN222 | Spanish Literature 1700-Present | 3 |
| Elective Courses | | 12 |
| | Select any 2 courses in the SPAN 200 Level or above | 6 |
| | Select any 2 courses in SPAN 300/400 Level | 6 |

Departmental Honors

Students with a 3.0 average in Spanish courses in the major may qualify for departmental honors by completing 6 additional credits on the 400 level and completing a substantial individual research project in a designated seminar.

Spanish (Minor)

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.

| Spanish (Minor) | | Credits |
|---|--|---------|
| 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 |

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. 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.

| English as a Second Language (ESL) | | Credits |
|------------------------------------|---|---------|
| ESL145 | Academic Reading & Writing for Non-native Speakers I | 2 |
| ESL150 | Academic Reading & Writing for Non-native Speakers II | 2 |

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.

| Spanish For Professional Purposes | | Credits |
|-----------------------------------|---|---------|
| Required Credits | | 18 |
| Required Courses | | 9 |
| SPAN208 | Advanced Grammar | 3 |
| SPAN209 | Composition and Style | 3 |
| SPAN213 | Hispanic Cultures in the U.S. | 3 |
| Choose 3 of the following | | |
| 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 |
| SPAN419 | Seminar on Writing | 3 |

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

Teaching Certification in Spanish 7-12 (BA)

HEGIS CODE 1105.01

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.

| Teaching Certification in Spanish 7-12 (BA) | | Credits |
|--|---|---------|
| Effective Fall 2010 | | |
| Spanish Requirements | | 36 |
| SPAN200 | Introduction to Literary Theory and Analysis | 3 |
| SPAN208 | Advanced Grammar | 3 |
| SPAN209 | Composition and Style | 3 |
| SPAN210 | Span Linguistics | 3 |
| SPAN351 | Cervantes | 3 |
| SPAN413 | Hispanic Civilization | 3 |
| Choose one of the following | | |
| SPAN201 | Hispanic-American Literature from its Origin Through Modernismo | 3 |
| OR | | |
| SPAN202 | Hispanic-American Literature After Modernismo | 3 |
| Choose one of the following | | |
| SPAN221 | Spanish Literature to 1700 | 3 |
| OR | | |
| SPAN222 | Spanish Literature Literature 1700-Present | 3 |
| Select any 4 courses in the SPAN 300/400 Level | | 12 |
| Education Course Requirements | | 26 |
| Foundation Sequence | | 12 |
| EDUC280 | Child and Adolescent Development for Teachers | 3 |
| EDUC283 | Educational Psychology: Effective Teaching and Learning | 3 |
| EDUC284 | Field Experience in Teaching and Learning | 1 |
| Choose One | | |
| PHIL202 | Major Ideas and Issues in Education | 3 |
| Or | | |
| SOC202 | Major Ideas and Issues in Education | 3 |
| Professional Education Sequence | | 6 |
| EDUC340 | Literacy Instruction inside Middle and Secondary Schools | 3 |
| EDUC371 | Curriculum and Methods in the Secondary School: Spanish | 3 |
| AC230 | Teaching with Multimedia Technology* | 2 |
| Student Teaching and Student Teaching Seminar | | 8 |
| EDUC458 | Supervised Teaching, Spanish, Grades 7-9 | 4 |
| EDUC459 | Supervised Teaching, Spanish, Grades 10-12 | 4 |

* Students who do not evidence technology competencies may need to take AC101 in order to graduate

Women's Studies (Minor)

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.

| Women's Studies (Minor) | | Credits |
|--|--|---------|
| Course Requirements | | 15 |
| Required Courses | | 6 |
| 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 |

World Literature (Minor)

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.

| World Literature (Minor) | | Credits |
|--|---|---------|
| Course Requirements | | 15 |
| Introduction to Literary Analysis and Theory choose one of the following | | 3 |
| ENG311 | Literary Studies | 3 |
| SPAN200 | Introduction to Literary Analysis | 3 |
| Regional Literatures (Choose two, from different disciplines) | | 6 |
| AAS220 | West African Literature in English | 3 |
| AAS221 | East and Southern African Literature | 3 |
| FREN334 | Literature of the French Speaking West Indies | 3 |
| FREN335 | Literature of French Speaking Africa | 3 |
| SPAN301 | The Literature of the Spanish Speaking Caribbean up to Modernismo | 3 |
| SPAN302 | The Literature of the Spanish Speaking Caribbean after Modernismo | 3 |
| SPAN307 | Contemporary Latin American Literature | 3 |
| WLIT201 | Literature of the Western World Through the Renaissance | 3 |
| WLIT205 | Introduction to Francophone Literature | 3 |
| WLIT206 | Introduction to the Literature of the Caribbean | 3 |
| WLIT207 | Introduction to Latin American Literature | 3 |
| National Literatures (Choose one) | | 3 |
| ENG328 | Medieval and Renaissance Literature | 3 |
| ENG345 | Twentieth Century British Literature | 3 |
| ENG350 | American Voices and Visions I | 3 |
| FREN206 | Introduction to Haitian Literature | 3 |
| SPAN221 | Spanish Literature to 1700 | 3 |

| World Literature (Minor) | | Credits |
|---|---|---------|
| SPAN222 | Spanish Literature from 1700 | 3 |
| WLIT210 | French Masterpieces in Translation | 3 |
| WLIT211 | Italian Theatre in Translation | 3 |
| WLIT212 | Masterpieces of Spanish Literature in Translation | |
| The Literature of Women and Ethnic Minorities(Choose one) | | 3 |
| ENG392 | African-American Literature | 3 |
| ENG395 | Women Writers | 3 |
| FREN226 | French and Francophone Women's Writing | 3 |
| SPAN300 | Women Writers from Latin America | 3 |
| SPAN320 | Women Writers from Spain | 3 |
| WLIT225 | Introduction to Latino Literature in the U.S. | 3 |
| WLIT226 | Contemporary Women Writers in World Literature | 3 |

Department of History and Philosophy

Chair: L. Fishman

Professors: R. Parmet, H. Ruttenberg

Associate Professors: M. Atangana, B. Mangru

Assistant Professor T. Kirk, G. White

Doctoral Lecturer: R. Benedetto

Lecturer: K. Neale

Academic Core 3Do8 - (p) 718-262-2635 (f) 718-262-5220

www.york.cuny.edu/history

histphil@york.cuny.edu

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.

| History (BA) | | Credits |
|-------------------------------------|---------------------------------------|---------|
| 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 |

| History (BA) | | Credits |
|---|--|---------|
| HIST272 | African-American History | 3 |
| HIST273 | The American Worker | 3 |
| HIST274 | The American Ethnic Experience | 3 |
| HIST311 | The Colonial Period of American History, 1492-1760 | 3 |
| HIST312 | The Era of the American Revolution, 1760-1815 | 3 |
| HIST313 | The Civil War | 3 |
| HIST315 | American Diplomatic History, 1789-1914 | 3 |
| HIST316 | American Diplomacy in the Twentieth Century | 3 |
| HIST326 | American Economic History Since the Civil War | 3 |
| Choose two of the following Courses | | 6 |
| HIST206 | Women and the Family in World History | 3 |
| HIST210 | Renaissance, Reformation and the Early Modern European State | 3 |
| HIST331 | The Ancient Near East and Greece | 3 |
| HIST332 | The Ancient World: Rome | 3 |
| HIST333 | Nineteenth-Century Europe | 3 |
| HIST334 | Twentieth-Century Europe | 3 |
| HIST335 | Russia From the Middle Ages to 1855 | 3 |
| HIST336 | Russia From 1855 to the Present | 3 |
| HIST337 | Modern England | 3 |
| HIST338 | Modern France | 3 |
| HIST339 | Modern Germany: 1648-1945 | 3 |
| HIST340 | The Holocaust: the Jewish Experience Under Nazism | 3 |
| HIST344 | Contemporary Europe | 3 |
| Choose two of the following Courses | | 6 |
| HIST257 | East Asia to the Nineteenth Century | 3 |
| HIST258 | East Asia From 1800 to the Present | 3 |
| HIST262 | History of the Middle East | 3 |
| HIST275 | African History Until 1800 | 3 |
| HIST276 | African History From 1800 Until the Present | 3 |
| HIST277 | The Caribbean Since Columbus | 3 |
| HIST278 | History of Modern India | 3 |
| HIST353 | Modern China | 3 |
| HIST354 | Modern Japan | 3 |
| HIST359 | Contemporary China and Japan | 3 |
| HIST367 | Colonial Latin America | 3 |
| HIST368 | Latin America Since 1825 | 3 |
| HIST374 | Africa and the Atlantic Slave Trade | 3 |
| HIST375 | Decolonization in West Africa | 3 |
| HIST376 | West Africa Since Independence | 3 |
| An additional 18 credits at the 200 level or above at least 12 of which must be in History, and 6 of which may be in related disciplines, with the approval of the department | | 18 |

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.

| History (Minor) | | Credits |
|--|--------------------------------------|---------|
| Minor Discipline Requirements | | 15 |
| All courses must be at the 200 level or above. | | |
| | United States History | 3 |
| | European History | 3 |
| | Asian/African/Latin American History | 3 |
| | Other History | 6 |

Interdisciplinary Studies (BA)

HEGIS CODE 4901

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.

| Interdisciplinary Studies (BA) | | Credits |
|---|---|---------|
| Major Requirements Courses taken to fulfill General Education requirements do not count toward meeting Interdisciplinary Studies major requirements. Courses can count, however, to meet both Interdisciplinary Studies and Teacher Education requirements. | | 36-38 |
| History, Behavioral Sciences, Social Sciences**200-level or above; at least 2 300-level or above | | 15 |
| 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***200-level or above; at least one 300-level or above | | 9 |
| | British or American Literature (not English 200) | |
| | Literature that is not British or American | |
| Choose one of the following courses | | |
| | Art | |
| | Music | |
| | Theatre | |

| Interdisciplinary Studies (BA) | | Credits |
|--|---|---------|
| Natural Science, Mathematics 2 courses (at 100-level or above) | | 6-8 |
| | Natural Science (Astronomy, Biology, Chemistry, Geology, Physics) | |
| | Mathematics (not Mathematics 271) | |
| Interdisciplinary 2 courses (200-level or above) | | 6 |
| 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 |

*(Taught by different College disciplines)

** TE students: 1 U.S. & 1 Caribbean or Latin American History.

*** TE students: 1 U.S. & 1 Caribbean or Latin American Literature.

Philosophy (BA)

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 analyses of a variety of issues, preparing them for graduate studies in philosophy, professional schools, etc.

| Philosophy (BA) | | Credits |
|--|--------------------|---------|
| 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.

| Philosophy (Minor) | | Credits |
|---|--------------------|---------|
| Minor Discipline Requirements | | 15 |
| Four Philosophy courses at the 200-level or higher, including at least one of the following: | | |
| PHIL211 | Ancient Philosophy | 3 |
| PHIL213 | Modern Philosophy | 3 |
| One related course at the 200-level or higher in any discipline, including Philosophy, to be approved by a Philosophy advisor | | 3 |

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.

| Cultural Diversity (Special Program) | | Credits |
|--------------------------------------|--|---------|
| 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 |

Department of Mathematics & Computer Science

Chair: L. D'Alotto

Professors: R. Coen, T. Dai, F. Mawyer, F. Pritchard, T.C. Wu

Associate Professors: A. Sunmonu

Assistant Professors: J. Amenyo, P. Babaali, E. Carta-Gerardino, L. Gonzalez, L. Lasser, R. Nath, S. Jain, V. Wang, R. Wojciechowski, D. Zhang

Doctoral Lecturer: V. Thompson

Lecturers: B. Bell, S. Daher

Substitute Assistant Professor: G. Grabarnik

Professors Emeriti: J. Malkevitch, H. Strassberg

Academic Core 2C07 - (p) 718-262-2535 (f) 718-262-2537

www.york.cuny.edu/math-comp

mathcomputers@york.cuny.edu

Computer Science (BS)

HEGIS CODE 0701

The major in Computer Science is designed for students who want to learn about computers and their interrelation with mathematics and with engineering and the physical sciences.

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

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

| Computer Science (BS) | | Credits |
|--|--|---------|
| 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 Languages | 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 I | 4 |
| MATH225 | Discrete Mathematical Structures | 4 |
| Major Elective Courses | | 11-12 |
| Choose Three courses including at least two computer courses | | |
| CS334 | Computer Graphics | 3 |

| Computer Science (BS) | | Credits |
|-----------------------|-------------------------------------|---------|
| CS377 | Artificial Intelligence | 3 |
| 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 |

* 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.

Computer Science (Minor)

HEGIS CODE 0701

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

| Computer Science (Minor) | | Credits |
|-------------------------------------|-------------------------------------|---------|
| Required Courses | | 16 |
| CS291 | Computer Science II* | 4 |
| CS397 | Assembly Language Programming | 4 |
| Choose 2 courses from the following | | 8 |
| CS261 | Data Communications I | 4 |
| CS292 | Introduction to Database Management | 4 |
| CS341 | Algorithms & Data Structures II | 4 |
| CS391 | Object-Oriented Programming | 4 |
| CS451 | Operating Systems | 4 |

* CS 172 is a prerequisite and MATH 141, MATH 225 are prerequisites for CS 291.

Mathematics (B.A. or B.S.)

HEGIS CODE 1701

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

After graduation from York College, the mathematics major may pursue graduate studies toward an advanced degree as a full-time student, or as a part-time student while working in his

or her chosen career.

| Mathematics (B.A. or B.S.) | | Credits |
|---|--|---------|
| Required Prerequisites (5 Credits) | | |
| MATH119 | Computer Algebra System | 1 |
| MATH121 | Analytic Geometry and Calculus I | 4 |
| or | | |
| MATH184 | Analytic Geometry and Calculus I | 4 |
| Mathematics 121 and 184 satisfy the General Education Requirement. | | |
| Major Discipline Requirements (33 Credits) | | |
| 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** | | |
| ** 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 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: | | |
| 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 |
| 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. | | |
| B. Applied Mathematics Area: | | |
| 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 |
| or | | |
| 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 |
| Choose one of the following | | |
| 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.

| Mathematics (Minor) | | Credits |
|---|-------------------------------------|---------|
| 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 |

Mathematics 122 has a prerequisite of Math 121 or Math 184 which may be used to satisfy the General Education Require-

ment.

* Students whose majors require Math 122 and/or Math 333 must substitute 4 credit mathematics courses at the 200-level or higher which are acceptable for the mathematics major. No course can be used to satisfy more than one requirement.

Mathematics Education 7-12 (BS)

HEGIS CODE 1701

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.

| Mathematics Education 7-12 (BS) | | Credits |
|--|---|---------|
| SOC202 | Major Ideas and Issues in Education | 3 |
| Professional Education Sequence (6 credits): | | |
| 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 credits): Credits | | |
| EDUC440 | Supervised Student Teaching, Mathematics, Grades 7-9 | 4 |
| EDUC441 | Supervised Student Teaching, Mathematics, Grades 10-12 | 4 |

Additional Mathematics Requirements

To fulfill their major requirements, all mathematics majors must complete five credits of natural science courses that are acceptable for the respective science majors. These courses also satisfy the General Education Requirement for Mathematics majors. Students interested in pursuing graduate study in Mathematics are also advised to take Advanced Calculus I (Math 423), Advanced Calculus II (Math 424), Complex Analysis (Math 425), and Topology (Math 426).

* Students who do not evident technology competencies may need to take AC101 in order to graduate

| Mathematics Education 7-12 (BS) | | Credits |
|--|---|---------|
| Effective Fall 2010 | | |
| Mathematics Education Requirements | | 43 |
| MATH119 | Computer Algebra System | 1 |
| MATH121 | Analytical Calculus I | 4 |
| OR | | |
| MATH184 | Analytical Calculus I | 4 |
| MATH122 | Analytical Calculus II | 4 |
| MATH221 | Analytical Calculus III | 4 |
| MATH210 | Probability and Statistics I | 4 |
| MATH225 | Discrete Mathematical Structures | 4 |
| MATH243 | Combinatorial and Discrete Geometry | 3 |
| OR | | |
| MATH244 | Geometric Structures | 4 |
| MATH333 | Linear Algebra | 4 |
| MATH336 | Modern Algebra | 4 |
| MATH479 | History and Philosophy of Mathematics | 1 |
| MATH481-489 | One seminar in Contemporary Mathematics | 1 |
| 4 Credits in Math or Computer Science 200 level or above | | 4 |
| 5 Credits Science Course acceptable for respective major | | 5 |
| Education Course Requirements | | 26 |
| Foundations Sequence | | 12 |
| EDUC280 | Child and Adolescent Development for Teachers | 3 |
| EDUC283 | Educational Psychology: Effective Teaching and Learning | 3 |
| EDUC284 | Field Experience in Teaching and Learning | 1 |
| AC230 | Teaching with Multimedia Technology* | 2 |
| Choose one of the following | | |
| PHIL202 | Major Ideas and Issues in Education | 3 |

Department of Performing & Fine Arts

Chair: K. Adams

Professors: J. Como, D. Ernst, P. Simkin

Associate Professors: T. Amrhein, N. Buxenbaum

Assistant Professors: S. Gillespie, T. Marion, E. Metcalf, M. Smith

Lecturer: T. Corkery

Instructor: T. Zlabinger

Substitute Lecturer: D. Jones, J. Heatherly

Academic Core 1A12 - (p) 718-262-2400 (f) 718-262-3749

www.york.cuny.edu/performingarts

arts@york.cuny.edu

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.

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.

| Art History (BA) | | Credits |
|--|--|---------|
| Major Discipline Requirements | | 45 |
| I. | | 3 |
| FA104 | Introduction to Fine Arts | 3 |
| 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 |

| Art History (BA) | | Credits |
|---|---|---------|
| 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 |
| III. | | 6 |
| FA499 | Research in Art History | 3 |
| IV. Nine credits chosen from Art Studio Major Requirements, Sections I, II, and III | | 9 |
| V. Foreign Language* | | 6 |
| VI. Electives** | | 6 |

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

** Elective credits should be taken in one or more of the following fields: Classics, Fine Arts, Foreign Language, History, Literature, Music, Philosophy, and Speech. Note: At least 90 Liberal Arts credits are required.

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.

Majors will be able 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.

| Communications Technology (BS) | | Credits |
|--------------------------------|--|---------|
| Major Discipline Requirements | | 47-51 |
| Basic Requirements | | 25-26 |
| AC101 | Introduction to Microcomputers | 0-1 |
| CS172 | Computer Science I | 4 |
| CT101 | Introduction to Video | 3 |
| CT201 | Foundations in Communications Technology | 3 |
| CT205 | Principles of the Moving Image | 3 |
| CT244 | Multimedia Sound Production | 3 |
| FA284 | Computer Graphics I | 3 |
| HIST373 | The History of Technology | 3 |
| Choose one of the Following | | |
| JOUR282 | Introduction to Writing Broadcast News | 3 |
| ENG384 | Writing for Electronic Media | 3 |

| Communications Technology (BS) | | Credits |
|--|---|---------|
| Area Requirements Students may select Digital Video, Computer Graphics, or Systems and Applications Concentrations | | 9-11 |
| Digital Video Concentration | | 9 |
| CT240 | Studio Television Production | 3 |
| CT345 | Introduction to Motion Graphics | 3 |
| CT355 | Documentary Production | 3 |
| Computer Graphics Concentration | | 9 |
| CT360 | Principles of Web Publishing | 3 |
| CT381 | Advanced Web Design | 3 |
| FA384 | Computer Graphics II | 3 |
| Systems and Applications Concentration | | 11 |
| CS261 | Data Communications I | 4 |
| CT370 | Web Programming | 3 |
| MATH225 | Discrete Mathematical Structures | 4 |
| Major Electives Select two courses based on student's concentration from the following | | 6-8 |
| CT380 | Webcasting | 3 |
| CT385 | Multimedia Interface Design | 3 |
| CT390 | Online Communities | 3 |
| CT391 | Telecommunications in Transition | 3 |
| CT415 | Special Topics – Production | 3 |
| CT416 | Special Topics – Production | 3 |
| CT417 | Special Topics – Production | 3 |
| CT418 | Special Topics – Production | 3 |
| CT419 | Special Topics – Production | 3 |
| CT425 | Special Topics – Seminar | 3 |
| CT426 | Special Topics – Seminar | 3 |
| CT427 | Special Topics – Seminar | 3 |
| CT428 | Special Topics – Seminar | 3 |
| CT429 | Special Topics – Seminar | 3 |
| CS292 | Introduction to Database Management | 4 |
| CS361 | Data Communications II | 4 |
| SPCH203 | Ethics and the Freedom of Speech | 3 |
| SPCH350 | Persuasion and Propaganda in Television | 3 |
| Senior Requirements | | 7 |
| CT399 | Portfolio Design | 1 |
| CT401 | Final Project/Senior Seminar | 3 |
| CT490 | Internship | 3 |
| CT491 | 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. 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.

| Communications Technology (Minor) | | Credits |
|-----------------------------------|--|---------|
| Communications Technology Minor | | 16 |

| Communications Technology (Minor) | | Credits |
|-----------------------------------|--|---------|
| 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 |

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

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

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. Concentration in jazz studies: Students who elect to concentrate in jazz studies are advised to select among the following music electives: Music 146, 246, 250, 253, 420, and 461.

Students are also encouraged to take such non-music courses as: Afro-American Studies 101, 245, and 354; Fine Arts 398; History 110, 201, and 272; Political Science 101; and Sociology 101.

The Computer Music studio is a state-of-the-art facility equipped with microcomputers, digital synthesizers, MIDI interfaces, sound sampling systems, and multi-track tape recorders. The studio is made available to students enrolled in Music 225.

| Music (BA) | | Credits |
|-------------------------------|-----------------------------|---------|
| Major Discipline Requirements | | 39 |
| Required Music Courses | | 33 |
| MUS111 | Basic Music Theory II* | 3 |
| MUS146 | Jazz Improvisation I | 2 |
| MUS210 | Intermediate Musicianship I | 2 |

| Music (BA) | | Credits |
|------------------------------------|---|---------|
| 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 |

* Prereq: Music 110 or placement by examination. If exempt, student must take 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)

| Music (Minor) | | Credits |
|-------------------------------------|--------------------------------------|---------|
| Required Credits | | 15 |
| MUS111 | Basic Music Theory II* | 3 |
| MUS141 | Class Instruction Piano | 1 |
| MUS210 | Ear Training I | 2 |
| MUS220 | Music Theory III | 3 |
| Choose 2 courses from the following | | 6 |
| MUS253 | History of Jazz | 3 |
| MUS270 | Introduction to Ethnomusicology (WI) | 3 |
| MUS350 | History of Music I WI | 3 |
| MUS351 | History of Music II WI | 3 |
| MUS420 | Instrumentation | 3 |
| MUS422 | Conducting | 3 |
| MUS461 | Jazz Styles and Techniques | 3 |

* Prereq: Music 110 or placement by examination.

Speech Communication & 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.

| Speech Communication & Theatre Arts (BA) | Credits |
|--|---------|
| Major Discipline Requirements | 33 |

| Speech Communication & Theatre Arts (BA) | | Credits |
|--|--------------------------------|---------|
| Required Speech Communication and 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)

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.

| Theatre Arts (Minor) | | Credits |
|--------------------------------------|---|---------|
| 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 |

| Theatre Arts (Minor) | | Credits |
|--|------------------------------------|---------|
| 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 |

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.

| Studio Art (BA) | | Credits |
|--|----------------------------------|---------|
| 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 |

| Studio Art (BA) | | Credits |
|---|---------------------------------------|---------|
| 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 |
| 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 |
| IV. Three credits | | 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)

| Studio Art (Minor) | | Credits |
|--|--------------------------------------|---------|
| 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 |

| Studio Art (Minor) | | Credits |
|---|---|---------|
| FA253 | Graphic Design 1 | 3 |
| Three credits chosen from the following: | | |
| FA290 | Ancient Art | 3 |
| FA291 | Art of Medieval Europe | 3 |
| 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 2 additional 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. | | |

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

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.

| Academic Computing | | Credits |
|--------------------|-------------------------------------|---------|
| AC101 | Introduction to Microcomputers I | 1 |
| AC102 | Introduction to Microcomputers II | 1 |
| AC201 | Computer Applications | 3 |
| AC230 | Teaching with Multimedia Technology | 2 |

Welcome to the School of Business & Information Systems.
It is my pleasure to welcome all of you to our newly-formed School of Business & Information Systems.

This is an exciting time to study Business at York College. The formation of the school prompts us to do a thorough review of our on-going activities, recruit several talented new faculty, and take the necessary steps toward full accreditation.



For you, this means that you will receive a first rate education in whichever specialty you choose; one that is comparable to other highly-regarded business schools.

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.

Best wishes,

Harry M. Rosen, Ph.D.
(Acting) Dean, School of Business & Information Systems

Department of Accounting and Finance

Chair: M.J. Kranacher

Professors: B. Bharosay, H. Gellis

Associate Professors: R. Clovey, R. Ruiz

Assistant Professor: R. Ahsan, C. Hsu, L. Stern

Substitute Lecturer: M. Small

Academic Core 2Bo6 - (p) 718-262-2500 (f) 718-262-2528

www.york.cuny.edu/accounting

accounting@york.cuny.edu

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.

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.

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 102, 103, 220, and Mathematics 115 in partial fulfillment of General Education Requirements and Liberal Arts Requirements.

Transfer students majoring in Accounting must present or complete these courses, even though they have an Associate degree where all General Education 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.

| Accounting (BS) | | Credits |
|-------------------------------------|-------------------------------------|---------|
| Effective Fall 2010 | | |
| Major Discipline Requirements | | 60 |
| Common Body of Knowledge | | 32 |
| ACC101 | Principles of Accounting I | 4 |
| ACC102 | Principles of Accounting II | 4 |
| BUS283 | Business Law I | 3 |
| BUS201 | Computer Applications in Business | 3 |
| BUS301 | Management Theory and Practice | 3 |
| BUS321 | Principles of Finance | 3 |
| MKT341 | Introduction to Marketing | 3 |
| BUS348 | Productions/Operations Management | 3 |
| BUS430 | Ethics, Government & Accountability | 3 |
| BUS481 | Strategic Management | 3 |
| Required Courses | | 28 |
| ACC201 | Intermediate Accounting I | 3 |
| ACC202 | Intermediate Accounting II | 3 |
| ACC203 | Intermediate Accounting III | 3 |
| ACC301 | Advanced Financial Accounting | 4 |
| ACC335 | Auditing I | 3 |
| ACC345 | Cost Accounting I | 3 |
| ACC350 | Income Taxation | 3 |
| Plus 6 credits Accounting Electives | | 6 |

Department of Business & Economics

Chair: M. Schneider

Professor: P. Althaus

Associate Professors: R. Aceves, C. Ou, L. Perry, J. Schachter,

Assistant Professors: P. Massimino, O. Oladipo, A. Sadighian

Lecturers: G. Bercovitz, W. Forrester, D. Johnson

Academic Core 2Bo7 - (p) 718-262-2502 (f) 718-262-2528

www.york.cuny.edu/economics

economics@york.cuny.edu

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.

| Aviation Management (BS) | | Credits |
|---|---|---------|
| Required Courses | | 44 |
| ACC101 | Accounting I | 4 |
| ACC102 | Accounting II | 4 |
| BUS230 | 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 | Introduction to Microeconomics | 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 | | |

| Aviation Management (BS) | | Credits |
|--------------------------|--|---------|
| 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)

| Aviation Management (Certificate Program) | | Credits |
|--|--|---------|
| Required Courses | | 18 |
| BUS301 | Management Theory and Practice | 3 |
| BUS230 | 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 (BS) | | Credits |
|------------------------------|---|---------|
| Required Courses* | | 47-57 |
| Co-op Requirements* | | 4 |
| COOP101 | Orientation 1 or equivalent (See Note 3) | 1 |
| COOP111 | Work Experience and Seminar or equivalent | 3 |
| Business Major Requirements | | 38 |
| 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 | Introduction to Microeconomics | 3 |
| ECON220 | Introduction to Economic Statistics | 3 |
| MKT341 | Introduction to Marketing | 3 |

| Business Administration (BS) | | Credits |
|--|---|---------|
| Other Requirements Three courses (9-10 credits) chosen from one of Areas 1, 2, 3 or 4, or four courses (12 credits) from Area 5. | | |
| Area 1. 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 |
| 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 Course | | |
| BUS325 | Introduction to Mortgage Banking | 3 |
| Elective Courses Choose two of the following | | |

| | | |
|-----------------------------|---|---|
| BUS328 | Fair Housing and Fair Lending Laws | 3 |
| ECON311 | Money and Banking | 3 |
| BUS426 | Lending Programs for Affordable Housing | 3 |
| ECON333 | Urban Economics | 3 |
| Area 5. Aviation Management | | |
| ACC238 | Fraud Examination | 3 |
| BUS230 | Introduction to the Aviation Business | 3 |
| BUS235 | Airport Planning & Mgmt | 3 |
| BUS330 | Aviation Operations | 3 |
| MKT353 | Aviation Marketing & Economics | 3 |

* 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.

Computer Applications in Business (Minor)

| Computer Applications in Business (Minor) | | Credits |
|---|---|---------|
| Required Course | | 15-16 |
| 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 |

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. 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.

| Economics (BA) | | Credits |
|--|-------------------------------------|---------|
| Major Discipline Requirements (30 Credits) | | |
| ECON102 | Introduction to Microeconomics | 3 |
| ECON103 | Introduction to Macroeconomics | 3 |
| ECON200 | Intermediate Microeconomics | 3 |
| ECON210 | Intermediate Macroeconomic | 3 |
| ECON220 | Introduction to Economic Statistics | 3 |
| ECON311 | Money and Banking | 3 |
| Economics Elective | | 3 |
| Electives in Economics, Business, Accounting or Marketing* | | 9 |

*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, 311, 340, 360, and 420.

Economics (Minor)

| Economics (Minor) | | Credits |
|-------------------------------|--------------------------------------|---------|
| Required Courses (15 Credits) | | |
| ECON102 | Introduction to Microeconomics | 3 |
| ECON103 | Introduction to Macroeconomics | 3 |
| ECON200 | Intermediate Microeconomics | 3 |
| ECON210 | Intermediate Macroeconomics | 3 |
| ECON220 | Introduction to Economics Statistics | 3 |

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.

| Marketing (BS) | | Credits |
|-------------------------------|-------------------------------------|---------|
| Effective Fall 2010 | | |
| Major Discipline Requirements | | 59 |
| Common Body of Knowledge | | 32 |
| ACC101 | Principles of Accounting I | 4 |
| ACC102 | Principles of Accounting II | 4 |
| BUS201 | Computer Applications in Business | 3 |
| BUS283 | Business Law I | 3 |
| BUS301 | Management Theory and Practice | 3 |
| BUS321 | Principles of Finance | 3 |
| BUS348 | Production/Operations Management | 3 |
| BUS430 | Ethics, Governance & Accountability | 3 |
| BUS481 | Strategic Management | 3 |
| MKT341 | Introduction to Marketing | 3 |
| Marketing Required Courses | | 15 |

| Marketing (BS) | | Credits |
|--------------------------------------|-----------------------------------|---------|
| MKT342 | Market Research | 3 |
| MKT343 | Advertising and Public Relations | 3 |
| mkt346 | International Marketing | 3 |
| MKT347 | Consumer Behavior | 3 |
| MKT483 | Marketing Management | 3 |
| Choose four of the following courses | | 12 |
| BUS349 | Small Business Management | 3 |
| BUS351 | Sales Management | 3 |
| MKT344 | Retail Management | 3 |
| MKT350 | Industrial Marketing | 3 |
| MKT352 | Direct Marketing | 3 |
| PSY251 | Organizational Behavior | 3 |
| PSY253 | Managerial & Personnel Psychology | 3 |

* All Marketing Majors must take Mathematics 115 and Economics 103 toward fulfillment of General Education or Degree Requirements. At least 15 credits in major discipline requirements must be taken at York College.

Mortgage Finance (Minor)

| Mortgage Finance (Minor) | | Credits |
|-------------------------------|---|---------|
| Required Courses | | 15 |
| All of the following courses: | | |
| BUS325 | Introduction to Mortgage Banking | 3 |
| BUS328 | Fair Housing and Fair Lending Laws | 3 |
| ECON311 | Money and Banking | 3 |
| BUS426 | Lending Programs for Affordable Housing | 3 |
| ECON333 | Urban Economics | 3 |

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.

| Mortgage Finance (Certificate Program) | | Credits |
|--|---|---------|
| Required Courses | | 18 |
| BUS301 | Management Theory and Practice | 3 |
| BUS325 | Introduction to Mortgage Banking | 3 |
| BUS328 | Fair Housing and Fair Lending Laws | 3 |
| ECON311 | Money and Banking | 3 |
| BUS426 | Lending Programs for Affordable Housing | 3 |
| ECON333 | Urban Economics | 3 |

Information Systems Management (BS)

HEGIS CODE 0507

The Mathematics and Computer Science Department, jointly with the Department of Business and Economics, 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.

| Information Systems Management (BS) | | Credits |
|---|--|---------|
| Major Discipline Requirements | | 56-60 |
| Required Courses | | 39-40 |
| 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 | Introduction to Datastructure | 4 |
| CS292 | Introduction to Database Management | 4 |
| CS397 | Assembly Language Programming | 4 |
| ECON102 | Introduction to Microeconomics | 3 |
| ECON220 | Introduction to Economics Statistics | 3 |
| choose one of the following | | |
| MATH141 | Discrete Mathematics | 3 |
| MATH225 | Discrete Mathematical Structures | 4 |
| Choose one of the following Tracks | | 8 |
| Data Communications | | |
| CS261 | Data Communication I | 4 |
| CS361 | Data Communication II | 4 |
| Business Technology | | |
| CS371 | Business Programming | 4 |
| CS391 | Object-Oriented Programming | 4 |
| Choose any three courses from the following | | 9-12 |
| Co-op | | |
| COOP111 | Work Experience and Seminar I | 3 |
| Computer Science | | |
| | any computer science courses numbered 200 or above | |
| Mathematics*** | | |
| MATH121 | Analytic Geometry and Calculus | 4 |
| | or | |
| MATH184 | Analytic Geometry and Calculus I | 4 |
| MATH122 | Analytic Geometry and Calculus II | 4 |

| Information Systems Management (BS) | | Credits |
|-------------------------------------|--------------------------------------|---------|
| MATH210 | Probability and Statistics I | 4 |
| MATH241 | 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.

Dear Students / Visitors:

The and School of Health and Behavioral Sciences and houses many exciting educational possibilities, all committed to providing you with a world-class education that will prepare you for your future. As you explore the majors located in this bulletin, you'll find academic programs that are current, vibrant and diverse.

Our professional programs are nationally accredited by the:

National League for Nursing (NLN), Accreditation Council for Occupational Therapy Education (ACOTE), Council on Social Work Education, National Council for Accreditation of Teacher Education (NCATE), and the Commission on Education for the Physician Assistant (ARC-PA).



Dana Fusco, Ph.D. Acting Dean,
School of Health & Behavioral Sciences

Regardless of what you choose, you will be engaged in courses that are rich in content and strong in teaching. The teaching/learning relationship at SHBS is personal and enriching. You will find opportunities to interact with faculty and fellow students, and can expect a challenging yet welcoming experience. Faculty and staff are engaged in research in a wide array of areas including stress, diabetes, health promotion, HIV/AIDS, bilingual education, violence prevention, and on-line education. You will have opportunities to participate in research alongside our scholars as well as gain clinical experience in the field through our many community partnerships.

If you have received a degree from one of CUNY's community colleges and graduated in good academic standing, we offer a streamlined transition to many of our baccalaureate degree programs. The faculty and staff of SHBS are here to provide you with the support you need to succeed in your discipline and beyond. Your success is our success! Good luck in your pursuits - Take advantage of all the college has to offer - And, please do not hesitate to meet with me if you have questions or concerns.

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.

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. 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.

I look forward to meeting you.

Dana Fusco, Ph.D.
Acting Dean, School of Health & Behavioral Sciences

Department of Behavioral Sciences

Chair: D. Chirico

Professor: D. Majerovitz

Associate Professors: W. Ashton, C. Dyer, G. Escamilla, M. Flynn, D. Swoboda, F. Villegas

Assistant Professors: R. Duncan, I. Hansen, R. Harper, K. Mok-rue, L. Preiser, M. Sharpe

Distinguished Lecturer: R. Daniels

Doctoral Lecturers: K. Davies, S. Austin

Lecturers: W. Smickle

Academic Core - 4D06 (p) 718-262-2680 (f) 718-262-2675

www.york.cuny.edu/behavioral-sciences

behavioralsciences@york.cuny.edu

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, prelaw, comparative government, international relations and area studies.

To major in political science, students must take a minimum of 30 credits in political science, of which 18 are required. For the remainder of the credits students are encouraged to consult with a faculty adviser to assist them in selecting a relevant concentration of elective courses which will advance their interests and career goals.

Besides traditional classes, the department offers advanced work for juniors and seniors in a variety of formats including seminars and internships at the local, state and national levels.

| Political Science (BA) | | Credits |
|---|--|---------|
| Major Discipline Requirements (31 Credits) | | |
| LEVEL I | | |
| Required Courses | | 6 |
| POL214 | Radical and Ethnic Politics | 3 |
| POL285 | Urban Government in the United States | 3 |
| One course chosen from the following | | 3 |
| POL202 | Comparative Politics* | 3 |
| POL241 | Basic Factors in International Politics** | 3 |
| One course chosen from the following: | | 3 |
| POL267 | Classical Political Theory I: Plato to Machiavelli | 3 |
| POL268 | Political Theory II: Machiavelli to Marx | 3 |
| POL269 | American Political Thought | 3 |
| LEVEL II (Area Studies) | | |
| One course chosen from the following: | | 3 |
| POL226 | The U.S. Supreme Court | 3 |
| POL327 | Congress and the Presidency | 3 |
| Once course chosen from the following: | | 3 |
| POL250 | Latin American Politics | 3 |
| POL256 | African Politics | 3 |
| POL257 | Asian Politics | 3 |
| POL258 | Middle East Politics | 3 |
| LEVEL III (Internship) | | |
| One course chosen from the following | | 4 |
| POL393 | Seminar-Internship in New York City Government and Community Development | 4 |
| POL394 | Seminar-Internship in New York City Government and Community Development | 4 |
| Elective Political Science courses, 9 credits | | 9 |

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

For students pursuing careers in law, civil service, management, teaching etc., POL 228, 230, 275 are highly recommended.

Students hoping to pursue doctoral studies in political science are urged to take: Politics 220 (or Sociology 220), Politics 453, and Politics 340 or 367* Political Science majors must choose POL 103 to satisfy the General Education requirement.

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) | | Credit |
|---------------------------|--|--------|
| Political Science | | 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 |

| Political Science (Minor) | | Credit |
|---------------------------|--|--------|
| 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.

Aviation Policy (Minor)

| Aviation Policy (Minor) | | Credit |
|------------------------------------|--|--------|
| Requirements for the Concentration | | 6 |
| POL210 | Introduction to Political Economy | 3 |
| POL228 | Public Administration in the Political Setting | 3 |
| Elective Group 1 Choose one | | 3 |
| BUS230 | Introduction to the Aviation Business | 3 |
| BUS235 | Airport Planning and Management | 3 |
| BUS330 | Aviation Operations | 3 |
| BUS335 | Case Studies in Aviation Financial Management | 3 |
| MKT353 | Aviation Marketing and Economics | 3 |
| POL280 | Transportation: Planning, Finance Policy | 3 |
| Elective Group 2 Choose one | | 3 |
| ECON310 | Public Finance (Cross listed as Political Science 311) | 3 |
| POL320 | Risk Management for Public Policy | 3 |
| POL329 | Public Administration: Management Process | 3 |
| Elective Group 3 Choose one | | 3 |
| BUS392 | Aviation Internship in the Private Sector | 3 |
| POL392 | Aviation Internship in the Public Sector | 3 |
| POL402 | Aviation Policy Seminar | 3 |
| Electives | | 9 |

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.

International Relations (Minor)

| International Relations (Minor) | | Credits |
|--|---|---------|
| Required Courses* (15 Credits) | | |
| Students must complete the following courses (9 credits) | | |
| 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.

Labor Studies within Political Science (Minor)

| Labor Studies within Political Science (Minor) | | Credits |
|---|---|---------|
| Required Courses | | 15 |
| Demography and Social Strata | | 3 |
| Choose one | | |
| 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 |
| Choose one | | |
| 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 |
| Choose one | | |
| 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 |
| Choose one | | |
| 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 |

Political Science Cross-Cultural Studies For Psychology (Minor)

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.

| Political Science/Cross-Cultural Studies For Psychology (Minor) | | Credits |
|---|----------------------------|---------|
| 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. and The same course cannot be used to fulfill two separate requirements.

Pre-Law Studies within Political Science (Minor)

| Pre-Law Studies within Political Science (Minor) | | Credits |
|--|------------------------------|---------|
| 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 |
| Additional Required Course (choose one) | | |
| PHIL121 | Beginning Deductive Logic | 3 |
| PHIL356 | Philosophy of Law | 3 |
| POL310 | Legal Research | 2 |
| POL322 | The Courts and Public Policy | 3 |

Public Administration (Minor)

| Public Administration (Minor) | | Credits |
|-------------------------------|--|---------|
| Required Courses | | 15 |
| POL103 | Politics and Government in the United States * | 3 |
| POL228 | Public Administration in the Political Setting | 3 |
| POL285 | Urban Government in United States | 3 |
| POL329 | Public Administration: Management Processes | 3 |
| POL330 | Public Policy Making | 3 |
| POL453 | Seminar in Global Change | 3 |

Note - Students will be required to take five (5) of the six (6) courses listed for a minor in Public Administration

*This course may be used to fill the general education requirement, or the minor requirement.

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.

| Psychology (BA) | | Credits |
|---|---|---------|
| Major Course Requirements Complete Groups I, II, and III | | 33-34 |
| Group I: Required Psychology Courses (15 credits) | | |
| PSY215 | Human Development I – Infancy/Childhood | 3 |
| PSY326 | Statistical Methods in Psychology | 3 |
| PSY330 | Foundations of Research in Psychology | 3 |
| PSY334 | Personality | 3 |
| PSY401 | History of Psychology | 3 |
| Group II: Choose one course in Area A, B, and C (9 Credits) | | |
| Only ONE course required in EACH area | | |
| Area A: Choose one of the following: | | |
| PSY319 | Human Cognition Laboratory | 3 |
| PSY321 | Psychology of Learning Laboratory | 3 |
| Area B: Choose one of the following | | |
| PSY332 | Social Psychology | 3 |
| PSY338 | Abnormal Psychology | 3 |
| Area C: Choose one of the following | | |
| PSY313 | Sensation and Perception Laboratory | 3 |
| PSY362 | Physiological Psychology | 3 |
| Group III: Three additional Psychology Courses (9-10 Credits) | | |
| | Elective in Psychology | |
| | Elective in Psychology | |
| | Elective in Psychology | |

Note: Group III Courses: The courses in Group II may be used as electives. and 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.

Cognitive Neuroscience (Minor)

| Cognitive Neuroscience (Minor) | | Credits |
|--------------------------------|---|---------|
| 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.

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.

| Psychology (Minor) | | Credits |
|---|-------------------------|---------|
| Required Courses | | 15 |
| PSY102 | Introductory Psychology | 3 |
| Four additional courses in Psychology (Note: At least 2 of these courses must be at the 300-level or higher.) | | 12 |

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

Department of Health & Physical Education

Chair: D. Ajuluchukwu

Professor: L. Barley

Associate Professors: D. Agin, M. Brodsky, R. Marks, G. Werber-Zion

Assistant Professors: A. Costley, D. Glaser, N. Grosskopf, T. Prewitt

Lecturer: P. Ogle

Substitute Lecturer: A. Marra

Instructor: C. Lane

Physical Ed. Building - P201 (p)718-262-5100 (f)718-262-5216

www.york.cuny.edu/health-physed

health-physed@york.cuny.edu

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:

1. Hospitals and other health-care institutions in patient education
2. Community-based health education programs initiated by health departments, Boys Girls Clubs, community clinics and outreach services.
3. National health-related agency programs including such organizations as the American Cancer Society, The American Lung Association, The National Foundation-March of Dimes, The American Red Cross, The National Safety Council and the American Medical Association. In addition, students are prepared to enter graduate programs in health education and related fields.

| Community Health Education (BS) | | Credit |
|-----------------------------------|---|--------|
| Major Discipline Requirements | | 45 |
| Required Major Discipline Courses | | 27 |
| 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 |
| GERO301 | Wellness and The Elderly | 3 |

| Community Health Education (BS) | | Credit |
|--|--|--------|
| 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.

Gerontological Studies & Services (BS)

HEGIS CODE 2299.01

This interdisciplinary program of study provides an opportunity for students to develop a compassionate and constructive view of older adults and the process and problems of aging. Graduates of this program will be prepared to continue their education at the graduate level, or to enter employment in their chosen fields. The Field Work component permits students the opportunity to experience first-hand, the realities of working with well and frail elderly in the field of Gerontological studies and services.

| Gerontological Studies & Services (BS) | | Credits |
|--|---|---------|
| Required Courses | | 49 |
| Program Requirements | | 23 |
| GERO101 | Introduction to Gerontology I (Interdisciplinary) | 3 |
| GERO201 | Intermediate Gerontology | 3 |
| GERO301 | Wellness and the Elderly | 3 |
| HE201 | Foundations of Health and Wellness | 2 |
| HE341 | HIV/AIDS: Public Health Implications | 3 |
| PSY280 | Psychology of Geriatrics | 3 |

| Gerontological Studies & Services (BS) | | Credits |
|--|--|---------|
| 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 | Field Work | 1 |
| HE472 | Field Work | 1 |
| HE473 | Field Work | 2 |
| HE474 | Field Work | 2 |

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.

| Gerontology (Minor) | | Credits |
|--|---|---------|
| 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 |

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.

Settings in which Health Promotion Management specialists are employed include: hospitals, private and resort based health and fitness centers, colleges and universities, government agencies, private wellness and health promotion counseling firms, and in worksite health promotion centers.

| Health Promotion Management (BS) | | Credits |
|-----------------------------------|---|---------|
| 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 |
| 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.

| Movement Science (BS) | | Credits |
|--|---|---------|
| Required Courses | | 49 |
| Skills courses* | | 6 |
| Select 6 credits from any 100-200*- level course and/or from Physical Education, 311, 312, 313 | | |
| Required Major Discipline Courses | | 23 |
| PE215 | Basics of Motor Development and Motor Learning | 3 |
| PE350 | Principles and Foundations of Physical Education | 2 |
| 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 |
| Choose 14 Credits from the following PE courses | | |
| 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 |

| Movement Science (BS) | | Credits |
|---|---|---------|
| PE474 | Field Work in Physical Education and Recreation | 2 |
| Proof of a current First Aid/CPR certification | | |
| Interdisciplinary Requirements | | 6 |
| 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 | | |
| 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

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. All Physical Education courses are coeducational.

| Physical Education (Grades K-12) (BS) | | Credits |
|---------------------------------------|--|---------|
| Effective Fall 2010 | | |
| Major Discipline Requirements | | 42 |
| 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** | | |

| Physical Education (Grades K-12) (BS) | | Credits |
|---|---|---------|
| 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 |
| Choose 4 Credits Team Sports | | |
| PE151 | Basketball | 1 |
| PE158 | Football | 1 |
| PE162 | Lacrosse | 1 |
| PE163 | Softball | 1 |
| PE164 | Soccer | 1 |
| PE165 | Volleyball | 1 |
| Choose 1 Credit Dance | | |
| PE173 | Folk and Social Dance | 1 |
| PE176 | Modern Dance I | 1 |
| PE183 | African Dance | 1 |
| PE278 | Modern Dance II | 1 |
| Choose 3 Credits Individual Sports | | |
| PE141 | Weight Training | 1 |
| PE154 | Track and Field | 1 |
| PE159 | Self-Defense Activities | 1 |
| PE164 | Soccer | |
| PE166 | Yoga | 1 |
| PE167 | Handball | 1 |
| PE171 | Tennis | 1 |
| PE174 | Golf | 1 |
| PE181 | Badminton | 1 |
| PE271 | Competitive Tennis | 1 |
| Choose 1 Credit Outdoor Sports | | |
| PE170 | Canoeing | 1 |
| PE177 | Small Boat Sailing | 1 |
| PE178 | Outdoor Living: Hiking and Backpacking | 1 |
| PE279 | Leadership in Outdoor Living | 1 |
| PE280 | Winter Mountaineering | 1 |
| Choose 1 Class Aquatics | | |
| 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 |
| One Course | | |
| PE139 | Instructional Methodologies of Teaching Sports Skills | 2 |
| Education Certification requirements | | |
| Foundation Courses | | 31-32 |

| Physical Education (Grades K-12) (BS) | | Credits |
|---------------------------------------|--|---------|
| AC230 | Teaching with Multimedia Technology*** | 2 |
| EDUC280 | Child and Adolescent Development for Teachers | 3 |
| EDUC283 | Effective Teaching and Learning | 3 |
| EDUC284 | Field Experience in Teaching and Learning | 1 |
| MATH271 | Mathematics for Elementary School Teachers# | 4 |
| Choose One | | |
| 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 |

*All Physical Education K-12 majors, including transfer students, and 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.

***Students who do not evidence technology competencies may need to take AC101 in order to graduate.

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.

Teaching Certification in Health Education K-12 (BS)

HEGIS CODE 0837

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.

| Teaching Certification in Health Education K-12 (BS) | | Credits |
|--|--|---------|
| Effective Fall 2010 | | |
| 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 Health and Physical Education | 3 |
| HE481 | Organization and Administration of Health Education | 3 |
| BIO281 | Human Structure and Function | 4 |
| Education Certification requirements | | 33-34 |
| Foundation Courses | | |
| AC230 | Teaching with Multimedia Technology** | 2 |
| EDUC280 | Child and Adolescent Development for Teachers | 3 |
| EDUC283 | Effective Teaching and Learning | 3 |
| EDUC284 | Field Experience in Teaching and Learning | 1 |
| MATH271 | Mathematics for Elementary School Teachers# | 4 |
| Choose One | | |
| 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 1-6) | 4 |
| EDUC419 | Supervised Student Teaching Health Education (grades 7-12) | 4 |

*Prospective Health Education 1-12 majors are required to take Biology 120, and which may be used towards fulfillment of the Natural Science Area requirements.

**Students who do not evident technology competencies may need to take AC101 in order to graduate.

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)

| Health Education (Minor) | | Credits |
|--|--------------------------------------|---------|
| 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 |

Department of Health Professions

Chair: R. Brugna

Professors: J. Lavin

Associate Professors: B. Beckerman, E. Davidson, L. Dill, J. Graffeo, P. Jackson

Assistant Professors: N. Donahue, S. Glodstein, M.E. Pina Fonti, T. Shearin-Patterson, S. Williams

Doctoral Lecturer: E. Rampersaud

Instructor: B. Orłowski

Science Building - SC112 (p) 718-262-2823 (f) 718-262-2504

www.york.cuny.edu/healthprofessions

healthprofessions@york.cuny.edu

*Clinical Laboratory Science Medical Technology (BS)

**(Formerly Medical Technology) Pending State Approval*

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 and 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.

** Formally Medical Technology pending state approval.*

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 Biology 265
- Chemistry and 102, 230, 235, 237, 241,
- Matriculation at York
- 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 2.3 in Medical Technology courses 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.

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 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.

| Clinical Laboratory Science Medical Technology (BS) | | Credits |
|--|--|---------|
| Effective Fall 2010 | | |
| Major Discipline Requirements | | 74 |
| Required Basic Science Courses | | 27 |
| BIO201 | Principles I | 4 |
| BIO202 | Principles II | 4 |
| CHEM230 | Essentials of Organic Chemistry | 3 |
| CHEM235 | Organic Lab | 2 |
| BIO265 | Clinical Microbiology | 3 |
| CHEM102 | Chemical Principles II | 5 |
| CHEM237 | Toxicology | 3 |
| CHEM241 | Instrumental Methods of Analysis | 3 |
| Clinical Laboratory Science/Medical Technology Courses | | 37 |
| HPGG101 | Basic Concepts of Health Professions | 2 |
| HPMT252 | Introductory Hematology | 3 |
| 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 |

| Clinical Laboratory Science Medical Technology (BS) | | Credits |
|---|---|---------|
| HPMT353 | Medical Parasitology | 3 |
| HPMT354 | Coagulation | 3 |
| HPMT357 | Clinical Microbiology | 4 |
| HPMT358 | Diagnostic Techniques in Molecular Pathology | 3 |
| HPMT361 | Urinalysis and Body Fluids | 3 |
| Internship | | 10 |
| HPMT459 | Clinical Internship for Medical Technology I | 5 |
| HPMT460 | Clinical Internship for Medical Technology II | 5 |

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 the program is to:

1. Prepare a professional practitioner of nursing
2. 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

1. Completion of the 56 required General Education and prerequisite credits.
2. A minimum grade point average (GPA) of 3.0 in all

General Education and prerequisite credits.

3. A grade of "C" or better in each General Education and Prerequisite courses.
4. Completion of all required York College Writing Intensive (WI) Courses.
5. Professional Liability (Malpractice) Insurance (prior to start of first clinical course).
6. Current Basic Life Support Certificate (BCLS).

Advancing to Nursing Clinicals:

New Nursing Eligibility Requirements.

Starting in the fall 2009 semester, in order to advance into nursing clinical's, students must provide documentation for one of the following categories:

1. U.S. Citizenship
2. Permanent Residency
3. International Student with F1 Status
4. Granted Asylum, Refugee Status, Temporary Protected Status, Withholding of Removal, Deferred Enforced Departure; or Deferred Action Status by the U.S. government

Students who may be affected by the change can consult with the CUNY Citizenship and Immigration Project, which provides free counseling and assistance to all CUNY students who need help with their immigration status.

New Requirement Does Not Affect Students Who Have Advanced or Will Advance into Nursing Clinicals before Fall 2009

| Nursing (BS) | | Credits |
|---|--|---------|
| General Education Requirements | | |
| ENG125 | Introduction to College Writing | 4 |
| ENG200 | Understanding Literature | 3 |
| SPCH101 | Oral Communication in Contemporary Society | 3 |
| WRIT303 | Research and Writing for Professional Programs | 3 |
| Choose one of the following | | |
| SPAN110 | Spanish for the Health Professions | 3 |
| FREN110 | French for the Health Professions | 3 |
| Choose one of the following | | |
| 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 |
| Choose one of the following | | |
| PHIL102 | Beginning Informal Logic | 3 |
| PHIL103 | Introduction to Philosophy | 3 |
| PHIL121 | Beginning Deductive Logic | 3 |
| Humanities Elective Choose one of the following | | |
| FA104 | Introduction to Fine Arts | 3 |
| FA150 | Visual Design: Two Dimensional | 3 |
| FA152 | Visual Design: Three Dimensional | 3 |
| FA155 | Drawing I | 3 |
| FA264 | Painting I | 3 |
| FA382 | Photography II | 3 |

| Nursing (BS) | | Credits |
|---|---|---------|
| MUS101 | Introduction to Music | 3 |
| MUS110 | Basic Theory I | 3 |
| MUS225 | Computer Music I | 3 |
| MUS250 | Afro-American Music in the United States | 3 |
| MUS253 | History of Jazz | 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 | | 23 |
| PSY214 | Lifespan Development for the Health Professions | 3 |
| BIO234 | Anatomy Physiology I | 4 |
| BIO235 | Anatomy Physiology II | 4 |
| BIO265 | Microbiology | 3 |
| BIO382 | Nutrition | 2 |
| NURS200 | Professional Nursing Process | 2 |
| NURS203 | Health Assessment -Wellness Promotion | 5 |
| Major Discipline Requirements | | 55 |
| NURS210 | Fundamentals of Nursing Practice | 5 |
| NURS301 | Values in Transition: Perspectives of Professional Nursing (WI) | 4 |
| BIO336 | Pathophysiology | 3 |
| NURS310 | Nursing Process: Nursing Care of the Child-bearing Client /Family System | 5 |
| NURS314 | Management Leadership in Professional Nursing / Client Intersystem | 3 |
| NURS315 | Professional Nurse-Family and Community Intersystems I | 6 |
| NURS320 | Deviations in Physiological Function I: Nursing Intervention for the Adult/Family client system | 8 |
| NURS340 | Nursing Care of Children: Infancy to Adolescence | 5 |
| NURS405 | Professional Nurse-Family and Community Intersystems II | 6 |
| NURS406 | Professional Nurse-Societal and Community Client Intersystem: Emergent Evolution | 3 |
| NURS407 | Research in Professional Nursing Practice (WI) | 3 |
| NURS430 | Nurse-Client Intersystem: Psychiatric/Mental Health Nursing | 4 |
| Plus 2 credits free electives | | 2 |

** 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). and For information pertaining to these examinations contact:

Excelsior College (Regents College)

7 Columbia Circle
Albany, New York 11203
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)
3343 Peachtree Road NE
Suite 500
Atlanta, GA 30326
Phone - 404-975-5000
Fax - 404-975-5020
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).and 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. and The prerequisite for Human Nutrition (Bio-382) 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 1299.10

Career Description

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 working in both 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, but not limited to: family practice, pediatrics, internal medicine, obstetrics/gynecology, geriatrics, orthopedics, psychiatry 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

1. The Physician Assistant Program is accredited by the Accreditation Review Commission on Education for the Physician Assistant (ARC-PA).
2. 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.
3. **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.
4. **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

Please Note: To receive a complete package of information about the program including an application, please send an email requesting an information package to: paprogram@york.cuny.edu You can also pick up a copy of the package in the PA Program office: SC-112 in the Science Building. The application must be printed, completed, signed and returned to the office to initiate your application. Your application will not be considered complete until all supporting documentation is received (see below).

| Physician Assistant (BS) | | Credit |
|--|---|--------|
| 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 |
| PHIL208 | Biomedical Ethics | 3 |
| HSPA449 | Surgery | 2 |
| HSPA313 | Clinical Skills | 1 |
| Summer Sessions I and II Didactic Year | | 6 |
| HSPA412 | Internal Medicine II | 2 |
| HSPA430 | Primary Care II | 1 |
| HSPA425 | Clinical Correlations | 1 |
| HSPA408 | Psychosocial Dynamics | 1 |
| HSPA435 | Emergency Medicine | 1 |
| Clinical Year (Each rotation in the clinical year is 5 weeks long) | | 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 |

Eligibility For Screening Requires The Following:

Completion of 61 college credits required for screening for admission (Transfer Students must have all prerequisite courses completed). 73 college credits must be completed prior to beginning the PA Program.

Overall Grade Point Average 2.9 minimum. Science Grade Point Average (includes all Biology and Chemistry prerequisites) 2.9 minimum.

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-Organic Chemistry I or 230 and 235 - Essentials of Organic 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 you possess 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 early in the Spring preceding the Fall semester in which they hope to enter the program. The deadline for submission of application and supporting documents is **February 28th in the preceding Spring semester.**

Submission includes:

- Proof of Acceptance to York College for transfer students.
- Transcripts of all previous schools attended for transfer students.
- In addition to submitting copies of the transcripts, transfer students not attending York College at the time of application must request a courtesy transcript evaluation from the York College Registrar's office. **Without the evaluated transcript, no advisement**

or screening can be done by the PA program. It is the student's responsibility to obtain the evaluated transcript and submit it to the program office.

- Three letters of reference: Preferred sources include professors, health care professionals, employers etc.
- Please submit each original letter (copies will be returned) in a sealed envelope, signed across the seal by the reference source to the Admissions Coordinator (address below).

References should be on letterhead of the organization or individual and must provide a contact number.

- Documentation of at least 100 hours of direct patient care experience (*clerical work is not considered health care experience*).
- Documentation of 200 hours is required for admission
- A letter from the Human Resources department, a supervisor, or an administrator will suffice, but should be on letterhead and must document the hours and task performed and include a contact number. Acceptable experience includes volunteer work or employment in hospitals, clinics, private offices or extended care facilities.
- Completed Physician Assistant Program Application
- Personal statement which should be typed, double-spaced, and should convey the candidate's objectives in seeking admission to the PA program, the personal qualities which make the candidate suited to the profession and any other pertinent information to be shared with the admissions committee.

Please limit the statement to 2-3 pages.

All documents should be submitted to:

Attn: Admissions Coordinator
 York College PA Program,
 SC-112 94-20
 Guy Brewer Blvd. Jamaica, NY 11451

Selected students will be invited for an interview. An interview does not guarantee admission into the program. Admission to the PA Program is very competitive. Currently only 30 students are admitted each Fall semester.

Students who have not completed all prerequisite courses at the time of application will be considered only upon submission of a plan of study for the completion of all general education and prerequisite courses prior to Fall of the entering year.

There is no advanced standing in the program regardless of qualifications or experience of the applicant. All candidates must complete the entire 24 month course of study.

Notice to Students on Criminal Background Checks

Current laws generally permit a state licensing board or agency to deny a license to practice if the applicant has been convicted of a felony or other specified crime. Like many state licensing boards, the Office of the Professions of the New York State Education Department requires that a criminal background check be conducted prior to granting a license.

The Department of Health Professions at York College does not require a criminal background check for admittance, but

the Department's educational requirements include placement at one or more hospitals or other off-campus clinical training sites, and these sites frequently require a student to undergo a criminal background check before the student can be placed for clinical training.

If, based upon the results of a criminal background check, the site determines that a student's participation in its clinical training program would not be in the best interest of the site, the site may deny that student admission to the training program. Even if the student has already begun the placement when the results are received, the site may elect to dismiss the student, regardless of the student's performance while in the training program. Each clinical training site that requires a criminal background check sets its own standards and procedures, and you may be asked by the site to pay the cost of the background check. You may also have to complete more than one criminal background check during the course of the Health Professions at York College depending on the number of sites where you are placed and the requirements of each site.

Please note that if a clinical training site determines that you may not take part in its training program based on the results of a criminal background check, you may be unable to complete your course requirements and to continue in the professional program. It is important for you to consider this before you enroll in the Health Professions.

York College has no obligation to refund your tuition or fees or to otherwise accommodate you in the event you are ineligible to complete your course requirements based on the results of a criminal background check, or if you are denied a license to practice.

Acceptance into the Physician Assistant Program

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

- A. Physician Assistant Program Application and three letters of reference
- B. Interview
- C. Grade point average and appropriate courses.
- D. Candidates previous health care experience
- E. Written on-site essay at time of Interview

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.

Promotion and Retention

1. 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.

2. Retention is based on good academic and professional 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 York College 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.

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
- Twilight Medical, PC, New York, NY
- St. Francis Hospital, The Heart Center, Roslyn, NY
- Alan S. Detweiler, D.O., Far Rockaway, NY
- The Holliswood Hospital, Holliswood, NY
- Margaret Tietz Nursing and Rehabilitation Center, Jamaica, NY

Physician Assistant National Certification Examination Results:

- **Class of 2006:** Of the 16 graduates who took the examination, 10 passed on the first attempt, resulting in a first time pass rate of 63%
- **Class of 2007:** Of the 15 graduates who took the examination, 14 passed on the first attempt, resulting in a first time pass rate of 93%.
- **Class of 2008:** Of the 17 graduates who took the examination, 15 passed on the first attempt, resulting in a first time pass rate of 88%
- **Class of 2009:** Of the 18 graduates, 15 have passed on the first attempt, resulting in first time pass rate of 83.3%."

(Some graduates who have failed on the first attempt have passed on subsequent attempts but are not included in the above figures.)

Department of Occupational Therapy

Chair: A. Krauss

Associate Professors: D. Auremma, T. Avi-Itzhak, B. Horowitz, L. Kaplan

Assistant Professors: S. Faust

Lecturer: I. Tilson

Academic Core 1E12 - (p)718-262-2720 (f)718-262-2767

www.york.cuny.edu/occupationaltherapy

occupationaltherapy@york.cuny.edu

Occupational Therapy (BS/MS)

HEGIS CODE 1201/1208

Effective Fall 2010

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.

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

Mission Statement

To provide entry level professional skills in occupational therapy to a diverse urban population through evidence-based educational, fieldwork and community experiences. Graduates will be prepared to contribute to, and participate in the profession through direct service delivery, management of service delivery and research.

Educational Goals

The OT Program will prepare students to:

- Be 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. Identify evaluate and apply research that supports practice decisions.
- 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. Understand and intervene in social policies, communities, organizations, groups and individuals.
- Be role models who demonstrate a commitment to the college, community and the profession.

Curriculum Design

The curriculum design of York College, CUNY Occupational Therapy Program is based on the interaction of content knowledge concepts and occupational therapy process concepts.

It is our belief that the interaction of these delineates the substance and the process of what occupational therapists know

and do. Furthermore, the matrix of these interactions serves as an organizer for the relationship between the courses in our curriculum and the content within them.

| Occupational Therapy (BS/MS) | | Credits |
|---|---|---------|
| 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 |
| OT504 | Advanced Neuroscience | 4 |
| 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 |
| 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 |
| OT644 | Advanced Occupational Therapy Theory Practice | 3 |
| Choose one of the following | | |
| OT645A | Occupational Therapy Practice | 3 |
| OT645B | Occupational Therapy Practice | 3 |
| The Following courses are NOT required for Graduation | | |
| OT446 | Independent Study of Selected Topics in Occupational Therapy | 3 |
| OT646 | Independent Study of Selected Topics in Occupational Therapy | 3 |

Knowledge Concepts

Foundations. Foundational knowledge includes introductory factual and conceptual knowledge related to client factors (e.g., body structures, body functions, values, beliefs), performance skills (e.g., sensory, motor, emotional, cognitive) and patterns (e.g., habits, routines), performance contexts and environments (e.g., cultural, personal, physical), activity demands (e.g., objects properties, space demands, social demands), areas of occupation (e.g., activities of daily living, instrumental activities of daily living, work, education, play), ethics, social justice, clinical management and clinical research.

Skills. Skills build on foundational knowledge, and include the

acquisition and practice of cognitive operations necessary for problem identification and problem resolution, clinical reasoning, as well as analysis of clinical and research data; **procedural** skills necessary for analyzing and sequencing client task performance, administering assessments and interventions, eliciting adaptive responses, implementing activities using effective strategies; affective skills necessary for engaging and enabling client collaboration in the occupational therapy process, receiving and responding to feedback, valuing perspectives of others, weighing ethical issues, and therapeutic use of self; **motor** skills necessary for assisting clients, constructing and adjusting client devices, administering assessments and interventions, and arranging and adapting the physical environment.

Applications. Applied knowledge includes the integration of foundational knowledge and skills, using multiple theoretical approaches (e.g., developmental, motor learning, cognitive-behavioral, prevention) for implementing the occupational therapy process for clients, populations and organizations using various service delivery models (e.g., consultation, rehabilitation, home health, outpatient, community health), with sensitivity for cultural contexts, and social justice. Application also includes analysis and evaluation of client progress, new knowledge acquired from the research literature, and ethical issues associated with the occupational therapy process.

AOTA Commission on Practice. (2008). Occupational Therapy Practice Framework: Domain and Process, 2nd ed., AJOT, 62, 625-683.

Anderson, L.W., Krathwohl, D. R. (2001). A taxonomy for learning, teaching, and assessing: A revision of Bloom's Taxonomy of Educational Objectives. New York: Longman.

The Occupational Therapy Process

Evaluation. Evaluation includes selecting appropriate methods and measures to screen and evaluate individual clients, client populations, environments, and communities for the purpose of identifying occupational problems and potential resolutions. Evaluation also involves the appropriate administration and interpretation of selected tools and methods of assessment, including but not limited to observation, standardized testing and interviews. Evaluation includes measurement and documentation of change.

Intervention. Intervention includes the selection (based on activity analysis) and implementation of preparatory methods (e.g., sensory enrichment, instruction, orthotics), purposeful activities (e.g., practices, rehearsals), and occupation-based tasks (e.g., prepares lunch, completes job application) which are meaningful to the client and consistent with the client's goals. Intervention can also include consultation, education and advocacy.

Outcomes. Outcomes for the individual client must be based on appropriate, reliable and valid measures. Outcomes can also focus on a population, or organization. Outcomes most commonly address occupational performance, participation, quality of life, as well as occupational justice.

AOTA Commission on Practice. (2008). Occupational Therapy Practice Framework: Domain Process, 2nd ed., AJOT, 62, 625-683.

Accreditation and Credentials

1. The Occupational Therapy Program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational

Therapy Association (AOTA), located at 4720 Montgomery Lane, P. O. Box 31220, Bethesda, MD 20824-1220. AOTA's phone number is (301) 652-AOTA.

2. The 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.
3. **Certification:** Upon completion of all requirements, the graduate is permitted to sit for the Certification Examination of the National Board for Certification in Occupational Therapy, Inc.
4. **Licensure:** Upon completion of all requirements, the graduate is permitted to apply to New York State for licensure as a Registered Occupational Therapist.

Effective Fall 2010

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 2.80
- 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*

Note: In order to be eligible for admission to the OT program at York, you must also apply and be accepted for matriculation at York College. In addition, all applicants must pass all skills assessment tests. All General Education Requirements must be registered for or completed by the end of the Spring semester in which the student applies for screening.

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

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

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 2.80 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.

Suggested Course Sequence

| Occupational Therapy (BS/MS) Suggested Course Sequence | | Credits |
|--|--|---------|
| Third Year: | | |
| Fall | | |
| OT 313 | Fundamentals of Occupational Therapy | 3 |
| OT 315 | Functional Human Anatomy / Lecture | 4 |
| OT 322 | Occupation Through the Life Span | 3 |
| OT 321 | Occupational Analysis | 3 |
| Spring | | |
| OT 316 | Functional Human Physiology / Lecture | 4 |
| OT 318 | Clinical Kinesiology / Lecture+Lab | 4 |
| OT 319 | Common Medical Conditions | 3 |
| OT 423 | Collaboration in Occupational Therapy | 4 |
| Fourth Year: | | |
| Fall | | |
| OT 403 | Advanced Occupational Analysis | 3 |
| OT 432 | Neuroscience | 3.5 |
| OT 417 | Research Methods | 3.5 |
| OT 411 | Occupational Therapy Process I: Pediatric Intervention | 4 |
| OT 446 | Independent Study of Selected Topics in Occupational Therapy | 3* |
| Spring | | |
| OT 504 | Advanced Neuroscience | 4 |
| OT 505 | Occupational Therapy Process I: Physical Intervention | 4 |
| OT 508 | Occupational Therapy Process I: Psychosocial Intervention | 4 |
| OT 517 | Research Design | 3 |
| OT 518 | Research Seminar I | 1 |
| Fifth Year: | | |
| Fall | | |
| OT 506 | Occupational Therapy Process II: Physical Intervention | 4 |
| OT 509 (WI) | Occupational Therapy Process II: Psychosocial Intervention | 4 |

| Occupational Therapy (BS/MS) Suggested Course Sequence | | Credits |
|--|---|---------|
| OT 513 | Systems Management | 3 |
| OT 519 | Research Seminar II | 1 |
| OT 646 | Independent Study of Selected Topics in Occupational Therapy | 3* |
| Spring | | |
| OT 641 | Fieldwork II (Full-time Internship Experience) Occupational Therapy Practice I | 1 |
| OT 642 | Fieldwork II (Full-time Internship Experience) Occupational Therapy Practice II | 1 |
| Sixth Year: | | |
| Fall | | |
| OT 522 | Research Seminar IV | 2 |
| OT 643 | Capstone Community Experience | 4 |
| OT 644 | Advanced OT Theory and Practice | 3 |
| OT 645 A or B | Occupational Therapy Practice Seminar | 3 |
| OT total credits in the major required for the BS/MS | | 83 |
| * Not required for graduation | | |

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.

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 2.80 in each semester of their undergraduate coursework (300 and 400 level courses) per semester and 3.0 in each semester of their graduate coursework (500 and 600 level courses) per semester. 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.

*Students will not be allowed to transition from the BS to the MS component of the program with an academic deficit (overall GPA for 300 and 400 level courses must be 2.80).

*Students will not be eligible to graduate with an academic deficit (overall GPA for 500 and 600 level courses must be 3.0)

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" or below 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 II 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 641 642 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

| Affiliation | Clinical Associate |
|---|----------------------------|
| Avalon Gardens Rehab & Healthcare Center | Tami McGowan, OTR/L |
| Barrier Free Living | Patricia Motus, OTR/L |
| Bellevue Hospital Center | Ai Lian Lim, OTR/L |
| Beth Israel Medical Center | Elliot Katz, OTR/L |
| Beth Israel Medical Center/Psych | Mary Petti Weber, OTR/L |
| Brooklyn Community Medical | Miriam Lichter, OTR/L |
| Brooklyn Hospital Center | Beata Nowak |
| Brooklyn VA Medical Center/Psych | Larry Deemer, OTR/L |
| Coler/Goldwater Memorial Hospital | Anu Kukade, OTR/L |
| Coney Island Hospital | Lisa Bosse, OTR/L |
| Creedmoor Psychiatric Center | Curtisse Waddy, OTR/L |
| Cross Roads School | Carolyn Leger, OTR/L |
| Elmhurst Hospital Center | Kishori Mehta, OTR/L |
| EuroFitness Pediatric Rehab Center | Steve Kashulsky, OTR/L |
| Greater Harlem Nursing Home | George Mwangi, OTR/L |
| Harlem Hospital/Rehab. | Suzette Moseley, OTR/L |
| Henry Street Settlement | Melanie Austin, OTR/L |
| Henry Viscardi School | Christopher Marotta, OTR/L |
| Jewish Home & Hospital - Bronx | Glenn Stewart, OTR/L |
| Jewish Home & Hospital - Manhattan | Yolanda Delgado, OTR/L |
| Kidz Therapy Services | Christina Davis, OTR/L |
| Kingsbrook Medical Center | Jangir Sultan, OTR/L |
| Long Island Jewish/Hillside Medical Center | Loretta Cummins OTR/L |
| Lutheran Medical Center | Romana Ahmad, OTR/L |
| Manhattan Psychiatric Center | Colette Noel, OTR/L |
| Mercy Medical Center | Sandy Abolafia |
| Metropolitan Hospital Center | Frances Gary Blount, OTR/L |
| Northshore University Hospital (Glen Cove) | Caralynn Ross, OTR/L |
| New York State Psychiatric Institute | Elaine Mullen, OTR/L |
| NYU - Rusk Institute for Rehab Medicine | Nandita Singh, OTR/L |
| Peninsula Hospital | Caroline Craft, OTR/L |
| Positive Beginnings | Rose Tanis, OTR/L |
| Queens Boulevard Extended Care Facility | Haddassah Zern, OTR/L |
| Queens Hospital Center | Bernadita Sapugay, OTR/L |
| Shorefront Center for Rehabilitation and Care | Raquel Galan, OTR/L |
| St. Luke's Hospital/Psych | Alison Rangel, OTR/L |
| South Oaks Hospital/Psych | Fran Babiss, OTR/L |
| St. Barnabas Hospital | Michelle Chin, OTR/L |
| The Summit School | Jeanette Hutter, OTR/L |
| Transitions of Long Island | Patricia Kearney, OTR/L |
| Village Care of New York | Patricia Motus, OTR/L |

Department of Social Sciences

Chair: G. Acker

Professors: V. Ashton, W. Divale, B. Rosenthal

Associate Professors: M. Araya, S. Letteney, V. Moldovan, B. Oglensky

Assistant Professors: M. Gregory, E. Klugh, T. Levey, R. Rivera-Maestre, S. Rodgers, M. Schuller, X. Zhang

Academic Core - 3FoI (p) 718-262-2605 (f)718-262-3790

www.york.cuny.edu/socialsciences

social-sciences@york.cuny.edu

African-American Studies (BA)

HEGIS CODE 2211

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

The Program has the following objectives:

- 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 African-American Studies Club, and other student and community organizations through joint cultural activities, adult education, lectures, and tutorials.
- To reinforce curricula in other programs of study.

| African-American Studies (BA) | | Credits |
|---|--|---------|
| Major Requirements** | | 30 |
| Required Foundation Courses | | 21 |
| AAS172 | Introduction to Africa | 3 |
| AAS242 | The Black Family | 3 |
| AAS265 | Black Revolutionary Thought | 3 |
| HIST276 | African History From 1800 | 3 |
| AAS325 | Historiography in Black Studies | 3 |
| AAS401 | Seminar | 3 |
| ANTH241 | Ethnology of Africa | 3 |
| Electives (9 Credits) At least six (6) credits at 300 level; but not more than six (3) credits in African-American Studies courses. | | 9 |
| AAS101 | Introduction to African-American Studies | 3 |
| AAS203 | Famous Black Men and Women | 3 |
| AAS220 | Western African Literature in English | 3 |
| AAS230 | The Contemporary African | 3 |

| African-American Studies (BA) | | Credits |
|-------------------------------|---|---------|
| AAS243 | The Black Ghetto | 3 |
| AAS245 | The Black Church | 3 |
| AAS261 | Folklore: the African in America | 3 |
| AAS285 | The Urbanization of the American Black | 3 |
| AAS322 | Caribbean Literature (In Translation) | 3 |
| AAS323 | Mass Media and the Black Community | 3 |
| AAS331 | The Civil Rights Movement in America | 3 |
| AAS341 | Black Experience in the Caribbean | 3 |
| AAS342 | Third-World Consciousness in Africa | 3 |
| AAS343 | The Contemporary Black Experience in South Africa | 3 |
| AAS354 | The Role of Blacks in the American Economy | 3 |
| AAS360 | Black American Culture | 3 |
| ANTH220 | Social Research I | 3 |
| ENG392 | African-American Literature | 3 |
| FA296 | African Art | 3 |
| FA398 | Afro-American Art | 3 |
| HIST272 | African-American History | 3 |
| HIST274 | The American Ethnic Experience | 3 |
| HIST275 | African History Until 1800 | 3 |
| HIST313 | The Civil War | 3 |
| MUS250 | Afro-American Music in the United States | 3 |
| MUS253 | History of Jazz | 3 |
| POL256 | African Politics | 3 |
| SCWK350 | Social Research I | 3 |
| SOC220 | Social Research I | 3 |
| SOC366 | Sociology of Modernization and Development | 3 |

**Majors should begin work on the General Education requirements and immediately and complete them as soon as possible. They are also advised to consult the Coordinator in order to be able to make a coherent case for the course of electives they propose. The African-American Studies Program strongly recommends that both majors and minors take Swahili 101 and 102; both courses may be used to satisfy the foreign language requirement. For those who may have fulfilled the requirement prior to coming to York College, the AAS Program recommends that Swahili 101, 102 be part of electives chosen.

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

African-American Studies (Minor)

The African-American Studies 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.

| African-American Studies (Minor) | | Credits |
|--|---------------------------------|---------|
| 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 |

| African-American Studies (Minor) | | Credits |
|--|---|---------|
| ANTH241 | Ethnology of Africa | 3 |
| Three (3) credits at 300 level from Section B of African-American Studies Major. | | 3 |
| AAS322 | The Caribbean Literature (in Translation) | 3 |
| AAS323 | Mass Media and the Black Community | 3 |
| AAS331 | The Civil Rights Movement in America | 3 |
| AAS341 | Black Experience in the Caribbean | 3 |
| AAS342 | Third-World Consciousness in Africa | 3 |
| AAS343 | The Contemporary Black Experience in South Africa | 3 |
| AAS354 | The Role of Blacks in the American Economy | 3 |
| AAS360 | Black American Culture | 3 |
| ENG392 | African-American Literature | 3 |
| FA398 | African-American Art | 3 |
| HIST313 | The Civil War | 3 |
| SOC366 | Sociology of Modernization and Development | 3 |

**Majors should begin work on the General Education requirements and immediately complete them as soon as possible.

They are also advised to consult the Coordinator in order to be able to make a coherent case for the course of electives they propose. The African-American Studies Program strongly recommends that both majors and minors take Swahili 101 and 102; both courses may be used to satisfy the foreign language requirement.

For those who may have fulfilled the requirement prior to coming to York College, the AAS Program recommends that Swahili 101, 102 be part of electives chosen. 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.

| Anthropology (BA) | | Credits |
|--|---------------------------------------|---------|
| Effective Fall 2010 | | |
| Major Discipline Requirements (30 Credits) | | |
| Required Courses 12 Credits | | 12 |
| ANTH101 | Introduction to Cultural Anthropology | 3 |
| ANTH220 | Social Research I | 3 |
| ANTH321 | Social Research Methods II | 3 |
| OR | | |
| ANTH310 | Techniques of Cross-Cultural Research | 3 |

| Anthropology (BA) | | Credits |
|---|-------------------|---------|
| ANTH490 | Independent Study | 3 |
| Six elective courses in Anthropology, Sociology, or African American Studies (At least three courses must be in Anthropology, and at least three of the six courses must be numbered 300 or higher) | | 18 |

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)

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.

| Anthropology (Minor) | | Credits |
|---|---------------------------------------|---------|
| Requirements | | 15 |
| ANTH101 | Introduction to Cultural Anthropology | 3 |
| Four additional courses in Anthropology | | 12 |

Medical Anthropology (Minor)

| Medical Anthropology (Minor) | | Credits |
|------------------------------|-------------------------------------|---------|
| Requirements 15 Credits | | 15 |
| Required Courses 6 credits | | 6 |
| ANTH151 | Medical Anthropology | 3 |
| SOC245 | Medical Sociology | 3 |
| Choose 3 from the following | | 9 |
| ANTH201 | Ethnopsychiatry | 3 |
| ANTH205 | Anthropology of Sex | 3 |
| ANTH301 | Alcoholism Obesity Cross-Culturally | 3 |
| ANTH303 | Food Culture | 3 |
| ANTH442 | Culture Personality | 3 |

Urban Anthropology (Minor)

| Urban Anthropology (Minor) | | Credits |
|-------------------------------|---|---------|
| Effective Fall 2010 | | |
| Requirements | | 15 |
| Required Courses (9) credits | | 9 |
| ANTH223 | The Rise of Civilization | 3 |
| ANTH311 | Urban Anthropology | 3 |
| SOC289 | Urban Sociology | 3 |
| Choose two from the following | | 6 |
| AAS285 | The Urbanization of the American Black | 3 |
| HIST202 | The Emergence of Urban America | 3 |
| SOC366 | Sociology of Modernization Development | 3 |
| ANTH490 | Independent Field Study in Urbanization | 3 |

Social Work (BS)

HEGIS CODE 2104

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:

1. Admission to the Social Work Program;
2. Admission to Social Work Field Education.

Students also must satisfy retention criteria.

| Social Work (BS) | | Credit |
|---|--|--------|
| 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 |

* 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:

1. Matriculation at York College with a major in Social Work
2. Completion of 61 or more credits
3. A cumulative GPA of 2.50 or better
4. A grade of "C" or better for all social work courses
5. A completed application form
6. Adherence to the National Association of Social Workers (NASW) Code of Ethics and to the York College Code of Conduct
7. 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
8. A letter of acceptance into the Social Work Program from the Director of the Social Work Program.

Retention in the Social Work Program

The criteria for retention in the Social Work Program are:

1. A grade of "C" or better in each Social Work course. Students who earn an unacceptable grade in a Social Work course have one chance to repeat the course and earn an acceptable grade. Faculty permission is required to repeat Social Work 410 or 492.
2. Maintenance of a cumulative GPA of 2.50 or better. (In order to graduate, Social Work majors must have a GPA of 2.50 or better).
3. Adherence to the National Association of Social Workers (NASW) Code of Ethics and to the York College Code of Conduct.

Failure to meet any one of the 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:

1. Admission to the Social Work Program
2. A cumulative York College GPA of 2.50 or better

1. A grade of “C” or better for all social work courses
2. Successful completion of 94 or more credits by the end of the semester in which the student applies
3. A completed application form
4. 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.

| Sociology (BA) | | Credits |
|---|------------------------|---------|
| 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)

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.

| Sociology (Minor) | | Credits |
|-------------------|-------------------------------------|---------|
| SOC101 | Introduction to Sociology | 3 |
| SOC201 | Sociological Analysis | 3 |
| | Any 200 level Sociology course | 3 |
| | Any (2) 300 level Sociology courses | 6 |

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 cross-cultural awareness and knowledge about social issues are desired.

Academic Development (Preparatory Program)

| Academic Development (Preparatory Program) | | Credits |
|--|---|---------|
| AD102 | Psychological, Social and Academic Development | 2 |
| SD110 | Developing Coping Strategies for Academic Success | 1 |

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 adviser (Dr. William Divale, divale@york.cuny.edu, rm. 3A01) before beginning this program and registering for classes.

| Survey Research (Certificate Program) | | Credits |
|---------------------------------------|---|---------|
| 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: L. Baron

Associate Professor: L. Gerena

Assistant Professors: X. Bai, C. Clay, L. Keiler, J. Keleher

Substitute Clinical Professor: R. Calderin

Professor Emeritus: W. Shilling

Academic Core 1D12 (p) 718-262-2450 (f) 718-262-2454

www.york.cuny.edu/teacher-ed

teacher-ed@york.cuny.edu

DEPARTMENTAL MISSION:

*Excellence through Diversity of Knowledge,
Culture & 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
- Childhood Education Program with a Middle School Extension (BA)
- Teacher Education, in Biology, Chemistry, or Earth Science, Grades 7-12
- Teacher Education Program in Childhood Education with a Bilingual Extension (Spanish/English) Grades 1-6

- 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:

Department of Teacher Education

Academic Core Building, 1D12

Jamaica, NY 11451

718-262-2450

Email: teachered@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

Childhood Education Program with a Middle School Extension (BA)

| Childhood Education Program with a Middle School Extension (BA) | | Credits |
|---|--|---------|
| Effective Fall 2010 | | |
| Requirements | | 43 |
| AC230 | Teaching with Multimedia Technology* | 2 |
| MATH271 | Mathematics for Elementary School Teachers | 4 |
| EDUC268 | Teaching and Linguistically Diverse Student in Bilingual and Mainstream Classes | 2 |
| EDUC280 | Child and Adolescent Development for Teachers | 3 |
| EDUC283 | Educational Psychology: Effective Teaching/Learning | 3 |
| EDUC284 | Field Experience in Teaching and Learning | 1 |
| 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 |
| EDUC369 | Language and Literacy Instruction in the Emergent and Primary Years (WI) | 3 |
| EDUC370 | Content Area Literacy Instruction For Mainstream English Only (EO) and English Language Learners (ELLs) Grades 2-6 | 3 |
| 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 |

*Students who do not evidence technology competencies may need to take AC101 in order to graduate.

Teacher Education Program in Childhood Education, Grades 1-6 (BA)

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: African-American Studies, Anthropology, Biology, Economics, English, French, History, Mathematics, Music, Philosophy, Political Science, Psychology, Sociology, Spanish, and Speech/ Communication and Theater Arts.

| Teacher Education Program in Childhood Education, Grades 1-6 (BA) | | Credits |
|---|--|---------|
| Education Course Requirements | | 38 |
| Foundations Sequence | | 18 |
| AC230 | Teaching with Multimedia Technology* | 2 |
| EDUC268 | Teaching the Linguistically Diverse Student in Bilingual and Mainstream Classes | 2 |
| EDUC280 | Child and Adolescent Development for Teachers | 3 |
| EDUC283 | Effective Teaching and Learning | 3 |
| EDUC284 | Field Experience in Teaching and Learning | 1 |
| MATH271 | Mathematics for Elementary School Teachers | 4 |
| Choose one of the Following | | |
| PHIL202 | Major Ideas and Issues in Education | 3 |
| SOC202 | Major Ideas and Issues in Education | 3 |
| Professional Education Sequence | | 14 |
| 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 |
| EDUC369 | Language and Literacy Instruction in the Emergent and Primary Years (WI) | 3 |
| EDUC370 | Content Area Literacy Instruction for Mainstream English Only (EO) and English Language Learners (ELL's), Grades 2-6 | 3 |
| Student Teaching and Student Teaching Seminar | | |
| EDUC431 | Supervised Student Teaching, Grades 1-3 | 3 |
| EDUC432 | Supervised Student Teaching, Grades 4-6 | 3 |

* Students who do not evident technology competencies may need to take AC101 in order to graduate.

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.

| Teacher Education Program in Childhood Education with a Bilingual Extension (Spanish/English) Grades 1-6 (BA) | | Credits |
|---|--|---------|
| Effective Fall 2010 | | |
| Education Course Requirements | | 40-41 |
| Foundations Sequence | | 16-17 |
| EDUC268 | Teaching the Linguistically Diverse Student in Bilingual and Mainstream Classes | 2 |
| EDUC280 | Child and Adolescent Development for Teachers | 3 |
| EDUC283 | Educational Psychology: Effective Teaching and Learning | 3 |
| EDUC 284 | Field Experience in Teaching and Learning | 1 |
| AC230 | Teaching with Multimedia Technology** | 2 |
| MATH271 | Mathematics for Elementary School Teachers | 4 |
| Choose one of the following | | |
| PHIL202 | Major Ideas and Issues in Education | 3 |
| SOC202 | Major Ideas and Issues in Education | 3 |
| Professional Education Sequence | | 19 |
| 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 |
| EDUC351 | Teaching Reading and Spanish Language Arts in Bilingual Contexts | 3 |
| EDUC369 | Language and Literacy Instruction in the Emergent and Primary Years (WI) | 3 |
| EDUC370 | Content Area Literacy Instruction for Mainstream English Only (EO) and English Language Learners (ELLs) Grades 2-6 | 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.

**Students who do not evidence technology competencies may need to take AC 101 in order to graduate.

Certificate Program Child and Youth Workers (Certificate Program)

| Certificate Program Child and Youth Workers (Certificate Program) | | Credits |
|---|--|----------------|
| Certificate Program for Child and Youth Workers Course Requirements 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 crs.

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.

African-American Studies

AAS101 (Liberal Arts) *Introduction to African-American Studies* 3 hrs. 3 cr. The human condition and experience of Black people in the United States; emphasis on cultural and historical perspectives.

AAS172 (Liberal Arts) *Introduction to Africa* 3 hrs. 3 cr. 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 (Liberal Arts) *Famous Black Men and Women* 3 hrs. 3 cr. 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. *Preq. ENG 125, and any six credits from the following: AAS 101, AAS 172, ANTH 101, CLDV 201, HIST 272, SOC 101. Not offered on a regular basis. Availability to be determined by the department.*

AAS220 (Liberal Arts) *Western African Literature in English* 3 hrs. 3 cr. 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. *Preq. AAS 172 and ENG 125. Not offered on a regular basis. Availability to be determined by the department.*

AAS230 (Liberal Arts) *The Contemporary African* 3 hrs. 3 cr. 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. *Preq. AAS 172 and ENG 125. Not offered on a regular basis. Availability to be determined by the department.*

AAS242 (Liberal Arts) *The Black Family* 3 hrs. 3 cr. 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. *Preq. AAS 101 and ENG 125.*

AAS243 (Liberal Arts) *The Black Ghetto* 3 hrs. 3 cr. 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. *Preq. AAS 101. Not offered on a regular basis. Availability to be determined by the department.*

AAS245 (Liberal Arts) *The Black Church* 3 hrs. 3 cr. 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. *Preq. AAS 101 and ENG 125.*

AAS261 (Liberal Arts) *Folklore: The African in America* 3 hrs. 3 cr. Exploration, through folklore, of the origin and continuity from an African to an American setting of certain patterns of behavior to Black group life. *Preq. ENG 125, and any six credits from the following: AAS 101, AAS 172, ANTH 101, CLDV 201, HIST 272, SOC 101. Not offered on a regular basis. Availability to be determined by the department.*

AAS265 (Liberal Arts) *Black Revolutionary Thought* 3 hrs. 3 cr. 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. *Preq. ENG 125, and AAS 101 or AAS 172.*

AAS285 (Liberal Arts) *The Urbanization of the American Black* 3 hrs. 3 cr. 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. *Preq. AAS 101 and ENG 125. Not offered on a regular basis. Availability to be determined by the department.*

AAS322 (Liberal Arts) *Caribbean Literature (In Translation)* 3 hrs. 3 cr. 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. *Preq. Junior status or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.*

AAS323 (Liberal Arts) *Mass Media and the Black Community* 3 hrs. 3 cr. Critical examination of the role of mass media plays in the African-American community, focusing on ownership, access and image making. *Preq. Junior status and ENG 125.*

AAS325 (Liberal Arts) *Historiography in Black Studies* 3 hrs. 3 cr. 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. *Preq. ENG 125, and any twelve credits from the following: AAS 101, AAS 172, ANTH 101, CLDV 201, HIST 272, SOC 101, POL 101.*

AAS331 (Liberal Arts) *The Civil Rights Movement in America* 3 hrs. 3 cr. An examination of the major events, key personalities, and organizations in the history of the movement. *Preq. ENG 125, and AAS 101 or HIST 272.*

AAS341 (Liberal Arts) *Black Experience in the Caribbean* 3 hrs. 3 cr. A basic historical examination of the African experience in the Caribbean; emphasis on the political, economic and social problems facing the region. *Preq. ENG 125, and ANTH 243 or AAS 101 and AAS 172.*

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** Courses identified NOT Liberal Arts in addition to courses identified with an ✘ CANNOT be used as Liberal Arts by ACCOUNTING MAJORS.

AAS342 (Liberal Arts) *Third-World Consciousness in Africa* 3 hrs. 3 cr. 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. *Preq.* ENG 125, AAS 101 and AAS 172. *Not offered on a regular basis. Availability to be determined by the department.*

AAS343 (Liberal Arts) *The Contemporary Black Experience in South Africa* 3 hrs. 3 cr. 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. *Preq.* ENG 125, AAS 101 and AAS 172

AAS354 (Liberal Arts) *The Role of Blacks in the American Economy* 3 hrs. 3 cr. 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. *Preq.* AAS 285. *Not offered on a regular basis. Availability to be determined by the department.*

AAS360 (Liberal Arts) *Black American Culture* 3 hrs. 3 cr. The evolution of Black-American culture and its effects on American cultural, political, social and economic life. *Preq.* AAS 285. *Not offered on a regular basis. Availability to be determined by the department.*

AAS364 (Liberal Arts) *Social Movements in the African Diaspora* 3 hrs. 3 cr. This course provides a transitional overview of African peoples' movements of resistance to systems of oppression; maroon communities, slave revolts, the Haitian Revolution, the U.S. Civil War, African and Caribbean independence struggles, black nationalism, the civil rights movement, the divestment campaign against apartheid South Africa, global justice, debt cancellation, affirmative action struggles, neighborhood organizing, and blacks' participation and autonomous contributions to broader coalitions addressing housing, education and welfare rights. *Preq.* AAS 101, WRIT 310, 302 OR 303 *Crosslisted as ANTH 364, THIS IS A WRITING INTENSIVE COURSE.*

AAS401 (Liberal Arts) *Seminar* 3 hrs. 3 cr. Selected topics, announced each semester, on contemporary Black Africa and Black America. *Preq.* WRIT 301, and *Senior status or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.*

Academic Computing

AC101 *Computer Literacy* 1.5 hrs. 1 cr. Hands-on introduction to the components and operation of computers. 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. *Preq.* 30 minutes lecture, 1 hour laboratory. *This course may be offered as a Hybrid Course*

AC102 *Introduction to Microcomputers II* 3 hrs. 1 cr. 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. *Preq.* AC 101. 1 hour lecture, 2 hours laboratory for seven weeks plus two additional laboratory hours TBA.

AC201 *Computer Applications* 3 hrs. 3 cr. 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. *Preq.* AC 101, and *Sophomore status. Students will be required to complete weekly assignments using the microcomputer.*

AC230 *Teaching with Multimedia Technology* 4 hrs. 2 cr. 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. *Preq.* AC 101. *Not open to students with credit in AC 250. This course may be offered as a Hybrid Course.*

Accounting

ACC101 *Principles of Accounting I* 4 hrs. 4 cr. Fundamental accounting theory and practice; entry and posting of typical transactions: trial balances and work sheets; inventory; fixed assets, depreciation; income statements; and balance sheets. (Formerly ECON 182)

ACC102 *Principles of Accounting II* 4 hrs. 4 cr. Current liabilities; partnerships; corporations; analyzing financial statements; cash flow statements; recording bond transactions; stocks and bonds as investments; accounting principles; accounting for notes and accounts receivable, accounting for payroll. *Preq.* ACC 101. (Formerly ECON 183)

ACC103 *Principles of Managerial Accounting* 4 hrs. 4 cr. An introductory course in managerial accounting for non-accounting majors. Emphasis is placed on the use and analysis of accounting data for management decision-making. *Preq.* ACC 101

ACC201 *Intermediate Accounting I* 4 hrs. 3 cr. Analysis of current accounting concepts and standards underlying reporting income, cash flow, and financial position; includes cash; receivables; inventories; revenue recognition; pronouncements of official bodies. ECON 103, ECON 220, ENG 125, MATH 115, BUS 201, BUS 283, ACC 102, (Formerly ECON 280)

ACC202 *Intermediate Accounting II* 4 hrs. 3 cr. In depth analysis of the balance sheet; topics include plant assets; depreciation; intangibles; current liabilities and contingencies; stockholders' equity; partnership formation and dissolution, dilutive securities and EPS ECON 103, ECON 220, ENG 125, MATH 115, BUS 201, BUS 283, ACC 201 (Formerly ECON 286)

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** Courses identified **NOT** Liberal Arts in addition to courses identified with an **X** **CANNOT** be used as Liberal Arts by **ACCOUNTING MAJORS**.

ACC203 Intermediate Accounting III 4 hrs. 3 cr. Analysis of present value techniques and related accounting applications including long term liabilities, pensions, leases, and long term investments; complex cash flow statements; accounting for changes and error correction; and accounting for income taxes. *Preq.* EON 103, ECON 220, ENG 125, MATH 115, BUS 201, BUS 283, ACC 201

ACC210 Computer Applications in Accounting 4 hrs. 3 cr. 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. *Preq.* ACC 102 and BUS 201. 2 hours lecture, 2 hours laboratory.

ACC238 Fraud Examination 3 hrs. 3 cr. Fraud examination will cover the principles and methodology of fraud detection and deterrence. The course includes such topics as skimming, cash larceny, check tampering, register disbursement schemes, billing schemes, payroll and expense reimbursement sc *Preq.* ACC 102

ACC240 International Accounting 3 hrs. 3 cr. This course examines the international dimensions of financial accounting and reporting, and trends in global accounting convergence. Topics include: causes and examples of international accounting differences; international harmonization of financial reporting; international financial statements analysis; and accounting rules and practices in Europe and Asia. *Preq.* ACC 201.

ACC301 Advanced Financial Accounting 4 hrs. 4 cr. Advanced financial accounting theory and practice: combinations, investor accounting, consolidations, governmental and not-for-profit accounting. Emphasis on professional pronouncements and CPA examination problems *Preq.* ACC 202.

ACC335 Auditing I 3 hrs. 3 cr. Analysis of auditing concepts, standards, procedures, ethics, responsibility, independence of public accountants, audit program, scope, evidence, and statistical sampling. *Preq.* ACC 202.

ACC336 Auditing II 2 hrs. 2 cr. 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 judgment, quality, and appreciation of internal control, auditing techniques, practice and report writing. *Preq.* ACC 335.

ACC345 Cost Accounting 3 hrs. 3 cr. Analysis of cost accounting methods and procedures, including job order costing, flexible budgeting, standard costing, cost allocation, direct costing, joint and by products, and cost-volume-profit relationships, and Activity based Cost. Emphasis on accounting for cost as a managerial tool for analyzing and controlling costs, decision making and planning. *ECON 103, ECON 220, ENG 125, MATH 115, BUS 201, BUS 283, ACC 201*

ACC346 Cost Accounting II 2 hrs. 2 cr. 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. *Preq.* ACC 345.

ACC350 Income Taxation 3 hrs. 3 cr. Concepts and laws of taxable income, exemptions and deductions; emphasis on Federal and State income taxes including practical exercises. *Preq.* ACC 201. (Formerly ECON 285) *Students with credit in ACC 250 should substitute ACC 351 for ACC 350.*

ACC351 Advanced Income Taxation 4 hrs. 4 cr. Advanced Income Taxation including discussions of advanced corporate, foreign, estate and gift taxation, and other specialized areas. *Preq.* ACC 350. *Requires preparing a research paper.*

ACC355 Taxation of Trusts and Estates 3 hrs. 3 cr. 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. *Preq.* ACC 350 or equivalent. 3 hours lecture.

ACC381 Advanced Accounting Problems 3 hrs. 3 cr. 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. *Preq.* ACC 301.

Anthropology

ANTH101 (Liberal Arts) Introduction to Cultural Anthropology 3 hrs. 3 cr. 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 (Liberal Arts) Introduction to Physical Anthropology and Archaeology 4 hrs. 3 cr. 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 (Liberal Arts) Medical Anthropology 3 hrs. 3 cr. 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 (Liberal Arts) Ethnopsychiatry 3 hrs. 3 cr. 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. *Preq.* ANTH 101 or ANTH 152, or PSY 102, or PSY 110. *Not offered on a regular basis. Availability to be determined by the department.*

*Courses which are liberal arts for all students are identified as: (Liberal Arts)

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ANTH205 (Liberal Arts) *Anthropology of Sex* 3 hrs. 3 cr. 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. *Preq.* ANTH 101. *Not offered on a regular basis. Availability to be determined by the department.*

ANTH211 (Liberal Arts) *Anthropology and City Life* 3 hrs. 3 cr. 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. *Preq.* ANTH 101. *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 (Liberal Arts) *Social Research I* 4 hrs. 3 cr. 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. *Preq.* ANTH 101. *2 hours lecture, 2 hours laboratory.*

ANTH222 (Liberal Arts) *The Archaeology of Early Man* 3 hrs. 3 cr. Biological, cultural and behavioral evolution from human origins to the beginnings of food production in the New and Old World. *Preq.* ANTH 103 or permission of instructor. *Field trips may be required. Not offered on a regular basis. Availability to be determined by the department.*

ANTH223 (Liberal Arts) *The Rise of Civilization* 3 hrs. 3 cr. 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. *Preq.* ANTH 103 or permission of instructor. *Field trips may be required. Not offered on a regular basis. Availability to be determined by the department.*

ANTH234 (Liberal Arts) *Applied Anthropology* 3 hrs. 3 cr. 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. *Preq.* *Not offered on a regular basis. Availability to be determined by the department.*

ANTH235 (Liberal Arts) *Economic Anthropology* 3 hrs. 3 cr. Economic life and systems of pre-industrial and peasant societies with emphasis on the integration of economy and technology with social and political institutions. *Preq.* ANTH 101, or ECON 101, or ECON 102. *Not offered on a regular basis. Availability to be determined by the department.*

ANTH241 (Liberal Arts) *Ethnology of Africa* 3 hrs. 3 cr. Survey of traditional and contemporary societies of Africa; their exposure to a changing world and their responses. *Preq.* ANTH 101. *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.*

ANTH242 (Liberal Arts) *Ethnology and Ethnography of Major Culture Areas Asia* 3 hrs. 3 cr. Survey of traditional and contemporary societies of a given area; their exposure to a changing world and their responses. *Preq.* ANTH 101. *Not offered on a regular basis. Availability to be determined by the department.*

ANTH243 (Liberal Arts) *Ethnology and Ethnography of Major Culture Areas: The Caribbean* 3 hrs. 3 cr. Survey of traditional and contemporary societies of a given area; their exposure to a changing world and their responses. *Preq.* ANTH 101. *Not offered on a regular basis. Availability to be determined by the department.*

ANTH244 (Liberal Arts) *Ethnology of Latin America* 3 hrs. 3 cr. Survey of traditional and contemporary societies of Latin America; their exposure to a changing world and their responses. *Preq.* ANTH 101. *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.*

ANTH245 (Liberal Arts) *Ethnology and Ethnography of Major Culture Areas: The Mediterranean, Middle East* 3 hrs. 3 cr. Survey of traditional and contemporary societies of a given area; their exposure to a changing world and their responses. *Preq.* ANTH 101. *Not offered on a regular basis. Availability to be determined by the department.*

ANTH246 (Liberal Arts) *Ethnology and Ethnography of Major Culture Areas North American Indians* 3 hrs. 3 cr. Survey of traditional and contemporary societies of a given area; their exposure to a changing world and their responses. *Preq.* ANTH 101. *Not offered on a regular basis. Availability to be determined by the department.*

ANTH247 (Liberal Arts) *Ethnology and Ethnography of Major Culture Areas Oceania* 3 hrs. 3 cr. Survey of traditional and contemporary societies of a given area; their exposure to a changing world and their responses. *Preq.* ANTH 101. *Not offered on a regular basis. Availability to be determined by the department.*

ANTH248 (Liberal Arts) *Ethnology and Ethnography of Major Culture Areas Europe* 3 hrs. 3 cr. Survey of traditional and contemporary societies of a given area; their exposure to a changing world and their responses. *Preq.* ANTH 101. *Not offered on a regular basis. Availability to be determined by the department.*

ANTH249 (Liberal Arts) *Anthropology of Puerto Rico* 3 hrs. 3 cr. 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. *Preq.* ANTH 101. *Not offered on a regular basis. Availability to be determined by the department.*

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ANTH250 (Liberal Arts) *Ethnic America* 3 hrs. 3 cr. This course studies the influence of the major ethnic and cultural migrations to the Americas. What skills did they bring with them that allowed for varying acculturation success? What influence have they had on American culture? *Preq. ANTH 101 and ENG 125 Can be offered as a face-to-face course, a Hybrid course or as a fully onlien asynchronous course.*

ANTH270 (Liberal Arts) *Introduction to Ethnomusicology* 3 hrs. 1 cr. 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 Ame *Preq. ENG 125 Cross-listed as MUS 270. This is a writing intensive course.*

ANTH301 (Liberal Arts) *Alcoholism and Obesity Cross-Culturally* 3 hrs. 3 cr. The occurrence of alcoholism and compulsive overeating in primitive, peasant, and industrial societies and their relationship to cultural stress factors. *Preq. ANTH 101 or ANTH 152 or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.*

ANTH302 (Liberal Arts) *Anthropology of Aging* 3 hrs. 3 cr. 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. *Preq. One introductory course from any of the behavioral sciences. Not offered on a regular basis. Availability to be determined by the department.*

ANTH303 (Liberal Arts) *Food and Culture* 3 hrs. 3 cr. Food is not only something we we eat, it is something we use to define ourselves. Ingestion and incorporation are central to our connection with the world outside our bodies. Food's powerful social, economic, political and symbolic roles cannot be ignored--what we eat is a marker of power, culturale capital, class, ethnic and racial identity. This course will consider the ways in which popular culture reveals our relationship with food and our own bodies how these have become and arena for political and ideological battles. The course will address issues around food, culture and gender. *Preq. ANTH 101 and WRIT 301 or 302 or 303 This course can be offered as a face-to-face course, a hybrid course, or as a fully online asynchronous course.*

ANTH310 (Liberal Arts) *Techniques of Cross-Culture Research* 3 hrs. 3 cr. 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. *Preq. One introductory course from either anthropology, psychology or political science. Not offered on a regular basis. Availability to be determined by the department.*

ANTH311 (Liberal Arts) *Urban Anthropology* 3 hrs. 3 cr. 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. *Preq. ANTH 101 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.*

ANTH315 (Liberal Arts) *Hunger and Agriculture in Developing Nations* 3 hrs. 3 cr. 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. *Preq. ANTH 101. 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.*

ANTH321 (Liberal Arts) *Social Research II* 3 hrs. 3 cr. 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. *Preq. ANTH 220 or SOC 220 or SCWK 350.*

ANTH350 (Liberal Arts) *Anthropology of Tourism* 3 hrs. 3 cr. The study of tourism and its role in acculturation, modernization, and economic development. *Preq. ANTH 101 or permission of the instructor. Not offered on a regular basis. Availability to be determined by the department.*

ANTH361 (Liberal Arts) *Primitive Social Organization* 3 hrs. 3 cr. Study of the origins and functions of marriage, the family, and kinship in human societies. Study of cultural evolution. *Preq. ANTH 101. Not offered on a regular basis. Availability to be determined by the department.*

ANTH362 (Liberal Arts) *Social Organization of Complex Societies* 3 hrs. 3 cr. Analysis of complex socio-political systems, including feudal societies, bureaucratic empires, capitalist and socialist states. *Preq. ANTH 101. Not offered on a regular basis. Availability to be determined by the department.*

ANTH363 (Liberal Arts) *Political Anthropology* 3 hrs. 3 cr. Anthropological approaches to political structure, process, and change; theories of political evolution and the cross-cultural variability of political systems. *Preq. ANTH 101. Not offered on a regular basis. Availability to be determined by the department.*

ANTH365 (Liberal Arts) *Cultural Systems of Population Control* 3 hrs. 3 cr. Comparative analysis of cultural responses to problems of a severe population deficit and surplus in simple and complex societies. *Preq. ANTH 101 or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.*

ANTH380 (Liberal Arts) *Theory and Method in Anthropology* 3 hrs. 3 cr. The development of anthropological theory and research methods, and the interrelationship of particular schools of thought with particular methods. *Preq. ANTH 101 and sophomore status. Not offered on a regular basis. Availability to be determined by the department.*

ANTH393 (Liberal Arts) *Anthropology of Religion* 3 hrs. 3 cr. 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. *Preq. ANTH 101. Not offered on a regular basis. Availability to be determined by the department.*

*Courses which are liberal arts for all students are identified as: (Liberal Arts)

** Courses identified NOT Liberal Arts in addition to courses identified with an ✖ CANNOT be used as Liberal Arts by ACCOUNTING MAJORS.

ANTH401 (Liberal Arts) Seminar in Anthropology 3 hrs. 3 cr. Selected topics in Anthropology announced prior to registration. *Not offered on a regular basis. Availability to be determined by the department.*

ANTH402 (Liberal Arts) Seminar in Anthropology 3 hrs. 3 cr. Selected topics in Anthropology announced prior to registration. *Not offered on a regular basis. Availability to be determined by the department.*

ANTH403 (Liberal Arts) Seminar in Anthropology 3 hrs. 3 cr. Selected topics in Anthropology announced prior to registration. *Not offered on a regular basis. Availability to be determined by the department.*

ANTH406 (Liberal Arts) Anthropology and Education 3 hrs. 3 cr. The anthropology of education has a rich and varied history of investigating the link between culture and learning. Anthropologists studying education have sought to examine learning and academic achievement as ongoing social processes and as cultural frames. This course will discuss selected works both classic and contemporary to understand the unique contributions anthropological perspectives make to the study of race, ethnicity, gender, class, and language in education. *Req. ANTH 101 and WRIT 301 or 302 or 303 This course can be offered as a face-to-face course, a hybrid course, or as a fully online asynchronous course.*

ANTH442 (Liberal Arts) Culture and Personality 3 hrs. 3 cr. An examination of relationships between individual psychological functioning and socio-cultural processes, with examples drawn from primitive, peasant, and modern societies. *Req. ANTH 101. 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 (Liberal Arts) Ecological Anthropology 3 hrs. 3 cr. The interrelationships among biological, cultural, and environmental variables in particular ecosystems. Biological variables include plants and animals as well as man. *Req. ANTH 101. Not offered on a regular basis. Availability to be determined by the department.*

ANTH490 (Liberal Arts) Independent Study 0 hrs. 3 cr. Independent, guided research under the supervision of the Anthropology faculty. *Req. 12 credits in Anthropology above the 100 level, or equivalent in related discipline, or permission of instructor. Hours arranged.*

ANTH491 (Liberal Arts) Independent Study 0 hrs. 2 cr. Independent, guided research under the supervision of the Anthropology faculty. *Req. 12 credits in Anthropology above the 100 level, or equivalent in related discipline, or permission of instructor. Hours arranged.*

ANTH492 (Liberal Arts) Independent Study 0 hrs. 1 cr. Independent, guided research under the supervision of the Anthropology faculty. *Req. 12 credits in Anthropology above the 100 level, or equivalent in related discipline, or permission of instructor. Hours arranged.*

ANTH495 Summer Field Experience 0 hrs. 1 cr. Summer field training programs in anthropology conducted by approved institutions. *Req. 9 credits in Anthropology or permission of instructor. 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 0 hrs. 1 cr. Summer field training programs in anthropology conducted by approved institutions. *Req. 9 credits in Anthropology or permission of instructor. 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.*

Astronomy

ASTR101 (Liberal Arts) Introductory Astronomy: The Sun and Planets 3 hrs. 3 cr. 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 (Liberal Arts) Introductory Astronomy: Stars, Galaxies and the Universe 3 hrs. 3 cr. 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.*

ASTR140 (Liberal Arts) Introductory Astronomy: Observations of the Sky 4 hrs. 3 cr. 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.*

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ASTR201 (Liberal Arts) *The Solar System* 5 hrs. 4 cr. A scientific introduction to the Sun, Earth, planets and Solar System. Topics include gravity, magnetism, electromagnetic radiation, orbital motion, comparative planetology, atmospheres, minor bodies, and the formation and evolution of the Solar System. Also discussed are the structure and influence of the Sun on the planets, the possibility of life beyond the Earth, and the discovery of planets around the stars. *Preq. MATH 121 Laboratory, computer and observatory exercises will be used, including at least one nighttime lab. 3 hours lecture, 2 hours laboratory.*

ASTR202 (Liberal Arts) *Stars and the Milky Way* 5 hrs. 4 cr. A scientific introduction to the stars and our home galaxy. Topics include gravity, electromagnetic radiation, thermodynamics, fusion, stellar motions and evolution, the general properties of stars and how they are derived from theory and observation. Also discussed are the structure, size, content and rotation of the Milky Way galaxy. *Preq. MATH 121 Laboratory, computer and observatory exercises will be used, including at least one nighttime lab. 3 hours lecture, 2 hours laboratory.*

ASTR203 (Liberal Arts) *Introduction to Cosmology* 5 hrs. 4 cr. A scientific introduction to galaxies and the structure, origin and fate of the Universe. Topics include gravity, special and general relativity, electromagnetic radiation, galaxies and galaxy clusters, and Hubble's law. Also discussed are the expansion of the Universe, the Big Bang, inflation, and the parameters that determine the fate and content of Universe: dark matter, the density of the fate and content of Universe: dark matter, the density of in the cosmic microwave background radiation. *Preq. MATH 121 Laboratory, computer and observatory exercises will be used, including at least one nighttime lab. 3 hours lecture, 2 hours laboratory.*

ASTR301 (Liberal Arts) *Observational Astronomy* 5 hrs. 4 cr. 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. *Preq. 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. 3 hours lecture, 2 hours laboratory.*

ASTR495 (Liberal Arts) *Independent Study* 6 hrs. 3 cr. Independent Study under supervision of natural sciences faculty. *Preq. Permission of department prior to registration. Minimum of 6 hours per week.*

ASTR496 (Liberal Arts) *Independent Study* 6 hrs. 3 cr. Independent Study under supervision of natural sciences faculty. *Preq. Permission of department prior to registration. Minimum of 6 hours per week.*

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Biology

BIO110 (Liberal Arts) *Environmental Biology* 3 hrs. 3 cr. 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 (Liberal Arts) *Principles of Inheritance and Human Reproduction* 3 hrs. 3 cr. 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 (Liberal Arts) *Biology of the Brain and Behavior* 3 hrs. 3 cr. 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 (Liberal Arts) *Biological Principles I* 6 hrs. 4 cr. 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 (Liberal Arts) *Biological Principles II* 6 hrs. 4 cr. Introduction to the chemistry and biochemistry necessary to support living beings, with emphasis on biological macromolecules and intermediary metabolism; cellular biology; genetics; correlation of cell structure, chemistry and function. Experimental study of cellular biology and chemistry, classical genetics. *Preq. BIO 201. 2 hours lecture, 1 hour recitation/preparatory, 3 hours auto tutorial laboratory.*

BIO231 (Liberal Arts) *Biology of Plants* 6 hrs. 4.5 cr. 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. *Preq. BIO 202. 3 hours lecture, 3 hours laboratory.*

BIO234 (Liberal Arts) *Anatomy and Physiology I* 6 hrs. 4 cr. 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. *Co-req. Coreq. CHEM 105 or 101 2 hours lecture, 1 hour recitation, 3 hours laboratory.*

BIO235 (Liberal Arts) *Anatomy and Physiology II* 6 hrs. 4 cr. Continuation of Biology 234. Topics include: circulatory system, respiratory system, digestive system, reproductive and excretory systems. *Preq. BIO 234. 2 hours lecture, 1 hour recitation, 3 hours laboratory.*

BIO265 (Liberal Arts) *Clinical Microbiology* 4 hrs. 3 cr. Morphology, metabolism, growth, nutrition, and genetics of microorganisms including bacteria, viruses, fungi, algae, and protozoa, as a background for the discussion 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. *Preq. CHEM 105 or CHEM 101 2 hours lecture, 2 hours laboratory.*

BIO281 (Liberal Arts) *Human Structure and Function* 5 hrs. 4 cr. 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. *Preq. BIO 120. Designed for students in Physical Education and Health Education. 3 hours lecture, 2 hours laboratory.*

BIO283 (Liberal Arts) *The Biology of Aging* 3 hrs. 3 cr. 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. *Preq. GERO 101.*

BIO301 (Liberal Arts) *Molecular Biology and Biotechnology* 6 hrs. 4 cr. Molecular Biology and Biotechnology is divided into five main topics: Molecular Genetics; Methods in Biotechnology; Bioinformatics; Protein folding and interactions; Infection and immunity. A treatment of ELSI (Ethical, Legal and Social Implications) pervades the course. *Preq. BIO 202, CHEM 102 2 hrs lecture, 1 hr recitation, 3 hrs lab*

BIO307 (Liberal Arts) *Biostatistics* 4 hrs. 3 cr. The basic application of statistics to the analysis of biological and environmental data; concepts of sampling and population distributions. Laboratory session will consist of introduction to digital computers and application of statistical packages to data analysis. *Preq. Completion of Instrumental Math Requirement. 2 hours lecture, 2 hours laboratory.*

BIO308 (Liberal Arts) *Invertebrate Biology* 6 hrs. 4.5 cr. 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. *Preq. BIO 202. 3 hours lecture, 3 hours laboratory.*

BIO309 (Liberal Arts) *Biology of the Chordates* 6 hrs. 4.5 cr. Survey of the anatomy, systematics, evolution, life histories, behavior and ecology of chordates with emphasis on the vertebrates. Laboratory includes dissection of representative vertebrates. *Preq. BIO 202. 3 hours lecture, 3 hours laboratory. Trips to museums, aquariums, and zoos.*

BIO320 (Liberal Arts) *Cell Biology* 6 hrs. 4.5 cr. 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. *Preq. BIO 202 3 hours lecture, 3 hours laboratory.*

BIO325 (Liberal Arts) *Histology* 6 hrs. 4.5 cr. A study of the microscopic structure of animal tissues, including their cellular composition, origin, function and arrangement into organs. *Preq. BIO 202. Laboratories will emphasize the preparation and study of prepared tissue and organ specimens. 3 hours lecture, 3 hours laboratory.*

BIO334 (Liberal Arts) *Comparative Physiology* 6 hrs. 4.5 cr. 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. *Preq. BIO 202. 3 hours lecture, 3 hours laboratory.*

BIO336 (Liberal Arts) *Pathophysiology* 3 hrs. 3 cr. 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. *Preq. BIO 234, BIO 235 and CHEM 105. This course is designed for students in the B.S. nursing program but is open to interested students who meet the requirements.*

BIO382 (Liberal Arts) *Nutrition* 2 hrs. 2 cr. 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. *Preq. BIO 234, BIO 235, CHEM 105 or 101 Not offered on a regular basis. Availability to be determined by the department.*

BIO403 (Liberal Arts) *Ecology* 6 hrs. 4.5 cr. 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. *Preq. BIO 202. 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 (Liberal Arts) *Biochemistry* 3 hrs. 3 cr. 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. *Preq. BIO 202; CHEM 231 and CHEM 232 or CHEM 230.*

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BIO415 (Liberal Arts) Biochemistry and Molecular Biology 4 hrs. 2 cr. Model building and wet lab experiments to introduce the fundamentals of nucleic acids and proteins: structure, measurements and manipulations; intermediary metabolism. *Preq. BIO 412, or CHEM 412. 4 hours laboratory.*

BIO444 (Liberal Arts) Genetics 6 hrs. 4.5 cr. Genetics will cover molecular genetic principles and concepts in depth, including how genetic information can be manipulated to understand its function. An emphasis will be placed on new genetic tools and model organisms, and the genetic of diseases and traits in the human population. It will mainly consist of lectures and integrated laboratory exercises, which will use transgenic model organisms. *Preq. BIO 201, BIO 202, BIO 301 3 hours lectur, 3 hours laboratory*

BIO452 (Liberal Arts) Developmental Biology 6 hrs. 4.5 cr. 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. *Preq. BIO 301; CHEM 231 3 hours lecture, 3 hours laboratory.*

BIO465 (Liberal Arts) Microbiology 6 hrs. 4.5 cr. 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. *Prereq: BIO 301; CHEM 230 and 235 or 231 and 232 3 hours lecture, 3 hours laboratory.*

BIO466 (Liberal Arts) Immunology 6 hrs. 4.5 cr. 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. *Prereq: BIO 301; CHEM 230 and 235 or 231 and 232. 3 hours lecture, 3 hours laboratory.*

BIO480 (Liberal Arts) Theory and Experimentation in Biotechnology 7 hrs. 5 cr. Theory and methods of contemporary molecular biology and biotechnology. Topics and experiments include methodology in the forefront of genetic engineering, including cell culture, separation processes, recombinant DNA technology, PCR, sequence analysis and protein expression. Ethical, legal and social implications of genomics and biotechnology. This is a Writing Intensive course. *Prereq: BIO 301, BIO 412 or CHEM 412, Writ 301, 302 or 303 This is a Writing Intensive course.*

BIO485 (Liberal Arts) Special Topics in Biology 0 hrs. 3 cr. Intensive study of an advanced biological topic. *Preq. BIO 202, Junior status in Biology. 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 (Liberal Arts) Special Topics in Biology 3 hrs. 2 cr. An advanced seminar designed to give students practice in: (1) reading and analyzing the scientific literature; (2) presenting summaries of original research papers, and (3) writing synopses of journal articles in an advanced biological topic. The subject of the seminar will be announced prior to registration. Field trips may be required. This is a Writing Intensive course. *Preq. BIO 301, Junior status in Biology, WRIT 301, 302, or 303 1 hour lecture, 2 hours recitation This is a Writing Intensive Course*

BIO489 (Liberal Arts) Special Topics in Biology 3 hrs. 2 cr. An advanced a seminar designed to give students practice in: (1) reading and analyzing the scientific literature; (2) presenting summaries of original research papers, and (3) writing synopses of journal articles in an advanced biological topic. The subject of the seminar will be announced prior to registration. Field trips may be required. This is a Writing Intensive course. *Preq. BIO 301, Junior status in Biology, WRIT 301, 302, or 303*

BIO490 (Liberal Arts) Independent Study 6 hrs. 3 cr. Independent research in an area of mutual interest to students and a faculty member. A formal report on topic is required. *Preq. Permission of instructor prior to registration. 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.*

BIO491 (Liberal Arts) Independent Study 6 hrs. 3 cr. Independent research in an area of mutual interest to students and a faculty member. A formal report on topic is required. *Preq. Permission of instructor prior to registration. 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 (Liberal Arts) Independent Study 6 hrs. 3 cr. Independent research in an area of mutual interest to students and a faculty member. A formal report on topic is required. *Preq. Permission of instructor prior to registration. 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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Biotechnology

BTEC203 *Introduction to Biotechnology* 2 hrs. 2 cr. 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. *Preq.* BIO 202, CHEM 102. *Field trips may also be included.*

BTEC350 *Computational Biology and Molecular Design* 4 hrs. 3 cr. 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. *Preq.* BTEC 203, BIO 344, CHEM 233 and MATH 121 (or MATH 184). 2 hours lecture, 2 hours laboratory. *Lecture presentations will be augmented with computer-based laboratory instruction.*

BTEC352 *Bioinformatics* 4 hrs. 3 cr. 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. *Preq.* BTEC 203, BIO 344, CHEM 233 and MATH 121 (or MATH 184). *Students need access to a computer and the internet to complete the course assignments. 2 hours lecture, 2 hours laboratory.*

BTEC480 (Liberal Arts) *Theory and Experimentation in Biotechnology* 7 hrs. 5 cr. Theory and methods of contemporary molecular biology and biotechnology. Topics and experiments include methodology in the forefront of genetic engineering, including cell culture, separation processes, recombinant DNA technology, PCR, sequence analysis and protein expression. Ethical, legal and social implications of genomics and biotechnology. *Prereq:* BIO 301, BIO 412 or CHEM 412, WRIT 301, 302 or 303 *This is a Writing Intensive course.*

BTEC489 *Special Topics in Biotechnology* 3 hrs. 2 cr. An advanced seminar designed to give students practice in: (1) reading and analyzing the scientific literature; (2) presenting summaries of original research papers, and (3) writing synopses of journal articles in an advanced topic of biotechnology. The subject of the seminar will be announced prior to registration. Field trips may be required. *Preq.* BIO 301, *Junior status in Biotechnology, WRIT 301, 302, or 303 This is a Writing Intensive course. This course is cross-listed with BIO 489.*

Business

BUS201 *Computer Applications in Business* 4 hrs. 3 cr. Design and implementation of computerized information systems. Applications include computerized spreadsheets, word processing, graphics, and data base management. *Preq.* 2 hours lecture, 2 hours laboratory.

BUS202 *Introduction to Management Information Systems* 3 hrs. 3 cr. 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. *Preq.*

BUS230 *Introduction to the Aviation Business* 3 hrs. 3 cr. 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. *Preq.* ECON 102 or *Department permission required.*

BUS235 *This is an introductory course to public budgeting, accounting and financial analysis for aviation managers in governments, public authorities, and for managers in the airline industry. It surveys a broad range of key financial and performance issues of government and public authorities from a financial management viewpoint. Key techniques in the aviation industry will be introduced and discussed including public and private budget process, economic and financial forecasting models, financial and cost accounting in private and public settings, cost-benefit analysis, capital budgeting, government accountability and performance measures.* *Preq.* ECON 102.

BUS236 *Air Cargo Management* 3 hrs. 3 cr. This course will present the management practices and problems involved in the air cargo industry. The class will discuss the background of the industry, its diversity of services, facilities and the role competition plays in the industry. The course will *Preq.* ENG 125 and BUS 230 *Field trips will be made to such places as an air cargo terminal and an airfreight forwarder.*

BUS237 *Introduction to Emergency Planning and Management* 3 hrs. 3 cr. An introduction to context, considerations and procedures in managing emergencies and disasters. The course will focus on the importance of developing and disseminating a disaster plan within the organization, as well as delineating and communicating area *Preq.* ECON 101 or 102

BUS283 *Business Law I* 3 hrs. 3 cr. Origin and development of Business Law, its theory and application; Law of contracts, bailments, sales; particular emphasis on New York State Law. *Preq.* ECON 102. (Formerly ECON 283)

BUS284 *Business Law II* 3 hrs. 3 cr. Law of business organizations; agencies and partnerships, corporations, negotiable instruments. *Preq.* BUS 283 or ECON 283. (Formerly ECON 284)

BUS301 *Management Theory and Practice* 3 hrs. 3 cr. 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. *Preq.* ECON 103, ECON 220, ENG 125, MATH 115, BUS 201 ACC 102 Co-Op 101. *Junior Status required (Formerly ECON 381)*

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BUS302 *Introduction to International Business* 3 hrs. 3 cr. 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. *Preq. ECON 101.*

BUS303 *Office Information Systems* 3 hrs. 3 cr. 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. *Preq. BUS 201.*

BUS311 *Human Resource Management* 3 hrs. 3 cr. The objective of this course is to provide each student with an overview of human resource management as a profession and as a contributor to organizational objectives. The course will examine various principles and practices of human resource management and will allow students to develop competencies in areas of recruitment and selection, training and development, performance management, legal and regulatory compliance, labor/management relations, benefits administration, health, safety and security, employee rights and discipline and strategic human resource management. *Preq. BUS 301. (Formerly ECON 281)*

BUS312 *Staff Supervision and Employee Relations* 3 hrs. 3 cr. 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. *Preq. BUS 301. Not offered on a regular basis. Availability to be determined by the department.*

BUS315 *Health Care Management* 3 hrs. 3 cr. 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. *Preq. BUS 301.*

BUS321 *Principles of Finance* 3 hrs. 3 cr. This course provides an introduction to financial aspects of modern firms. It emphasizes valuation of cash flows, introduction to capital structure, procurement of funds, basics of asset management, problems of capitalization and the role of security markets. *Preq. ECON 103, ECON 220, ENG 125, MATH 115, BUS 201, BUS 283, ACC 102 or ACC 103, and Junior status required.*

BUS322 *Investment and Security Analysis* 3 hrs. 3 cr. Introduction to investment and securities; analysis of various types of securities, investment portfolio, management, and security selection; emphasis on new concepts and techniques. *Preq. ENG 125, ECON 102, ECON 103 or ECON 101, ECON 220, ECON 420, MATH 115, ACC 101, ACC 102, BUS 201, BUS 283, BUS 321*

BUS324 *International Finance* 3 hrs. 3 cr. Foundation of international financial management in multinational corporations, environment of international management, the basic functions of various financial markets and instruments, the theory of exchange rate determination, foreign direct investment *Preq. ECON 102, ECON 103 or ECON 101, ECON 220, MATH 115, ACC 101, ACC 102, ENG 125, BUS 201, BUS 283, BUS 321*

BUS325 *Real Estate Finance* 3 hrs. 3 cr. 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. *Preq. ENG 125, ECON 102, ECON 103 or ECON 101, MATH 115, ACC 101, ACC 102, ECON 220, BUS 201, BUS 283, BUS 321*

BUS326 *Computer Applications in Mortgage Finance* 3 hrs. 3 cr. 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. *Preq. BUS 325 and knowledge of word processing and spreadsheet applications. 3 hours lecture.*

BUS327 *Case Studies in Finance* 3 hrs. 3 cr. This course provides a comprehensive overview of financial decisions, tools, and techniques and their impact on the value of the firm using case study method. It includes ethics in finance, financial analysis and forecasting, estimating cost of capital, capital budgeting and resourcing allocation, management of the firm's equity by dividends, share repurchases, initial offering, management of corporate capital structure, analysis of financial tactics and valuation of enterprises for acquisition and buyouts. *Preq. BUS 321*

BUS328 *Fair Housing and Fair Lending Laws* 3 hrs. 3 cr. 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. *Preq. BUS 325 and knowledge of word processing and spreadsheet applications. 3 hours lecture.*

BUS329 *Corporate Finance* 3 hrs. 3 cr. This course focuses on financial decision making in the modern corporation with emphasis on capital investments/budgeting, capital structure, dividends and payout policies, short-term finance financial planning, long term financial planning and international corporate finance. *Preq. ENG 125, ECON 102, ECON 103 or ECON 101, MATH 115, ACC 101, ACC 102, ECON 220, BUS 201, BUS 283, BUS 321*

BUS330 *Aviation Operations* 3 hrs. 3 cr. 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. *Preq. ECON 102 or Department permission required.*

BUS335 *Case Studies in Aviation Financial Management* 3 hrs. 3 cr. This is an introductory course to public budgeting, accounting and financial analysis for aviation managers in governments, public authorities, and for managers in the airline industry. It surveys a broad range of key financial and performance issues of g *Preq. BUS 230 and BUS 321*

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BUS348 Production/Operations Management 3 hrs. 3 cr. Planning, control, and evaluation of production and operations functions in any type of firm; management decision making, scheduling, inventory control, and productivity analysis. *Req. ECON 103, ECON 220, ENG 125, MATH 115, BUS 201, BUS 283, ACC 102, AND Junior status required.*

BUS349 Entrepreneurship Basics 3 hrs. 3 cr. 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, small business sales, finance, personnel, and current management practices. *Req. BUS 301, MKT 341, AND ACC 101*

BUS355 Futures and Options 3 hrs. 3 cr. This course provides a detailed analysis of options, futures, and other financial instruments, and emphasizes the valuation and uses of pricing models, and trading and hedging strategies. Students are first introduced to the basic techniques of futures and forwards, including pricing, hedging, and other applications. Next, these techniques are applied through an introduction of interest rates swaps. The rest of the course focuses on options. Option pricing theory and trading strategies are covered, and the applications to stock indices and other commodities are also introduced. *Req. ENG 125, MATH 115, ACC 101, ACC 102, ECON 102, ECON 103 or ECON 101, ECON 220, ECON 420, BUS 201, BUS 283, BUS 321, BUS 322*

BUS357 Family Business 3 hrs. 3 cr. This course will provide an overview of the special issues of family enterprises, including succession, governance, strategy, family dynamics, culture, philanthropy, and family offices. It will also benefit those from business-owning families as well as their advisors. Will also include case discussions, guest speakers, field or research assignments and presentations on new ideas in family enterprise. *Req. BUS 301, MKT 341, ACC 101 or permission from the department.*

BUS361 Management of Compensation 3 hrs. 3 cr. 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. *Req. BUS 311.*

BUS370 Labor Relations & Collective Bargaining 3 hrs. 3 cr. This course is designed to provide an overview of the institutionalized setting of "labor relations" as it exists today. The course will cover topics such as union/management relationships, evolution of labor/management relationships, legal influences, unions and management, negotiating the labor agreement, economic issues, administrative issues, resolving negotiation disputes, contract administration, labor and employment arbitration, employee discipline, labor relations in the public sector and in multinational corporation and in other countries. *Req. BUS 301*

BUS392 Aviation Internship in the Private Sector 0 hrs. 3 cr. Supervised field experience in a corporate or other private sector setting in the aviation sector under the guidance of a faculty advisor in Business. *Req. BUS 230, BUS 330 and permission of Department required Hours to be arranged*

BUS402 Management Information Systems 3 hrs. 3 cr. 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. *Req. BUS 301, ACC 102, MATH 115, or MATH 121 or MATH 184 and CS 291.*

BUS426 Lending Programs for Affordable Housing 3 hrs. 3 cr. 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. *Req. BUS 325 and BUS 328. 3 hours lecture.*

BUS430 Ethics, Governance & Accountability 3 hrs. 3 cr. This course deals with the relationships of business, government, and society from the perspective of the manager. Timely and relevant topics are treated, including the historical development of the role of business in society, the changing domestic and international environment within which businesses must be managed, the power, legitimacy, and governance of business organizations, values, ethics, and ideology, social issues, corporate social policies, governmental regulation of business, and societal discrimination, and employee health and safety. *Req. BUS 301, BUS 321, BUS 348, MKT 341 and Junior status required*

BUS475 Case Studies in Finance 3 hrs. 3 cr. This course provides a comprehensive overview of financial decisions, tool and techniques and their impact on the value of the firm using case study method. It includes ethics in finance, financial analysis and forecasting, estimating cost of capital, capital budgeting and resource allocation, management of the firm's equity by dividends, share repurchases, initial offering, management of corporate capital structure, analysis of financial tactics and valuation of enterprises for acquisition and buyouts. *Req. ENG 125, ACC 101, ACC 102, ECON 102, ECON 103 or 101, ECON 220, ECON 420, MATH 115, BUS 201, BUS 283,*

BUS481 Strategic Management 3 hrs. 3 cr. 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. *BUS 321, BUS 322, BUS 329*

BUS491 Independent Study in Management 3 hrs. 3 cr. In-depth investigation of management problem of the students choice with faculty approval and guidance. *Req. Junior status and permission of instructor.*

Chemistry

CHEM100 (Liberal Arts) Chemical Calculations 1 hrs. 1 cr. Laboratory on applications of arithmetic, algebra and geometry to chemistry problems. *Not open to students with a grade of C- or above for CHEM 101. Pass/No Credit.*

*Courses which are liberal arts for all students are identified as: (Liberal Arts).

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CHEM101 (Liberal Arts) *Chemical Principles I* 7 hrs. 5 cr. Introduction to chemical principles and concepts. Topics include: stoichiometry, aqueous reactions, atomic structure and periodicity, bonding, states of matter. *Preq. MATH 121* 3 hours lecture, 1 hour problem laboratory, 3 hours laboratory.

CHEM102 (Liberal Arts) *Chemical Principles II* 7 hrs. 5 cr. A continuation of Chemistry 101. Topics include: thermodynamics, kinetics, equilibrium, buffers, titrations, redox reactions, electrochemistry. *Preq. CHEM 101.* 3 hours lecture, 1 hour problem laboratory, 3 hours laboratory.

CHEM105 (Liberal Arts) *Essentials of College Chemistry* 7 hrs. 5 cr. 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. *Preq. MATH 104 or MATH 120 OR placement by Math department in MATH 121* 3 hours lecture, 4 hours laboratory. *Not open to students with credit in CHEM 101 or CHEM 102.*

CHEM120 (Liberal Arts) *Environmental Chemistry* 3 hrs. 3 cr. 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. Not offered on a regular basis. Not open to students with credit in CHEM 101. Availability to be determined by the department.*

CHEM121 (Liberal Arts) *Chemistry in Our Time* 3 hrs. 3 cr. 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 (Liberal Arts) *Essentials of Organic Chemistry* 3 hrs. 3 cr. 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. *Preq. CHEM 102 or CHEM 105.*

CHEM231 (Liberal Arts) *Organic Chemistry I* 3 hrs. 3 cr. Introduction to modern concepts of organic chemistry; bonding, reaction theory, spectroscopy, stereochemistry and nomenclature, relationships between structure and reactivity. *Preq. CHEM 102.*

CHEM232 (Liberal Arts) *Techniques of Organic Chemistry I* 4 hrs. 2 cr. Survey of currently used methods for isolation, purification, and characterization of organic compounds; application of chromatography, infrared spectroscopy, and distillation to experimental problems. *Preq. CHEM 102.*

CHEM233 (Liberal Arts) *Organic Chemistry II* 3 hrs. 3 cr. Continuation of Chemistry 231; functional group reactivities, reaction mechanisms, and biologically significant compounds; emphasis on research methods and synthesis. *Preq. CHEM 231.*

CHEM234 (Liberal Arts) *Techniques of Organic Chemistry II* 4 hrs. 2 cr. Continuation of Chemistry 232; organic qualitative analysis, rational synthesis, and independent investigation. *Preq. CHEM 232.*

CHEM235 (Liberal Arts) *Laboratory in Organic Chemistry* 4 hrs. 2 cr. Synthesis and purification procedures of organic chemicals including drugs, vitamins, dyes, etc. are stressed. Experiments will include product identification. *Preq. CHEM 230* 4 hours laboratory.

CHEM237 (Liberal Arts) *Toxicology* 3 hrs. 3 cr. 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. *Preq. CHEM 230 or CHEM 231.*

CHEM241 (Liberal Arts) *Instrumental Methods of Analysis* 5 hrs. 3 cr. Modern chemical analysis: titrations, applied spectroscopy, electroanalytical methods, analytical separations. Use of spreadsheets in data analysis. *Preq. CHEM 234 or CHEM 235* 1 hour lecture, 4 hours laboratory.

CHEM290 (Liberal Arts) *Independent Study* 2 hrs. 1 cr. Individually guided introduction to research. *Preq. Permission of the department prior to registration. PASS/FAIL only.*

CHEM290-2 (Liberal Arts) *Independent Study* 2 hrs. 1 cr. individually guided introduction to research. *Preq. Permission of the department prior to registration. PASS/FAIL only.*

CHEM291 (Liberal Arts) *Independent Study* 2 hrs. 1 cr. Individually guided introduction to research. *Preq. Permission of the department prior to registration. PASS/FAIL only.*

CHEM292 (Liberal Arts) *Independent Study* 2 hrs. 1 cr. Individually guided introduction to research. *Preq. Permission of the department prior to registration. PASS/FAIL only.*

CHEM310 (Liberal Arts) *Inorganic Chemistry* 3 hrs. 3 cr. 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. *Preq. CHEM 102.*

CHEM321 (Liberal Arts) *Physical Chemistry I* 3 hrs. 3 cr. Classical and molecular investigation of thermodynamics: laws of thermodynamics, thermochemistry, entropy, free energy, chemical equilibria, molecular energies, Boltzmann distribution, and electrochemistry. *Preq. CHEM 102, MATH 122, and PHYS 106 or PHYS 108.*

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CHEM322 (Liberal Arts) *Physical Chemistry II* 3 hrs. 3 cr. Introduction to quantum mechanics, chemical bonding, spectroscopy, chemical kinetics, and statistical mechanics. *Preq.* CHEM 102, MATH 122, and PHYS 106 or PHYS 108 and PHYS 151

CHEM330 (Liberal Arts) *Structure and Mechanism in Biochemistry* 3 hrs. 3 cr. 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. *Preq.* CHEM 233. *Not offered on a regular basis. Availability to be determined by the department.*

CHEM339 (Liberal Arts) *Heterocyclic Chemistry and Drug Chemistry* 3 hrs. 3 cr. 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. *Preq.* CHEM 233. *Not offered on a regular basis. Availability to be determined by the department.*

CHEM341 (Liberal Arts) *Instrumental Analysis I* 6 hrs. 3 cr. Modern chemical analysis: titrations, chromatography, mass spectrometry, electroanalytical and bioanalytical methods. Use of spreadsheets in data analysis. *Preq.* CHEM 233, CHEM 234. 6 hours laboratory.

CHEM342 (Liberal Arts) *Instrumental Analysis II* 6 hrs. 3 cr. Instrumental techniques with an emphasis on spectroscopy: UV-visible, IR and atomic absorption, NMR, fluorescence. Molecular modeling. *Preq.* CHEM 233, CHEM 234. 6 hours laboratory.

CHEM401 (Liberal Arts) *Independent Study* 0 hrs. 1 cr. Individually guided study of an advanced topic in chemistry. *Preq.* *Permission of the instructor. Hours arranged.*

CHEM412 (Liberal Arts) *Biochemistry* 3 hrs. 3 cr. 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. *Preq.* BIO 202, CHEM 231 and CHEM 232 or CHEM 230 and CHEM 235.

CHEM421 (Liberal Arts) *Physical-Inorganic Laboratory* 6 hrs. 3 cr. Integrated approach to modern experimental techniques in inorganic and physical chemistry: electrochemistry, thermodynamics, kinetics, inorganic synthesis, advanced spectroscopy, advanced molecular modeling. *Preq.* CHEM 310, CHEM 341, CHEM 342. *This is a writing intensive course.*

CHEM449 (Liberal Arts) *Advanced Topics in Chemistry* 1 hrs. 1 cr. Advanced topics in chemistry, such as: structure-activity relationships, statistical thermodynamics, molecular reaction dynamics, polymers, atmospheric chemistry, chemical applications of group theory. *Preq.* CHEM 310 and CHEM 321. *Content will be chosen to reflect the needs and interests of the students.*

CHEM450 (Liberal Arts) *Advanced Topics in Chemistry* 3 hrs. 3 cr. 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. *Preq.* CHEM 310, CHEM 321.

CHEM485 (Liberal Arts) *Special Topics in Chemistry* 6 hrs. 3 cr. Intensive study in advanced chemical topics and experimental methods. *Preq.* CHEM 233, *Junior status.* 6 hours laboratory. *Not offered on a regular basis. Availability to be determined by the department.*

CHEM490 (Liberal Arts) *Independent Study* 6 hrs. 3 cr. Individually guided investigation of an advanced topic in chemistry. A formal report on topic is required. *Preq.* *Permission of instructor prior to registration. 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 (Liberal Arts) *Independent Study* 6 hrs. 3 cr. Individually guided investigation of an advanced topic in chemistry. A formal report on topic is required. *Preq.* *Permission of instructor prior to registration. 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 (Liberal Arts) *Independent Study* 6 hrs. 3 cr. Individually guided investigation of an advanced topic in chemistry. A formal report on topic is required. *Preq.* *Permission of instructor prior to registration. 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 (Liberal Arts) *Independent Study* 6 hrs. 3 cr. Individually guided investigation of an advanced topic in chemistry. A formal report on topic is required. *Preq.* *Permission of instructor prior to registration. 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.*

Chinese

CHIN101 (Liberal Arts) *Elementary Chinese* 14 hrs. 4 cr. Basic principles of a beginner's course; designed to give the foundations of the language.

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CHIN102 (Liberal Arts) *Elementary Chinese II* 4 hrs. 4 cr. Continuation of the beginner's course; more complex grammatical structures, integrated readings and further practice in conversation. *Preq.* CHIN 102.

CHIN105 (Liberal Arts) *Intermediate Chinese I* 3 hrs. 3 cr. This course is an intermediate-level language course for students of Mandarin Chinese. Within the context of Chinese culture and daily life this course will further develop integrated Chinese language skills: listening, speaking, reading and writing; there will be an emphasis the acquisition of vocabulary and grammar, and the encouragement to improve the ability to communicate. *Preq.* CHIN 102 or placement by department

Cultural Diversity

CLDV101 (Liberal Arts) *Understanding Cultural Diversity* 4 hrs. 3 cr. 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. *Preq.* ENG 125 2 hours lecture, 2 hours laboratory.

CLDV201 (Liberal Arts) *Cultures and Societies of the World: Africa, Latin America and the Caribbean* 3 hrs. 3 cr. 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. *Preq.* CLDV 101, ENG 125.

CLDV202 (Liberal Arts) *Cultures and Societies of the World: The Far East and South East Asia* 3 hrs. 3 cr. 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. *Preq.* CLDV 101, ENG 125.

CLDV203 (Liberal Arts) *Cultures and Societies of the World: Asia and the Middle East* 3 hrs. 3 cr. 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. *Preq.* CLDV 101, ENG 125.

CLDV210 (Liberal Arts) *Western Civilization* 3 hrs. 3 cr. 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. *Preq.* ENG 125, CLDV 101. *This is a Writing Intensive course.*

Cooperative Education

COOP101 *Co-op Orientation* 2 hrs. 1 cr. 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. *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.

COOP111 *Work Experience and Seminar I* 255 hrs. 3 cr. 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. *Preq.* COOP 101, SPCH 101, junior status, permission of Cooperative Education Committee. 225 hours work experience, 2 hours seminar. Prerequisite may be waived by the Assistant Dean for Career Services.

COOP211 *Work Experience and Seminar II* 240 hrs. 3 cr. 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. *Preq.* COOP 111 and permission of Cooperative Education Committee. 225 hours work experience, 1 hour seminar.

COOP311 *Work Experience and Seminar III* 226 hrs. 3 cr. 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. *Preq.* COOP 111 and permission of Cooperative Education Committee. 225 hours work experience, 1 hour seminar.

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COOP411 *Work Experience and Seminar IV* 226 hrs. 3 cr. 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. *Req. COOP 111 and permission of Cooperative Education Committee. 225 hours work experience, 1 hour seminar.*

Creole

CRE105 (Liberal Arts) *Intermediate Creole I* 3 hrs. 3 cr. 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 (Liberal Arts) *Intermediate Creole II* 3 hrs. 3 cr. Development of reading and writing proficiency at the intermediate level using revision and editing techniques augmented by selected literary texts. *Req. CRE 105 or permission of instructor.*

CRE205 (Liberal Arts) *Creole Writing and Composition* 3 hrs. 3 cr. 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. *Req. CRE 106.*

CRE208 (Liberal Arts) *Masterpieces in Haitian Creole Literature* 3 hrs. 3 cr. The study and analysis of contemporary Creole literary works (novels, poetry & theater). *Req. CRE 106.*

CRE241 (Liberal Arts) *Translation I* 3 hrs. 3 cr. 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. *Req. CRE 106 and ENG 125.*

CRE242 (Liberal Arts) *Translation II* 3 hrs. 3 cr. This course follows Creole 241. It focuses on a wide range of texts, from journal articles to poetry. *Req. CRE 241 or Department permission required.*

CRE243 (Liberal Arts) *Haitian Poetry* 3 hrs. 3 cr. This course offers a general overview of the history of Creole poetry in Haiti from 1804 to the present. Particular emphasis will be put on the originality of the stylistic techniques developed by the writers. *Req. CRE 106 or Department permission required.*

CRE244 (Liberal Arts) *Haitian Theater* 3 hrs. 3 cr. This course offers a general overview of the history of Creole theater in Haiti from 1804 to the present. *Req. CRE 106 or Department permission required.*

CRE245 (Liberal Arts) *Haitian Novel, Folklore, and the Oral Tradition* 3 hrs. 3 cr. The importance of storytelling in Creole literature has been seriously debated since the 1980s. This course examines the relationship between tale and novel, through selected writings and recordings. *Req. CRE 106 or Department permission required.*

CRE362 (Liberal Arts) *Themes* 3 hrs. 3 cr. Analysis of selected works through the study of specific topics or movements. *Req. CRE 106 or Department permission required.*

CRE363 (Liberal Arts) *Themes* 3 hrs. 3 cr. Analysis of selected works through the study of specific topics or movements. *Req. CRE 106 or Department permission required.*

CRE400 (Liberal Arts) *Seminar on Creole* 3 hrs. 3 cr. A research seminar on a topic in Creole. *Req. CRE 300 or Department permission required. The topic will vary in each offering. May be repeated for credit with the consent of advisor.*

Computer Science

CS172 (Liberal Arts) *Computer Science I* 4 hrs. 4 cr. 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. *Co-req. Coreq. MATH 115 or MATH 121 or MATH 184. Students are expected to complete several laboratory assignments.*

CS261 (Liberal Arts) *Data Communications I* 4 hrs. 4 cr. Introduction to principles of data communication: modems, communications, software, controllers, industry protocols, and networks. *Req. MATH 141 or MATH 225, and CS 172.*

CS291 (Liberal Arts) *Computer Science II* 4 hrs. 4 cr. 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. *Req. CS 172.*

CS292 (Liberal Arts) *Introduction to Data Base Management* 4 hrs. 4 cr. 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. *Req. MATH 141 or MATH 225, and CS 172.*

CS300 (Liberal Arts) *Guided Study of Topics in Computer Science* 1 hrs. 1 cr. Independent study of selected topics in computer science under supervision of departmental faculty. *Req. Departmental permission.*

CS301 (Liberal Arts) *Guided Study of Topics in Computer Science* 1 hrs. 1 cr. Independent study of selected topics in computer science under supervision of departmental faculty. *Req. Departmental permission.*

CS334 (Liberal Arts) *Computer Graphics* 3 hrs. 3 cr. 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. *Req. MATH 225 and CS 341.*

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CS341 (Liberal Arts) Algorithms and Data Structures 4 hrs. 4 cr. Analysis of algorithms, fast sorting, searching, backtracking, linked structures, recursion, priority queues, trees, graph algorithms. *Req. MATH 141 or MATH 225, and CS 291.*

CS357 (Liberal Arts) Principles of Programming Languages 4 hrs. 4 cr. Design, implementation, syntax and semantics of imperative, object oriented, functional and logic programming languages. *Req. CS 341, MATH 225. 4 hours lecture.*

CS361 (Liberal Arts) Data Communications II 4 hrs. 4 cr. 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. *Req. CS 261.*

CS371 (Liberal Arts) Business Programming 4 hrs. 4 cr. 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. *Req. MATH 291.*

CS377 (Liberal Arts) Artificial Intelligence 3 hrs. 3 cr. 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. *Req. MATH 225 and CS 341.*

CS381 (Liberal Arts) Software Development 4 hrs. 4 cr. 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. *Req. MATH 141 and CS 291.*

CS382 (Liberal Arts) Software Engineering 3 hrs. 3 cr. 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. *Req. CS 381.*

CS391 (Liberal Arts) Object-Oriented Programming 4 hrs. 4 cr. 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). *Req. CS 291.*

CS392 (Liberal Arts) Database Systems 4 hrs. 4 cr. Entity-Relationship model, relational algebra, relational calculus, SQL, integrity constraints, functional dependencies, normalization of data, storage and file structure, transactions, concurrency control. *Req. CS 341 and CS 225, or CS 341 and CS 292. 4 hours lecture.*

CS397 (Liberal Arts) Machine Organization 4 hrs. 4 cr. Computer structure, number systems, registers and addressing systems; data manipulation; related topics; assembly language programming. *Req. CS 291, the equivalent or permission of instructor. Students are expected to complete several laboratory assignments.*

CS400 (Liberal Arts) Independent Study of Selected Topics in Computer Science 2 hrs. 2 cr. Independent study of selected advanced topics in computer science under supervision of departmental faculty. *Req. Departmental permission*

CS401 (Liberal Arts) Independent Study of Selected Topics in Computer Science 2 hrs. 2 cr. Independent study of selected advanced topics in computer science under supervision of departmental faculty. *Req. Departmental permission*

CS451 (Liberal Arts) Operating Systems 4 hrs. 4 cr. 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. *Req. CS 397.*

CS452 (Liberal Arts) Unix Operating System 3 hrs. 3 cr. 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. *Req. CS 341 and CS 451. 3 hours lecture.*

CS457 (Liberal Arts) Introduction to Automata and Computability 4 hrs. 4 cr. Propositional logic, graphs and digraphs, alphabets, languages, deterministic and nondeterministic finite automata, regular expressions, languages acceptors, grammars, Turing machines and computability. *Req. CS 291*

CS461 (Liberal Arts) Network Computing 4 hrs. 4 cr. Computing in a network environment. Intranets, the server, TCP/IP, the Internet and World Wide Web (WWW), web publishing, Hypertext Markup Language (HTML), Java. *Req. CS 291.*

CS465 (Liberal Arts) Cryptography and Network Security 3 hrs. 3 cr. Ciphers, public and private keys, encryption and decryption, conventional encryption algorithms, modular arithmetic, Fermat and Euler theorems, RSA Algorithm, network security. *Req. CS 291 and MATH 225. 3 hours lecture.*

CS471 (Liberal Arts) Windows Programming 4 hrs. 4 cr. 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). *Req. CS 391.*

CS485 (Liberal Arts) Computer Architecture 4 hrs. 4 cr. Logical devices and digital circuits, data representation, register transfer, central processor organization, microprogram control and organization. *Req. CS 397. 4 hours lecture.*

CS491 (Liberal Arts) Advanced Topics in Computing/Information Systems Management 2 hrs. 2 cr. 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. *Req. CS 291; depending on the topic offered, additional prerequisites may be determined by the department. Students are expected to complete several laboratory assignments.*

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CS492 (Liberal Arts) *Advanced Topics in Computing/Information Systems Management* 2 hrs. 2 cr. 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. *Preq. CS 291; depending on the topic offered, additional prerequisites may be determined by the department. Students are expected to complete several laboratory assignments.*

CS493 (Liberal Arts) *Advanced Topics in Computing/Information Systems Management* 2 hrs. 2 cr. 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. *Preq. CS 291; depending on the topic offered, additional prerequisites may be determined by the department. Students are expected to complete several laboratory assignments.*

CS494 (Liberal Arts) *Advanced Topics in Computing/Information Systems Management* 2 hrs. 2 cr. 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. *Preq. CS 291; depending on the topic offered, additional prerequisites may be determined by the department. Students are expected to complete several laboratory assignments.*

CS495 (Liberal Arts) *Advanced Topics in Computing/Information Systems Management* 2 hrs. 2 cr. 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. *Preq. CS 291; depending on the topic offered, additional prerequisites may be determined by the department. Students are expected to complete several laboratory assignments.*

CS496 (Liberal Arts) *Advanced Topics in Computing/Information Systems Management* 2 hrs. 2 cr. 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. *Preq. CS 291; depending on the topic offered, additional prerequisites may be determined by the department. Students are expected to complete several laboratory assignments.*

CS497 (Liberal Arts) *Advanced Topics in Computing/Information Systems Management* 2 hrs. 2 cr. 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. *Preq. CS 291; depending on the topic offered, additional prerequisites may be determined by the department. Students are expected to complete several laboratory assignments.*

CS498 (Liberal Arts) *Advanced Topics in Computing/Information Systems Management* 2 hrs. 2 cr. 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. *Preq. CS 291; depending on the topic offered, additional prerequisites may be determined by the department. Students are expected to complete several laboratory assignments.*

CS499 (Liberal Arts) *Advanced Topics in Computing/Information Systems Management* 2 hrs. 2 cr. 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. *Preq. CS 291; depending on the topic offered, additional prerequisites may be determined by the department. Students are expected to complete several laboratory assignments.*

Communications Technology

CT101 *Introduction to Video* 4 hrs. 3 cr. 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. *Preq. ENG 125. 2 hour lecture, 2 hours laboratory.*

CT201 *Foundations in Communications Technology* 3 hrs. 3 cr. 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. *Preq. ENG 125.*

CT205 *Principles of the Moving Image* 3 hrs. 3 cr. 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. *Preq. CT 201.*

CT240 *Studio Television Production* 4 hrs. 3 cr. Techniques in contemporary digital television production including multi-camera techniques, lighting, sound and post-production for studio elements as well as outside segment production. *Preq. CT 101. 2 hours lecture, 2 hours laboratory.*

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CT244 Multimedia Sound Production 4 hrs. 3 cr. 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. *Preq. CT 101. 2 hours lecture, 2 hours laboratory.*

CT345 Introduction to Motion Graphics 4 hrs. 3 cr. 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. *Preq. CT 101. FA 284 2 hours lecture, 2 hours laboratory.*

CT355 Video Documentary Production 4 hrs. 3 cr. Fundamentals of video documentary production: pre-production planning, budgeting, scripting, filming, editing, and directing. Students in small groups learn the theory and techniques of using portable digital video cameras, lighting and sound equipment in field work and complete digital editing with titles, voiceover, music, and special effects in a studio setting. A brief history and role of the documentary is also included. *Preq. CT 345. 2 hours lecture; 2 hours laboratory.*

CT360 Principles of Web Publishing 4 hrs. 3 cr. 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. *Preq. FA 284. 2 hours lecture, 2 hours laboratory.*

CT370 Web Programming 3 hrs. 3 cr. 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. *Preq. CS 172. CT 201. The student is expected to create, design and produce well-designed, dynamic and interactive web pages using applications programming technology.*

CT380 Webcasting 4 hrs. 3 cr. 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. *Preq. CT 101, CT 102 2 hours lecture, 2 hours laboratory*

CT381 Advanced Web Design 4 hrs. 3 cr. 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. *Preq. CT 360. 2 hours lecture, 2 hours laboratory. Students are expected to plan, design, and construct a well thought-out web site.*

CT385 Multimedia Interface Design 4 hrs. 3 cr. 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. *Preq. CT 345 or CT 370 or CT 380, as required by student's concentration. 2 hours lecture, 2 hours laboratory. Students will build an interface using current design and authoring applications.*

CT390 Online Communities 3 hrs. 3 cr. Design, evaluation, and analysis of online communities, and their social, legal and educational dimensions. *Preq. CT 201.*

CT391 Telecommunications in Transition 3 hrs. 3 cr. 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. *Preq. CT 201.*

CT399 Portfolio Design 4 hrs. 1 cr. Students learn to develop a portfolio relevant to their chosen concentration in the Communications Technology Major. Professional statement writing and the fundamentals of analog, digital and web-based portfolios will be covered. Critique of fellow students' portfolio elements is a requirement of the course. *Preq. Completion of 30 credits in Major and permission of the department. Seven meetings per semester plus two hours orientation.*

CT401 Final Project/Senior Seminar 3 hrs. 3 cr. 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. *Preq. CT 399, WRIT 303, and permission of the department. This is a Writing Intensive course.*

CT415 Special Projects-Production 4 hrs. 3 cr. A selected topic in multimedia production. This topic varies with each offering *Preq. Permission of the department prior to registration. 2 hrs. lecture, 2 hrs lab.*

CT416 Special Projects-Production 4 hrs. 3 cr. A selected topic in multimedia production. This topic varies with each offering *Preq. Permission of the department prior to registration. 2 hrs. lecture, 2 hrs lab.*

CT417 Special Projects-Production 4 hrs. 3 cr. A selected topic in multimedia production. This topic varies with each offering *Preq. Permission of the department prior to registration. 2 hrs. lecture, 2 hrs lab.*

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CT418 Special Projects-Production 4 hrs. 3 cr. A selected topic in multimedia production. This topic varies with each offering. *Req. Permission of the department prior to registration. 2 hrs. lecture, 2 hrs lab.*

CT419 Special Projects-Production 4 hrs. 3 cr. A selected topic in multimedia production. This topic varies with each offering. *Req. Permission of the department prior to registration. 2 hrs. lecture, 2 hrs lab.*

CT490 Internship 20 hrs. 3 cr. 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. *Req. CT 399 and permission of the department. 20 hours/week or 300 hours/semester.*

CT425 Special Topics-Seminar 3 hrs. 3 cr. A selected topic in communications technology. The topic varies with each offering. *Req. CT 201.*

CT426 Special Topics-Seminar 3 hrs. 3 cr. A selected topic in communications technology. The topic varies with each offering. *Req. CT 201.*

CT427 Special Topics-Seminar 3 hrs. 3 cr. A selected topic in communications technology. The topic varies with each offering. *Req. CT 201.*

CT428 Special Topics-Seminar 3 hrs. 3 cr. A selected topic in communications technology. The topic varies with each offering. *Req. CT 201.*

CT429 Special Topics-Seminar 3 hrs. 3 cr. A selected topic in communications technology. The topic varies with each offering. *Req. CT 201.*

CT491 Internship 20 hrs. 3 cr. 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. *Req. CT 399 and permission of the department. 20 hours/week or 300 hours/semester.*

Economics

ECON102 (Liberal Arts) Introduction to Microeconomics 3 hrs. 3 cr. 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.

ECON103 (Liberal Arts) Introduction to Macroeconomics 3 hrs. 3 cr. 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. *Req. ECON 102*

ECON200 (Liberal Arts) Intermediate Microeconomics 3 hrs. 3 cr. 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. *Req. ECON 102 and ECON 103.*

ECON210 (Liberal Arts) Intermediate Macroeconomics 3 hrs. 3 cr. 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. *Req. ECON 102 and ECON 103.*

ECON220 (Liberal Arts) Introduction to Economic Statistics 4 hrs. 3 cr. Presentation and interpretation of statistical data, statistical inference, correlation and regression. *Req. ECON 103 and MATH 115 or MATH 121 or MATH 184. 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.*

ECON310 (Liberal Arts) Public Finance 3 hrs. 3 cr. Principles of government finance, public expenditures, revenues, and indebtedness; special attention to selected tax and budgetary problems. *Req. ECON 102 and ECON 103. Not offered on a regular basis. Availability to be determined by the department.*

ECON311 (Liberal Arts) Money and Banking 3 hrs. 3 cr. Principles and history of money and banking; major reference to the experience and problems of the United States. *Req. ECON 103.*

ECON331 (Liberal Arts) Economics of Underdeveloped Areas 3 hrs. 3 cr. Analysis of the causes of economic underdevelopment and the alternative strategies of economic development. *Req. ECON 103. Not offered on a regular basis. Availability to be determined by the department.*

ECON333 (Liberal Arts) Urban Economics 3 hrs. 3 cr. 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. *Req. ECON 103.*

ECON340 (Liberal Arts) International Economics 3 hrs. 3 cr. Economic relations among nations and geographic regions, including balance of payment accounts, foreign exchange markets, adjustment mechanisms, tariffs and the foundations of trade policies. *Req. ECON 102 and ECON 103. Not offered on a regular basis. Availability to be determined by the department.*

ECON350 (Liberal Arts) Industrial Organization 3 hrs. 3 cr. 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. *Req. ECON 102. Not offered on a regular basis. Availability to be determined by the department.*

ECON360 (Liberal Arts) Labor Economics 3 hrs. 3 cr. Supply and demand for labor, wage patterns and theories, problem of unemployment and its solutions, and effect of trade unions on wage determinations. *Req. ECON 102.*

ECON361 (Liberal Arts) Economics of Trade Unions and Collective Bargaining in the United States 3 hrs. 3 cr. 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. *Req. ECON 102.*

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ECON390 (Liberal Arts) *Independent Research* 0 hrs. 3 cr. Investigation of a problem, determined by the student in consultation with a member of the Economics staff. *Preq.* ECON 220. *Hours arranged.*

ECON420 (Liberal Arts) *Advanced Economic Statistics* 3 hrs. 3 cr. 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. *Preq.* ECON 220 or equivalent.

ECON421 (Liberal Arts) *Econometrics* 3 hrs. 3 cr. The principles and applications of econometric techniques to economics and business. *Preq.* ECON 420 or MATH 113 or MATH 211. *Not offered on a regular basis. Availability to be determined by the department.*

Education

EDUC268 *Bilingual and ELL Education* 2 hrs. 2 cr. This course is an introduction to the philosophy, fundamental principles, and current approaches of teaching linguistically diverse English Language Learners (ELLs) in the urban school in both bilingual and mainstream settings. Fieldwork required. *Preq.* ENG 125

EDUC269 *Theories of Bilingualism and Bilingual Education in the Urban School* 3 hrs. 3 cr. This course is an introduction to the philosophy, fundamental principles, and current approaches of teaching bilingual students in the urban school. *Preq.* 6cr. *Spanish at the 200 level, formal admission to the teacher education program for teacher education candidates, departmental permission for non-degree students. 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.*

EDUC271 (Liberal Arts) *Adolescent Development in Middle and High Schools* 4 hrs. 3 cr. In this course, students will study the processes and issues of the growth and development of adolescents, examining possibilities and challenges of cognitive, emotional, social, and physical development in a diverse urban context. Particular attention will be paid to students with special needs in these areas and students who are English Language Learners. A wide range of contextual issues will be explored as students develop an understanding of the complexities and diversities of adolescent development in an urban context. The impact that adolescent development has on learning and behavior will be explored so that the students are prepared to make appropriate instructional decisions. The relation of technology to development issues will be emphasized throughout the course. *Preq.* *Department approval based upon evidence of background in child development. 3 hours lecture, 1 hour fieldwork. Assignments will offer the students opportunities to apply the theories of adolescent development within an urban context so that learning is maximized for all students. The course will require 14 hours of fieldwork with adolescents in an urban environment.*

EDUC280 (Liberal Arts) *Child and Adolescent Development for Teachers* 3 hrs. 3 cr. This course will explore human development from childhood through adolescence within the context of history, culture, urbanization and sociopolitical conditions. Special emphasis is on the relationship between development and teaching/learning. Topics covered will include theories of physical, cognitive, and social/emotional development addressing issues such as standardized testing and assessment, special needs designations, play, and health-related factors. This course will carry a liberal arts and science designation. Psychology majors must take Psychology 215. *Preq.* ENG 125. *Field Work required: 14 hours*

EDUC281 *Fieldwork in Educational Environments* 2 hrs. 1 cr. 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. *Preq.* EDUC 280 or PSY 215. *1 hour recitation, 1 hour field work.*

EDUC283 (Liberal Arts) *Effective Teaching and Learning* 3 hrs. 3 cr. An introduction to principles of effective teaching and learning. This course provides an overview of behavioral, social cognitive, cognitive, and constructivists 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. *Preq.* EDUC 281. *Field work is required.*

EDUC284 *Field Experiences in Teaching and Learning* 1 hrs. 1 cr. Introduction to fieldwork in Education from grades K through 12. This course includes 28 hours of supervised field experiences in Educational environments that are in partnership with York College, Department of Teacher Education. The course will include observational experiences and encourage students to become facilitators of learning and development by applying knowledge and skills developed in the EDUC 283 course. *Preq.* EDUC 283

EDUC301 *Education of the Mildly Handicapped* 3 hrs. 3 cr. 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. *Preq.* EDUC 201. *Field work required.*

EDUC302 *Education of the Physically Handicapped* 3 hrs. 3 cr. Education of children with physical and multiple handicaps and chronic medical problems. Methods and Materials, instructional designs, curriculum modifications and behavioral techniques. *Preq.* EDUC 301.

EDUC303 *Nature and Educational Needs of the Mentally Retarded* 3 hrs. 3 cr. Definition, incidence, etiology of mental retardation; characteristics and educational needs of persons who are educable or trainable; educational counseling and training procedures. *Preq.* EDUC 301. *Field trips are required.*

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EDUC306 *Education of the Emotionally Handicapped* 3 hrs. 3 cr. Screening and diagnostic procedures for identifying children with emotional and behavioral disorders; methods, materials, and educational therapeutic techniques for classroom instruction.. *Preq. EDUC 201 or EDUC 310. Field work required.*

EDUC312 *Literacy Instruction and Children's Literature in the Early and Primary Years* 4 hrs. 3 cr. 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. *Preq. WRIT 301 or 302 or 303, formal admission to the teacher education program for teacher education candidates, departmental permission for non-degree students. 2 hours lecture, 2 hours laboratory.*

EDUC314 *Content Area Literacy Instruction and Children's Literature for Beginning and Independent Readers (Grades 2-6)* 3 hrs. 3 cr. 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. *Preq. EDUC 312, and formal admission to the teacher education program for teacher education candidates or departmental permission for non-degree students.*

EDUC317 *Curriculum and Methods in Elementary Education: Science* 3 hrs. 2 cr. 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. *Preq. Formal admission to the teacher education program for teacher education candidates, departmental permission for non-degree students. 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* 3 hrs. 2 cr. 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. *Preq. Formal admission to the teacher education program for teacher education candidates, departmental permission for non-degree students. 2 hours lecture, 1 hour recitation. Ten hours of classroom observation under the guidance of a York College faculty member.*

EDUC320 *Literature and Story-Telling for Children and Adolescents* 3 hrs. 3 cr. This course will familiarize future teachers with the categories and characteristics of children's books (traditional literature, contemporary realistic fiction, historical fiction, mystery, and science fiction, etc.), the methods and materials for using *Preq. ENG 125 or Department permission required.*

EDUC323 *Curriculum and Methods in Elementary Education: Mathematics* 3 hrs. 2 cr. 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. *Preq. Formal admission to the teacher education program for teacher education candidates, departmental permission for non-degree students. 1 hour lecture, 2 hours laboratory. Students will make site visits to area schools.*

EDUC329 *Curriculum and Methods in Teaching Health Education at the Elementary Level* 3 hrs. 3 cr. 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. *Preq. EDUC 283 and HE 320. 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 hrs. 3 cr. 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. *Preq. EDUC 329. Thirty hours field observation in the elementary school supervised by York College faculty members.*

EDUC333 *Constructing Social Studies Relationships Through the Expressive Arts* 3 hrs. 2 cr. 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. *Preq. Formal admission to the teacher education program for teacher education candidates, departmental permission for non-degree students. 1 recitation hour, 2 laboratory hours.*

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EDUC340 Literacy Instruction Inside Middle and Secondary Schools 4 hrs. 3 cr. 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. *Preq. Formal admission to the teacher education program for teacher education candidates, departmental permission for non-degree students. 2 hours lecture, 2 hours laboratory.*

EDUC341 Curriculum and Methods in Physical Education, K-12 4 hrs. 4 cr. 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. *Preq. Formal admission to Teacher Education Program Thirty hours field observation in the elementary school supervised by York College faculty members.*

EDUC345 Teaching English as a Second Language Through the Content Areas 3 hrs. 2 cr. 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. *Preq. EDUC 269 and formal admission to the teacher education program for teacher education candidates, departmental permission for non-degree students. The completion of 15 hours of supervised fieldwork is required. Sample lessons taught by each student will be videotaped and analyzed.*

EDUC351 Teaching Reading and Spanish Language Arts in Bilingual Contexts 3 hrs. 3 cr. 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. *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. The completion of 15 hours of supervised fieldwork is required. Sample lessons taught by each student will be videotaped and analyzed.*

EDUC352 Instructional Strategies in Middle and High Schools 4 hrs. 3 cr. Building upon their deep and broad academic content knowledge, candidates will learn to plan and implement content-based units and lessons appropriate for students in urban middle and high schools. Candidates will study middle and high school curriculum as defined by national and state standards, learning ways to translate that appropriately for diverse urban classrooms. They will learn research-based best practices for instruction in urban middle and high schools, including the incorporation of instructional technologies. They will explore subject-specific and interdisciplinary approaches to instruction, as well as reading and writing in the content areas. In their planning, candidates will incorporate their understanding of adolescent development and urban diversity and plan for inclusion of students with special needs and English Language Learners. *Preq. EDUC 271 or department permission. 3 hours lecture, 1 hour fieldwork. The course will require 14 hours fieldwork in an urban middle or high school, including observation, instructional assistance, and teaching a lesson.*

EDUC369 Early Language & Literacy (EO & ELL) 3 hrs. 3 cr. This is part 1 of required literacy education courses for teacher candidates. In this course current perspectives and research on language development will be examined as well as how these perspectives are applied to creating language arts curriculum for emergent and beginning readers, both English Only (EO) students and English Language Learners (ELLs). Also to be explored are methods for teaching a balanced literacy program to all early and emergent readers, including linguistically diverse student populations and students with diverse learning needs. Focus in this course include observational, diagnostic and evaluative assessment methods for analyzing a student's strengths and areas of needed growth; methods and principles for developing proficient readers and writers; lesson planning for literacy instruction; meeting the literacy needs of English Only and English Language Learners in grades 1-2 and selecting appropriate literature and instructional materials including use of technological tools and resources *Preq. Eng. 125 & Writing 300 level course; Requirements for Formal Admission to the Department or, departmental permission for non-degree students This is a writing intensive course. Fieldwork required.*

EDUC370 Content Literacy 2-6 (EO & ELL) 3 hrs. 3 cr. This is part 2 of required literacy education courses for teacher candidates. It focuses on content area literacy instruction for Mainstream English Only (EO) and English Language Learners (ELLs), in grades 2-6. In this course, students will focus on standards-based literacy instruction and children's literature used in designing literacy programs for students in grades 2-6 classrooms in academic content areas - science, mathematics, social studies and the arts for both English Only (EO) students and English Language Learners (ELLs). A major focus for this course will be methods for teaching content area literacy skills in grades 2-6 and the use of instructional technology and multicultural resource materials for both English Only students (EOs) and English Language Learners (ELLs). A special focus in this course will include planning for and teaching English as a Second Language through the content areas for English Language Learners. *Preq. EDUC 369, and formal admission to Teacher Education Program or, departmental permission for non-degree students. 28 Field Hours required*

EDUC371 Curriculum and Methods in the Secondary School: Spanish 3 hrs. 3 cr. 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. *Preq. Formal admission to the teacher education program for teacher education candidates, departmental permission for non-degree students.*

EDUC373 Curriculum and Methods in the Secondary School: Mathematics 3 hrs. 3 cr. 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. *Preq. Formal admission to the teacher education program for teacher education candidates, departmental permission for non-degree students.*

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EDUC375 Curriculum and Methods in the Secondary Schools: Biology 3 hrs. 3 cr. 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. *Preq. Formal admission to the teacher education program for teacher education candidates, departmental permission for non-degree students.*

EDUC377 Curriculum and Methods in the Secondary Schools: Chemistry 3 hrs. 3 cr. 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. *Preq. Formal admission to the teacher education program for teacher education candidates, departmental permission for non-degree students.*

EDUC381 Curriculum and Methods in the Secondary Schools: Earth Science 3 hrs. 3 cr. 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. *Preq. Formal admission to the teacher education program for teacher education candidates, departmental permission for non-degree students.*

EDUC418 Supervised Student Teaching, Health Education, Grades K-6 130 hrs. 4 cr. 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. *Preq. Admission to Student Teaching.*

EDUC419 Supervised Student Teaching, Health Education, Grades 7-12 130 hrs. 4 cr. 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. *Preq. Admission to Student Teaching.*

EDUC431 Supervised Student Teaching, Grades 1-3 16 hrs. 3 cr. 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. *Preq. Admission to Student Teaching. 16 hours/week fieldwork.*

EDUC432 Supervised Student Teaching, Grades 4-6 16 hrs. 3 cr. 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. *Preq. Admission to Student Teaching. 16 hours/week fieldwork.*

EDUC440 Supervised Student Teaching, Mathematics, Grades 7-9 120 hrs. 4 cr. 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. *Preq. Admission to Student Teaching. 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 10-12 120 hrs. 4 cr. 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. *Preq. Admission to Student Teaching. 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 7-9 120 hrs. 4 cr. 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. *Preq. Admission to Student Teaching. Mandatory participation in a weekly student teaching seminar enables candidates to examine educational issues that directly impact on their daily classroom experiences.*

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** Courses identified **NOT** Liberal Arts in addition to courses identified with an **X** **CANNOT** be used as Liberal Arts by **ACCOUNTING MAJORS**.

EDUC443 *Supervised Student Teaching, Biology, Grades 10-12 120 hrs. 4 cr.* 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. *Preq. Admission to Student Teaching. 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 7-9 120 hrs. 4 cr.* 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. *Preq. Admission to Student Teaching. 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 10-12 120 hrs. 4 cr.* 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. *Preq. Admission to Student Teaching. 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 7-9 120 hrs. 4 cr.* 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. *Preq. Admission to Student Teaching. 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 10-12 120 hrs. 4 cr.* 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. *Preq. Admission to Student Teaching. 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-6 130 hrs. 4 cr.* 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. *Preq. Admission to Student Teaching. 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 7-12 130 hrs. 4 cr.* 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. *Preq. Admission to Student Teaching. 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 120 hrs. 4 cr.* 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. *Preq. Junior status; Minimum 2.75 G.P.A.s in Major, Education and overall. Check individual courses for additional prerequisites.*

EDUC453 *Supervised Teaching of Secondary Schools 120 hrs. 4 cr.* 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. *Preq. Junior status; Minimum 2.75 G.P.A.s in Major, Education and overall. Check individual courses for additional prerequisites.*

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EDUC454 *Supervised Teaching of Secondary Schools* 120 hrs. 4 cr. 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. *Preq. Junior status; Minimum 2.75 G.P.A.s in Major, Education and overall. Check individual courses for additional prerequisites.*

EDUC455 *Supervised Teaching of Secondary Schools* 120 hrs. 4 cr. 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. *Preq. Junior status; Minimum 2.75 G.P.A.s in Major, Education and overall. Check individual courses for additional prerequisites.*

EDUC456 *Supervised Teaching of Secondary Schools* 120 hrs. 4 cr. 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. *Preq. Junior status; Minimum 2.75 G.P.A.s in Major, Education and overall. Check individual courses for additional prerequisites.*

EDUC457 *Supervised Teaching of Secondary Schools* 120 hrs. 4 cr. 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. *Preq. Junior status; Minimum 2.75 G.P.A.s in Major, Education and overall. Check individual courses for additional prerequisites.*

EDUC458 *Supervised Student Teaching, Spanish, Grades 7-9* 120 hrs. 4 cr. 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. *Preq. Admission to Student Teaching. 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* 120 hrs. 4 cr. 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. *Preq. Admission to Student Teaching. Mandatory participation in a weekly student teaching seminar enables candidates to examine educational issues that directly impact on their daily classroom experiences.*

EDUC570 *Advanced Methods in High School Science Instruction* 7 hrs. 4 cr. 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. *Preq. Acceptance in Project Leadership. 2 hours lecture, 5 hours laboratory.*

EDUC571 *Field Activities in Science Education* 6 hrs. 2 cr. 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. *Preq. EDUC 570. 6 hours field work.*

EDUC572 *Advanced Methods in High School Math Instruction* 7 hrs. 4 cr. 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. *Preq. Acceptance in Project Leadership. 2 hours lecture, 5 hours laboratory.*

EDUC573 *Field Activities in Math Education* 6 hrs. 2 cr. 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. *Preq. EDUC 572.*

English

ENG125 (Liberal Arts) *Introduction to College Writing* 4 hrs. 4 cr. Research, reading and writing for college studies. *Preq. By placement examination.*

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ENG200 (Liberal Arts) *Understanding Literature* 3 hrs. 3 cr. 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. *Preq.* ENG 125.

ENG208 (Liberal Arts) *Understanding Drama* 3 hrs. 3 cr. An introduction to reading and viewing plays, designed to develop the students interpretive skills and appreciation of the literature of the theatre. *Preq.* ENG 200.

ENG209 (Liberal Arts) *Understanding Poetry* 3 hrs. 3 cr. An introduction to the close reading of a variety of poems, designed to develop the students interpretive skills and appreciation of poetry. *Preq.* ENG 200.

ENG211 (Liberal Arts) *Foundations of Western Literature* 3 hrs. 3 cr. Selected texts from the biblical, classical, and medieval periods. *Preq.* ENG 200

ENG220 (Liberal Arts) *The English Tradition I* 3 hrs. 3 cr. Major English authors from the Middle Ages through the 18th century. *Preq.* ENG 200.

ENG230 (Liberal Arts) *The English Tradition II* 3 hrs. 3 cr. Major British literature of the 19th and 20th centuries. *Preq.* ENG 200.

ENG240 (Liberal Arts) *The American Tradition* 3 hrs. 3 cr. Major American literature of the 19th and 20th centuries. *Preq.* ENG 200.

ENG270 (Liberal Arts) *Introduction to English Grammar and Syntax* 3 hrs. 3 cr. 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. *Preq.* ENG 125. *This is a Writing Intensive Course. This course may be offered in either online, hybrid, or face-to-face format.*

ENG286 (Liberal Arts) *Introduction to Creative Writing* 3 hrs. 3 cr. The basics of writing imaginative, technically correct short stories and poems. *Preq.* ENG 125. *This is a Writing Intensive course.*

ENG298 (Liberal Arts) *Special Topics in English* 3 hrs. 3 cr. A selected topic in English studies. *Preq.* ENG 125. *The topic varies with each offering.*

ENG301 (Liberal Arts) *The Old Testament* 3 hrs. 3 cr. The Old Testament as literature; its cultural relation to biblical times and its impact on the subsequent literature of the Judeo-Christian world. *Preq.* ENG 200.

ENG302 (Liberal Arts) *The New Testament and the Apocrypha* 3 hrs. 3 cr. 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. *Preq.* ENG 200.

ENG311 (Liberal Arts) *Literary Studies* 3 hrs. 3 cr. A variety of reading approaches and critical theories applied to the study of literature. *Preq.* ENG 200.

ENG318 (Liberal Arts) *Shakespeare: The Major Works* 3 hrs. 3 cr. Selected reading of the major plays and poems. *Preq.* ENG 200.

ENG328 (Liberal Arts) *Medieval and Renaissance Literature* 3 hrs. 3 cr. Prose, poetry and drama of the Middle Ages and the English Renaissance, including such major figures as Chaucer, Shakespeare, Donne and Milton. *Preq.* ENG 200.

ENG333 (Liberal Arts) *Restoration and Eighteenth-Century Literature* 3 hrs. 3 cr. Prose, poetry and drama from 1660 through the 18th century, including such major figures as Congreve, Swift, Pope, Fielding and Johnson. *Preq.* ENG 200.

ENG343 (Liberal Arts) *The Romantic Period in England* 3 hrs. 3 cr. Literature of the 19th-century English Romantic movement with emphasis on poetry, including such major figures as Coleridge, Wordsworth, Byron, Shelly and Keats. *Preq.* ENG 200.

ENG344 (Liberal Arts) *Victorian Literature* 3 hrs. 3 cr. Literature of Victorian England; emphasis on poetry and the novel, including such major figures as Browning, Tennyson, the Brontes, Dickens, Eliot and Hardy. *Preq.* ENG 200.

ENG345 (Liberal Arts) *Twentieth-Century British Literature* 3 hrs. 3 cr. Major authors and movements in British Literature of the 20th century. *Preq.* ENG 200.

ENG350 (Liberal Arts) *American Voices and Visions I* 3 hrs. 3 cr. Literature of America from the Colonial Period through the Civil War. *Preq.* ENG 200.

ENG351 (Liberal Arts) *American Romanticism* 3 hrs. 3 cr. 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. *Preq.* ENG 200.

ENG352 (Liberal Arts) *American Voices and Visions II* 3 hrs. 3 cr. Literature of America from the Post Civil War Period through World War II. *Preq.* ENG 200.

ENG353 (Liberal Arts) *Nineteenth-Century American Literature* 3 hrs. 3 cr. 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. *Preq.* ENG 200.

ENG355 (Liberal Arts) *Twentieth-Century American Literature* 3 hrs. 3 cr. Major 20th century American authors and poets, their historical, social and cultural contexts. *Preq.* ENG 200.

ENG356 (Liberal Arts) *Studies in an American Literary Genre or Movement* 3 hrs. 3 cr. 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. *Preq.* ENG 200. *The topic varies with each offering. This course can be taken a maximum of two times by any one student.*

ENG357 (Liberal Arts) *The Literature of the Harlem Renaissance* 3 hrs. 3 cr. Poetry, drama, prose fiction, autobiography, oratory, informal essays, and literary and cultural criticism from the Harlem Renaissance. Some appraisal of music, film, and the visual arts. *Preq.* ENG 200.

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ENG364 (Liberal Arts) *The Tragic Vision* 3 hrs. 3 cr. Selected readings in tragedy from ancients to moderns; emphasis on 20th century. *Preq.* ENG 200.

ENG365 (Liberal Arts) *The Comic Vision* 3 hrs. 3 cr. Selected readings in comedy from ancients to moderns; emphasis on 20th century. *Preq.* ENG 200.

ENG370 (Liberal Arts) *Advanced English Grammar and Style* 3 hrs. 3 cr. Grammar and punctuation; sentence and discourse patterns; aspects of usage and style illustrated and practiced. *Preq.* ENG 200.

ENG371 (Liberal Arts) *History of the English Language* 3 hrs. 3 cr. 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. *Preq.* ENG 200.

ENG373 (Liberal Arts) *Writing for Business* 3 hrs. 3 cr. 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. *Preq.* WRIT 301 or WRIT 302 or WRIT 303. *This is a Writing Intensive course.*

ENG375 (Liberal Arts) *English Sociolinguistics* 3 hrs. 3 cr. 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. *Preq.* ENG 200.

ENG384 (Liberal Arts) *Writing for Electronic Media* 3 hrs. 3 cr. Study of writing in such electronic media as weblogs, websites, and other content management systems. *Preq.* ENG 125.

ENG386 (Liberal Arts) *Poetry Workshop* 3 hrs. 3 cr. An advanced workshop for poetry students aiming at publication and public readings. *Preq.* ENG 286.

ENG387 (Liberal Arts) *Short Story Workshop* 3 hrs. 3 cr. An advanced workshop for short story and novel writers aiming at publication. *Preq.* ENG 286.

ENG388 (Liberal Arts) *Playwriting Workshop* 3 hrs. 3 cr. An advanced creating writing workshop designed to give students a basic foundation in the theory and practice of writing for the stage. *Preq.* ENG 286.

ENG390 (Liberal Arts) *Caribbean Literatures in English* 3 hrs. 3 cr. Historical and contemporary Caribbean issues - such as colonialism, creolization, gender, and race - explored through literature, written in English, from and about the Caribbean. *Preq.* ENG 200.

ENG392 (Liberal Arts) *African-American Literature* 3 hrs. 3 cr. Poetry, prose and drama of African-American writers. *Preq.* ENG 200.

ENG395 (Liberal Arts) *Women Writers* 3 hrs. 3 cr. An examination of works by major women writers of the past and important contemporary figures, exploring their literary themes and recent feminist criticism. *Preq.* ENG 200.

ENG399 (Liberal Arts) *Special Topics in English* 3 hrs. 3 cr. A selected topic in English studies. *Preq.* ENG 200. *The topic varies with each offering.*

ENG410 (Liberal Arts) *Seminar in English: Special Topics* 3 hrs. 3 cr. A special topic in English studies. *Preq.* WRIT 301 by permission of the chair. *The topic varies with each offering. May be repeated for credit with consent of advisor. This is a writing Intensive course.*

ENG430 (Liberal Arts) *Seminar in British Literature* 3 hrs. 3 cr. A special topic in British literature. *Preq.* WRIT 301 by permission of the chair. *The topic varies with each offering. May be repeated for credit with consent of advisor. This is a writing Intensive course.*

ENG450 (Liberal Arts) *Seminar in American Literature* 3 hrs. 3 cr. A special topic in American literature. *Preq.* WRIT 301 by permission of the chair. *The topic varies with each offering. May be repeated for credit with consent of advisor. This is a writing Intensive course.*

ENG470 (Liberal Arts) *Seminar in the English Language* 3 hrs. 3 cr. A special topic in the English language. *Preq.* WRIT 301 by permission of the chair. *The topic varies with each offering. May be repeated for credit with consent of advisor. This is a writing Intensive course.*

ENG480 (Liberal Arts) *Seminar in Writing Journalism* 3 hrs. 3 cr. A special topic related to writing or journalism. *Preq.* WRIT 301 by permission of the chair. *The topic varies with each offering. May be repeated for credit with consent of advisor. This is a writing Intensive course.*

ENG486 Publishing Fieldwork 2 hrs. 3 cr. Students work for a publishing company, magazine or journal, writing bylined articles. *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). 2 hours lecture plus a minimum of 105 hours of work experience per semester.

ENG490 (Liberal Arts) *Senior Research in English* 3 hrs. 3 cr. Intensive individually guided advanced research in English or American language and literature. *Preq.* Instructor permission required

ENG492 (Liberal Arts) *Honors Research in English* 0 hrs. 3 cr. A two semester sequence open only to students with a GPA of 3.0 or higher in the major. *Preq.* ENG 209 and ENG 211; WRIT 301; Senior status. Hours arranged. Completion of a substantial piece of supervised individual research for honors in English.

ENG493 (Liberal Arts) *Honors Research in English* 0 hrs. 3 cr. A two semester sequence open only to students with a GPA 3.0 or higher in the major. *Preq.* ENG 209 and ENG 211; WRIT 301; Senior status. Hours arranged. Completion of a substantial piece of supervised individual research for honors in English.

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ENG495 (Liberal Arts) *Independent Study in Professional or Creative Writing 0 hrs. 3 cr.* 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. *Preq. Permission of instructor and department. Hours arranged. Not offered on a regular basis. Availability to be determined by the department.*

ENG496 (Liberal Arts) *Independent Study in Professional or Creative Writing 0 hrs. 3 cr.* 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. *Preq. Permission of instructor and department. Hours arranged. Not offered on a regular basis. Availability to be determined by the department.*

ENG498 (Liberal Arts) *Independent Study 0 hrs. 3 cr.* Completion of a substantial piece of supervised individual research in English studies. *Preq. Permission of instructor and department. Hours to be arranged.*

ENG499 (Liberal Arts) *Independent Study 0 hrs. 3 cr.* Completion of a substantial piece of supervised individual research in English studies. *Preq. Permission of instructor and department. Hours to be arranged.*

English as a Second Language

ESL145 (Liberal Arts) *Academic Reading and Writing for Non-Native Speakers I 6 hrs. 2 cr.* Students of English as a Second Language who have achieved a high intermediate level of proficiency will acquire the basic rhetorical knowledge and writing skills necessary to meet the writing requirements of their college courses. They will also learn to use information from readings to complete assigned writing tasks.

ESL150 (Liberal Arts) *Academic Reading and Writing for Non-Native Speakers II 8 hrs. 2 cr.* Students of English as a Second Language who have achieved an advanced level of proficiency will acquire the basic knowledge and skills necessary to meet the writing requirements of their college courses. They will 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.*

Art

FA104 (Liberal Arts) *Introduction to Fine Arts 3 hrs. 3 cr.* 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(Liberal Arts) ✘ *Visual Design: Two Dimensional 4 hrs. 3 cr.* 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(Liberal Arts) ✘ *Color 4 hrs. 3 cr.* Introductory studies employing color; investigation of many different visual interactions and psychological effects. Some basic physics and a brief history of color theory.

FA152 (Liberal Arts) ✘ *Visual Design: Three Dimensional 4 hrs. 3 cr.* 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 (Liberal Arts) ✘ *Drawing I 4 hrs. 3 cr.* 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 (Liberal Arts) ✘ *Graphic Design I 4 hrs. 3 cr.* Visual design and communication theory. Visual forms and patterns as means of graphic signification; sign, symbol, and layout; poster and book design.

FA254 (Liberal Arts) ✘ *Graphic Design II 4 hrs. 3 cr.* Visual design and communication theory. Typography and printing techniques using letterpress and silk screen. *Preq. FA 253 or permission of department. Not offered on a regular basis. Availability to be determined by the department.*

FA258 (Liberal Arts) ✘ *Graphics I: Print-Making 4 hrs. 3 cr.* 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 (Liberal Arts) ✘ *Painting I 4 hrs. 3 cr.* Techniques of painting in various mediums.

FA265 (Liberal Arts) ✘ *Painting II 4 hrs. 3 cr.* Techniques of painting in various mediums. *Preq. FA 264.*

FA273(Liberal Arts) ✘ *Sculpture I 4 hrs. 3 cr.* Additional aspects of three-dimensional design in relation to one or more sculptural materials and their corresponding techniques.

FA274 (Liberal Arts) ✘ *Sculpture II 4 hrs. 3 cr.* 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. *Preq. FA 273.*

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FA283 (Liberal Arts) ✘ *Visual Communication Media I* 4 hrs. 3 cr. 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 (Liberal Arts) ✘ *Computer Graphics I* 4 hrs. 3 cr. 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. *Preq. Any 3 credit Fine Arts Studio course.*

FA290 (Liberal Arts) *Ancient Art* 3 hrs. 3 cr. Ancient architecture, sculpture, and painting from prehistoric to Roman times. *Preq. FA 104 or permission of department.*

FA291 (Liberal Arts) *Art of Medieval Europe* 3 hrs. 3 cr. Architecture, sculpture, and painting from early Christian through the Gothic period. *Preq. FA 104 or permission of department.*

FA296 (Liberal Arts) *African Art* 3 hrs. 3 cr. The forms and historical style of African Art. *Preq. FA 104 or permission of department. Not offered on a regular basis. Availability to be determined by the department.*

FA297 (Liberal Arts) *History of Photography* 3 hrs. 3 cr. A chronological and thematic history of the medium from its beginnings until the present day, examining technological and aesthetic developments. *Preq. FA 104 Not offered on a regular basis. Availability to be determined by the department.*

FA298 (Liberal Arts) *Twentieth Century Trends in Photography* 3 hrs. 3 cr. 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. *Preq. FA 297 or FA 104 or FA 381. Field trips will be included. Not offered on a regular basis. Availability to be determined by the department.*

FA303 (Liberal Arts) *Film History: Style and Imagination I* 4 hrs. 3 cr. 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. *Preq. ENG 120 or FA 104 or permission of department. 2 hours lecture, 2 hours laboratory. Not offered on a regular basis. Availability to be determined by the department.*

FA304 (Liberal Arts) *Film History: Style and Imagination II* 4 hrs. 3 cr. 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. *Preq. ENG 120 or FA 104 or permission of department. 2 hours lecture, 2 hours laboratory. Not offered on a regular basis. Availability to be determined by the department.*

FA325 (Liberal Arts) *Women and Art* 3 hrs. 3 cr. A chronological and thematic overview of women as both producers and subject of art, including a historical survey of prominent female artists and their work, as well as investigation of how women have been portrayed in art over time by both genders. *Preq. FA 104*

FA355 (Liberal Arts) ✘ *Drawing II* 4 hrs. 3 cr. Continuation of Fine Arts 155; advanced problems. *Preq. FA 155 or permission of department.*

FA358 (Liberal Arts) ✘ *Graphics II: Print-Making* 4 hrs. 3 cr. 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. *Preq. FA 258. Not offered on a regular basis. Availability to be determined by the department.*

FA364 (Liberal Arts) ✘ *Painting III* 4 hrs. 3 cr. Techniques of painting in various mediums. *Preq. FA 264.*

FA365 (Liberal Arts) ✘ *Painting IV* 4 hrs. 3 cr. Techniques of painting in various mediums. *Preq. FA 264.*

FA373 (Liberal Arts) ✘ *Sculpture III* 4 hrs. 3 cr. Investigation of one or more sculptural materials and their corresponding techniques. *Preq. FA 273 or permission of department. See also FA 274. Not offered on a regular basis. Availability to be determined by the department.*

FA374 (Liberal Arts) ✘ *Sculpture IV* 4 hrs. 3 cr. Investigation of one or more sculptural materials and their corresponding techniques. *Preq. FA 273 or permission of department. See also FA 274. Not offered on a regular basis. Availability to be determined by the department.*

FA381 (Liberal Arts) ✘ *Photography I* 4 hrs. 3 cr. Fundamentals of photographic communication including basic shooting and darkroom techniques.

FA382 (Liberal Arts) ✘ *Photography II* 4 hrs. 3 cr. Continuation of Fine Arts 381; emphasis on the development of a personal point of view. The exploration and perfecting of various advanced photographic techniques. *Preq. FA 381.*

FA383 (Liberal Arts) ✘ *Visual Communication Media II* 4 hrs. 3 cr. 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. *Preq. FA 283. Not offered on a regular basis. Availability to be determined by the department.*

FA384 (Liberal Arts) ✘ *Computer Graphics II* 4 hrs. 3 cr. The Macintosh computer as a specialized design instrument. Exposition of 2- and 3-dimensional material with advanced programs, including Adobe Photoshop, Illustrator, and PageMaker. *Preq. FA 284 or permission of department. Final project requires camera-ready presentation with PageMaker.*

*Courses which are liberal arts for all students are identified as: (Liberal Arts).

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FA385 (Liberal Arts) ✘ *Film Making I* 4 hrs. 3 cr. Development of special skill in shooting and editing to explore the visual potential of the medium. Analytical review of student and professional films. *Preq.* FA 283. *Not offered on a regular basis. Availability to be determined by the department.*

FA386 (Liberal Arts) ✘ *Film Making II* 4 hrs. 3 cr. 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. *Preq.* FA 283. *Not offered on a regular basis. Availability to be determined by the department.*

FA390 (Liberal Arts) *High Renaissance and Late Sixteenth-Century Art* 3 hrs. 3 cr. Architecture, sculpture, and painting of the Italian masters of the 16th century. *Preq.* FA 104 or *permission of department.*

FA393 (Liberal Arts) *American Art to 1913* 3 hrs. 3 cr. 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. *Preq.* FA 104 or *permission of department.* *Not offered on a regular basis. Availability to be determined by the department.*

FA394 (Liberal Arts) *Twentieth-Century Art in the United States* 3 hrs. 3 cr. 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. *Preq.* FA 104 or *permission of department.* *Not offered on a regular basis. Availability to be determined by the department.*

FA395 (Liberal Arts) *Latin-American Art* 3 hrs. 3 cr. Architecture, sculpture, and painting in Mexico, Central and South America; Pre-Columbian styles of the New World; spread of the Spanish tradition. *Preq.* FA 104 or *permission of department.* *Not offered on a regular basis. Availability to be determined by the department.*

FA398 (Liberal Arts) *Afro-American Art* 3 hrs. 3 cr. Art of Black people in the United States: its form as a significant contribution to the American scene. *Preq.* FA 104 or *permission of department.* *Not offered on a regular basis. Availability to be determined by the department.*

FA402 (Liberal Arts) *Media, Culture, and the Visual Arts* 3 hrs. 3 cr. 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. *Preq.* FA 104 or *permission of department.* *Not offered on a regular basis. Availability to be determined by the department.*

FA403 (Liberal Arts) *Film and the Modern Arts* 3 hrs. 3 cr. Major aesthetic movements of the modern era as they have influenced and reflected the development and achievements of cinema: Expressionism, Dada-Surrealism, Cubism, Constructivism. *Preq.* FA 297 or *permission of department.* *Not offered on a regular basis. Availability to be determined by the department.*

FA444 (Liberal Arts) ✘ *Advanced Studio I* 4 hrs. 3 cr. 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. *Preq.* *Senior status or permission of department.* *Not offered on a regular basis. Availability to be determined by the department.*

FA445 (Liberal Arts) ✘ *Advanced Studio II* 4 hrs. 3 cr. 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. *Preq.* *Senior status or permission of department.* *Not offered on a regular basis. Availability to be determined by the department.*

FA455 (Liberal Arts) ✘ *Advanced Drawing I* 4 hrs. 3 cr. Investigation of basic drawing systems; the development of graphic structure. *Preq.* FA 355 or *permission of department.* *Not offered on a regular basis. Availability to be determined by the department.*

FA456 (Liberal Arts) ✘ *Advanced Drawing II* 4 hrs. 3 cr. Continuation of FA 455, advanced problems *Preq.* FA 355 or *permission of department.* *Not offered on a regular basis. Availability to be determined by the department.*

FA463 (Liberal Arts) ✘ *Painting V* 4 hrs. 3 cr. Techniques of painting in various mediums. *Preq.* FA 264. *Not offered on a regular basis. Availability to be determined by the department.*

FA464 (Liberal Arts) ✘ *Painting VI* 4 hrs. 3 cr. Techniques of painting in various mediums. *Preq.* FA 264. *Not offered on a regular basis. Availability to be determined by the department.*

FA465 (Liberal Arts) ✘ *Special Studies; Selected Studio Area* 4 hrs. 3 cr. An intensive investigation of a selected studio problem. *Preq.* *Senior status; 8 credits of studio art, or permission of department.* *The area varies with each offering. Field trips may be required.*

FA466 (Liberal Arts) ✘ *Special Studies; Selected Studio Area* 4 hrs. 3 cr. An intensive investigation of a selected studio problem. *Preq.* *Senior status; 8 credits of studio art, or permission of department.* *The area varies with each offering. Field trips may be required.*

FA467 (Liberal Arts) ✘ *Special Studies; Selected Studio Area* 4 hrs. 3 cr. An intensive investigation of a selected studio problem. *Preq.* *Senior status; 8 credits of studio art, or permission of department.* *The area varies with each offering. Field trips may be required.*

FA468 (Liberal Arts) ✘ *Special Studies; Selected Studio Area* 4 hrs. 3 cr. An intensive investigation of a selected studio problem. *Preq.* *Senior status; 8 credits of studio art, or permission of department.* *The area varies with each offering. Field trips may be required.*

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FA469 (Liberal Arts) ✘ *Special Studies; Selected Studio Area* 4 hrs. 3 cr. An intensive investigation of a selected studio problem. *Preq. Senior status; 8 credits of studio art, or permission of department. The area varies with each offering. Field trips may be required.*

FA473 (Liberal Arts) ✘ *Sculpture V* 4 hrs. 3 cr. Investigation of one or more sculptural materials and their corresponding techniques. *Preq. FA 273 or permission of department. See also FA 274. Not offered on a regular basis. Availability to be determined by the department.*

FA474 (Liberal Arts) ✘ *Sculpture VI* 4 hrs. 3 cr. Investigation of one or more sculptural materials and their corresponding techniques. *Preq. FA 273 or permission of department. See also FA 274. Not offered on a regular basis. Availability to be determined by the department.*

FA475 (Liberal Arts) ✘ *Special Studies Seminar: Selected Topics in Art History* 3 hrs. 3 cr. A highly intensive study of a selected art history topic. *Preq. Senior status; 9 credits of art history, or permission of department. The topic varies with each offering. Field trips may be required and outside speakers may be invited.*

FA476 (Liberal Arts) ✘ *Special Studies Seminar: Selected Topics in Art History* 3 hrs. 3 cr. A highly intensive study of a selected art history topic. *Preq. Senior status; 9 credits of art history, or permission of department. The topic varies with each offering. Field trips may be required and outside speakers may be invited.*

FA477 (Liberal Arts) ✘ *Special Studies Seminar: Selected Topics in Art History* 3 hrs. 3 cr. A highly intensive study of a selected art history topic. *Preq. Senior status; 9 credits of art history, or permission of department. The topic varies with each offering. Field trips may be required and outside speakers may be invited.*

FA478 (Liberal Arts) ✘ *Special Studies Seminar: Selected Topics in Art History* 3 hrs. 3 cr. A highly intensive study of a selected art history topic. *Preq. Senior status; 9 credits of art history, or permission of department. The topic varies with each offering. Field trips may be required and outside speakers may be invited.*

FA479 (Liberal Arts) ✘ *Special Studies Seminar: Selected Topics in Art History* 3 hrs. 3 cr. A highly intensive study of a selected art history topic. *Preq. Senior status; 9 credits of art history, or permission of department. The topic varies with each offering. Field trips may be required and outside speakers may be invited.*

FA481 (Liberal Arts) ✘ *Photography III* 4 hrs. 3 cr. Continuation of individual photography problems; emphasis on broadening and strengthening of perceptual individuality. *Preq. FA 381.*

FA482 (Liberal Arts) ✘ *Photography IV* 4 hrs. 3 cr. Independent problems; use of basic skills to develop personal statements. *Preq. FA 381.*

FA488 (Liberal Arts) ✘ *Video I* 4 hrs. 3 cr. Function, structure and procedures of video as an art form and a teaching aid; formal program presentations. *Preq. FA 283. Not offered on a regular basis. Availability to be determined by the department.*

FA489 (Liberal Arts) ✘ *Video II* 4 hrs. 3 cr. Central theory of TV, aesthetic and techniques; creative experimentation of TV as art form. *Preq. FA 283. Not offered on a regular basis. Availability to be determined by the department.*

FA490 (Liberal Arts) Twentieth-Century Art 3 hrs. 3 cr. Architecture, sculpture, and painting in the 20th century to the present time. *Preq. FA 104 or permission of department. Not offered on a regular basis. Availability to be determined by the department.*

FA499 (Liberal Arts) Research in Art History 3 hrs. 3 cr. Examination of a special problem in art history and the writing of a research paper under the direction of a member of the department. *Preq. 9 credits of Art History and department approval.*

French

FREN101 (Liberal Arts) Elementary French I 4 hrs. 4 cr. 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 (Liberal Arts) Elementary French II 4 hrs. 4 cr. Continuation of the beginners course; more complex grammatical structures; integrated reading and further practice in conversation. *Preq. FREN 101 or FREN 113, or two years of secondary school French, or by placement examination.*

FREN104 (Liberal Arts) Rapid Review of Basic French 3 hrs. 3 cr. A refresher course of basic French grammar and reading integrating the use of tapes and laboratory materials. *Preq. FREN 102. 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 (Liberal Arts) Intermediate French I 3 hrs. 3 cr. Intensive oral-aural practice based on selected readings; functional review of grammar. *Preq. FREN 102 or FREN 114. Offered Spring semesters.*

FREN106 (Liberal Arts) Intermediate French II 3 hrs. 3 cr. Development of reading and writing proficiency in the intermediate level using revision and editing techniques augmented by selected literary texts. *Preq. FREN 105 or 4 years of secondary school French or by placement exam.*

FREN110 (Liberal Arts) Intensive Elementary French for Health Professions 4 hrs. 3 cr. Intensive beginners course in French, with special attention to the vocabulary, grammatical structures and cultural content relevant for health care providers. Students will be evaluated on the basis of oral, listening, reading and writing skills, through tests, oral presentations and short writing assignments. *Preq. Department permission required. 2 hours lecture, 2 hours laboratory. This course may be used to fulfill the General Education Requirement in Foreign Languages only for students in Health Professions programs.*

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FREN200 (Liberal Arts) *Commercial French I* 3 hrs. 3 cr. Specialized language used in the French world of commerce; composing and translating business letters, commercial documents and import-export terminology. *Preq. FREN 105 or native speaker. Not offered on a regular basis. Availability to be determined by the department.*

FREN201 (Liberal Arts) *Commercial French II* 3 hrs. 3 cr. This course is the continuation of Commercial French I and will focus on the speaking and writing of Business French, as it is used in France, the European Union and the Francophone world. *Preq. FREN 200 or Department permission required.*

FREN206 (Liberal Arts) *Introduction to Haitian Literature* 3 hrs. 3 cr. Novel, drama and poetry of the twentieth century in Haiti. *Preq. FREN 106 or permission of the department. Not offered on a regular basis. Availability to be determined by the department.*

FREN210 (Liberal Arts) *Introduction to Literary Theory and Analysis* 3 hrs. 3 cr. An introduction through close reading of selected texts to a variety of reading approaches and critical methodology central to the study of literature. *Preq. FREN 106.*

FREN213 (Liberal Arts) *Intermediate Conversation* 3 hrs. 3 cr. For non-native speakers wishing to increase fluency and accuracy in French; based on readings related to situations in modern life. *Preq. FREN 105. Not offered on a regular basis. Availability to be determined by the department.*

FREN217 (Liberal Arts) *Advanced Grammar and Composition* 3 hrs. 3 cr. An intensive study of the French grammar which addresses the evolving needs of French stylistics and composition. *Preq. FREN 106. Not offered on a regular basis. Availability to be determined by the department.*

FREN218 (Liberal Arts) *French Stylistics* 3 hrs. 3 cr. This course will provide students with tools to help them analyze literary texts from a stylistic point of view. It is based on close reading of representative modern writers. *Preq. FREN 106 or Department permission required.*

FREN220 (Liberal Arts) *Survey of French Literature II* 3 hrs. 3 cr. 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. *Preq. FREN 106 or department permission required.*

French

FREN226 (Liberal Arts) *French & Francophone Women's Writing* 3 hrs. 3 cr. Introduces students to significant literature written by women of the French and Francophone speaking world. *Preq. ENG 125.*

FREN231 (Liberal Arts) *Survey of French Literature I* 3 hrs. 3 cr. This course is a survey of major works of French literature from the Middle Ages through the French Revolution in 1789. It includes epic and lyric poetry, early theater, philosophical essays, prose, novel, and drama. *Preq. French 106, or department permission required.*

FREN232 (Liberal Arts) *Survey of French Literature II* 3 hrs. 3 cr. 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. *Preq. FREN 231 or Department permission required.*

FREN233 (Liberal Arts) *French for the Tourism and Travel Industries* 3 hrs. 3 cr. This course is designed to familiarize students with situations pertaining to travel and tourism in the United States. *Preq. FREN 106 or Department permission required.*

FREN234 (Liberal Arts) *French for the Health Professions* 3 hrs. 3 cr. This course intends to prepare our students to handle medical situations in French. It will provide them with basic vocabulary concerning the human body, physical and mental illnesses, medical specialties and medications. *Preq. FREN 106 or Department permission required.*

FREN235 (Liberal Arts) *French Linguistics* 3 hrs. 3 cr. 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. *Preq. FREN 106 or department permission required. 3 hours lecture.*

FREN240 (Liberal Arts) *Translation I* 3 hrs. 3 cr. 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. *Preq. FREN 106 or native speaker or permission of department and completion of Instrumental English requirement. Not offered on a regular basis. Availability to be determined by the department.*

FREN241 (Liberal Arts) *Translation II* 3 hrs. 3 cr. Continuation of French 240; more extensive translation of commercial, journalistic, literary and scientific texts. *Preq. FREN 240 or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.*

FREN300 (Liberal Arts) *The Haitian Novel from 1901 to 1915* 3 hrs. 3 cr. Haitian novel from its beginning in 1901 to 1915. Works by such major figures as Marcelin, Hibbert, and Lhérisson will be studied. *Preq. FREN 106 or Department permission required.*

FREN301 (Liberal Arts) *The Haitian Novel after 1915* 3 hrs. 3 cr. This course is an introduction to the blossoming of the Haitian novel. It focuses on some major writers in the 20th century, such as Roumain, Alexis, Chauvet, Frankétienne, Fignolé, etc. *Preq. FREN 106 or Department permission required.*

FREN302 (Liberal Arts) *Haitian Poetry through 1915* 3 hrs. 3 cr. Haitian poetry from its beginning to 1915. Works by such major figures as Durand, Vilaire, etc. will be studied. *Preq. FREN 106 or Department permission required.*

FREN303 (Liberal Arts) *Haitian Poetry after 1915* 3 hrs. 3 cr. This course explores the growth of the Haitian poetry during the 20th Century. It focuses on works by famous poets from the Movement indigéniste to Haiti littéraire. *Preq. FREN 106 or Department permission required.*

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FREN304 (Liberal Arts) *The Literature of Quebec* 3 hrs. 3 cr. This course is an introduction to major Francophone works by 20th-century writers in Québec. *Req. FREN 106 or Department permission required.*

FREN305 (Liberal Arts) *Francophone Literature of the Maghreb* 3 hrs. 3 cr. This course will examine works in French by Tunisian, Algerian and Moroccan authors writing in a postcolonial society about their culture, religion, society and dreams. *Req. FREN 106 or Department permission required.*

FREN313 (Liberal Arts) *History of the French Language* 3 hrs. 3 cr. The evolution of the French language against a background of political, economic and social developments. *Req. FREN 106 or permission of department. Not offered on a regular basis. Availability to be determined by the department.*

FREN319 (Liberal Arts) *The French Novel through 1789* 3 hrs. 3 cr. This course will examine the function and role of the novel in France, beginning with its appearance in the 17th century and its development into a major literary form by the 18th century. *Req. FREN 106 or Department permission required.*

FREN320 (Liberal Arts) *The Nineteenth Century French Novel* 3 hrs. 3 cr. This course will explore chief masterpieces of important novelists like Stendhal, Balzac, Flaubert and Zola. *Req. FREN 106 or Department permission required.*

FREN321 (Liberal Arts) *The Twentieth Century French Novel* 3 hrs. 3 cr. This course will explore the various literary movements and their relationships to the French 20th century novel. *Req. FREN 106 or Department permission required.*

FREN322 (Liberal Arts) *Gide, Proust and Duras* 3 hrs. 3 cr. This course will explore works by three of the most important figures in 20th-century French literature, who explore the place of the individual in society and bring to light their characters' inner workings. *Req. FREN 106 or Department permission required.*

FREN325 (Liberal Arts) *The Age of Enlightenment* 3 hrs. 3 cr. 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.*

FREN330 (Liberal Arts) *The Age of Classicism* 3 hrs. 3 cr. 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 (Liberal Arts) *Masterpieces of the Middle Ages and the Sixteenth Century* 3 hrs. 3 cr. 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 (Liberal Arts) *Literature of the French West Indies* 3 hrs. 3 cr. 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 (Liberal Arts) *Literature of French Speaking Africa* 3 hrs. 3 cr. Best known writers of Senegal, Cameroon, Guinee, Cote d'Ivoire, and Madagascar and other writers emphasizing negritude and revolt. *Not offered on a regular basis. Availability to be determined by the department.*

FREN340 (Liberal Arts) *Advanced Conversation* 3 hrs. 3 cr. For non-native speakers wishing to increase fluency and accuracy in French at the advanced level. Based on articles of current interest. *Req. FREN 213 and another 200-level French course. Not offered on a regular basis. Availability to be determined by the department.*

FREN341 (Liberal Arts) *French Theater through 1789* 3 hrs. 3 cr. This course will explore the world of the theater from the Middle Ages through the French Revolution and will show how theatrical representation reflects the conflicts and desires of people from different social classes. *Req. FREN 106 or Department permission required.*

FREN342 (Liberal Arts) *French Theater after 1789* 3 hrs. 3 cr. This course will show theatre's evolution in the post-Revolutionary period through today: plays inspired by everyday life, taking place in the real world, evolving into a modern questioning of human existence. *Req. FREN 106 or Department permission required.*

FREN343 (Liberal Arts) *French Poetry through 1789* 3 hrs. 3 cr. This course will explore poetry's evolution from the time of the Troubadours to the lyric pre-Romantic poets, that is, from French poetry's founding texts to the conventions of the Baroque and Classical periods. *Req. FREN 106 or Department permission required.*

FREN344 (Liberal Arts) *French Poetry after 1789* 3 hrs. 3 cr. This course will examine the evolution of poetry in France, beginning with the Romantic poet's attempts to reunite individuals with the natural world. It will also trace the influence and intermingling of poetry with the 20th-century's major literary move. *Req. FREN 106 or Department permission required.*

FREN362 (Liberal Arts) *Themes in French Literature* 3 hrs. 3 cr. An examination of a significant theme as revealed in French literature. *Req. FREN 106. Topic varies with each offering. Not offered on a regular basis. Availability to be determined by the department.*

FREN363 (Liberal Arts) *Themes in French Literature* 3 hrs. 3 cr. An examination of a significant theme as revealed in French literature. *Req. FREN 106. Topic varies with each offering. Not offered on a regular basis. Availability to be determined by the department.*

FREN381 (Liberal Arts) *French Society and Civilization* 3 hrs. 3 cr. The culture and civilization of France against an historical background. *Req. FREN 106. Not offered on a regular basis. Availability to be determined by the department.*

FREN382 (Liberal Arts) *Haitian Culture & Civilization* 3 hrs. 3 cr. 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. *Req. FREN 106 or permission of department. Not offered on a regular basis. Availability to be determined by the department.*

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FREN400 (Liberal Arts) *Senior Seminar* 3 hrs. 3 cr. Individual study under the supervision of a member of the French faculty. *Preq. FREN 106. Not offered on a regular basis. Availability to be determined by the department.*

Geography

GEOG112 (Liberal Arts) *Geography of the New World* 3 hrs. 3 cr. 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 (Liberal Arts) *Geography of the Old World* 3 hrs. 3 cr. 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 (Liberal Arts) *Principles of Physical and Economic Geography* 3 hrs. 3 cr. 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.*

Geology

GEOL110 (Liberal Arts) *Man and the Earth* 3 hrs. 3 cr. 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 (Liberal Arts) *Energy, Resources and the Environment* 3 hrs. 3 cr. 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 (Liberal Arts) *Our Oceanic Environment* 3 hrs. 3 cr. 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 (Liberal Arts) *History of Life* 3 hrs. 3 cr. 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 (Liberal Arts) *Our Earth* 4 hrs. 3 cr. 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. 2 hr, lect, 2 hr lab. A museum visit and a one-day trip are required.*

GEOL207 (Liberal Arts) *Geologic Techniques* 2 hrs. 1 cr. Field and laboratory techniques in geology; field identification of common rocks and minerals; introduction to aerial photographs, topographic and geologic maps. *Preq. GEOL 110. 2 hours laboratory. Two field trips required.*

GEOL211 (Liberal Arts) *Structural Geology* 6 hrs. 4 cr. 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. *Preq. GEOL 110 and GEOL 207 or GEOL 140. 2 hours lecture, 4 hours laboratory. Two field trips required.*

GEOL217 (Liberal Arts) *Earth History with Paleontology* 7 hrs. 5 cr. 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. 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. *Preq. GEOL 110 or GEOL 140 or GEOL 121 4.0 lecture, 3.0 lab*

GEOL225 (Liberal Arts) *Mineralogy* 7 hrs. 5 cr. Principles of crystal symmetry and structure, physical and chemical properties of minerals; mineral identification procedures, descriptive mineralogy, and economic importance of mineral deposits. In addition, utilization of commonly used analytical tools *Preq. GEOL 110 and GEOL 207 or GEOL 140 3 hours lecture, 4 hours laboratory. A field trip may be required.*

GEOL282 (Liberal Arts) *Weather and Climate* 4 hrs. 3 cr. 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. *Preq. Completion of Natural Science General Education Program requirement. 2 hours lecture, 2 hours laboratory.*

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GEOL308 (Liberal Arts) *Geomorphology* 4 hrs. 3 cr. Descriptive and analytical study of the surface features of the earth. Special emphasis given to stream hydraulics, map and aerial photo interpretation of land forms. *Preq. GEOL 211. 2 hours lecture, 2 hours laboratory. Two field trips required.*

GEOL323 (Liberal Arts) *Field Methods* 3 hrs. 1.5 cr. Use of the Brunton Compass, telescopic alidade, and planetable. *Preq. GEOL 211. Two field trips required.*

GEOL332 (Liberal Arts) *Optical Mineralogy* 3 hrs. 2 cr. 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. *Preq. GEOL 225. 1.0 lecture, 2.0 lab.*

GEOL334 (Liberal Arts) *Petrology* 6 hrs. 4 cr. 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. *Preq. GEOL 332. 2.0 lecture, 4.0 lab. Two field trips are required.*

GEOL340 (Liberal Arts) *Remote Sensing and Air Photo Interpretation* 3 hrs. 2 cr. A survey of the various remote sensing techniques; fundamentals of photogrammetry; interpretation of geologic, geographic and economic features as seen as aerial photographs. *Preq. GEOL 110 or GEOL 140 and MATH 101. 1 hour lecture, 2 hours laboratory. A one day field trip is required.*

GEOL341 (Liberal Arts) *Ground Water Hydrology* 2 hrs. 2 cr. The occurrence and movement of ground water; ground water location, evaluation and development; the influence of mankind on the ground water regime. *Preq. GEOL 110 or GEOL 140 and MATH 121. A one day field trip is required.*

GEOL342 (Liberal Arts) *Rock and Soil Mechanics* 3 hrs. 2 cr. Rock and soil mechanics as applied to problems in construction, land development, and slope stability; emphasis on landsliding and surface subsidence problems. *Preq. GEOL 211 and Trigonometry. 1 hours lecture, 2 hours laboratory. A one day field trip is required.*

GEOL343 (Liberal Arts) *Ore Deposits and Ore Evaluation* 3 hrs. 2 cr. 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. *Preq. GEOL 225. 1 hour lecture, 2 hours laboratory. A one day field trip is required.*

GEOL344 (Liberal Arts) *Industrial Minerals and Fossil Fuels* 3 hrs. 2 cr. 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. *Preq. GEOL 225. 1 hour lecture, 2 hours laboratory. A one day field trip is required.*

GEOL346 (Liberal Arts) *Laboratory Techniques in Geology* 3 hrs. 2 cr. 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. *Preq. GEOL 110 or GEOL 140 and GEOL 225. 1 hours lecture, 2 hours laboratory.*

GEOL349 (Liberal Arts) *Assessment of Environmental Impact* 1 hrs. 1 cr. 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. *Preq. GEOL 110 or GEOL 115 or GEOL 140. A one day field trip is required.*

GEOL403 (Liberal Arts) *Paleoecology* 4 hrs. 3 cr. 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. *Preq. GEOL 213 or GEOL 217 or permission of instructor. 2 hours lecture, 2 hours laboratory. Field trip required.*

GEOL411 (Liberal Arts) *Sedimentation* 4 hrs. 3 cr. 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.. *Preq. GEOL 217 and GEOL 225 2 hours lecture, 2 hours laboratory. Two field trips required.*

GEOL412 (Liberal Arts) *Stratigraphy* 4 hrs. 3 cr. 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. *Preq. GEOL 211 and GEOL 217 or permission of instructor. 2 hours lecture, 2 hours laboratory. Two field trips required.*

GEOL425 (Liberal Arts) *Field Mapping* 120 hrs. 4 cr. 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. *Preq. GEOL 323. 120 hours of field work or laboratory. Additional Exepeses required. (Check with geology discipline). A final professional style report is required.*

GEOL441 (Liberal Arts) *Geochemistry* 4 hrs. 3 cr. Survey of geochemical principles and techniques; distribution and migration of the chemical elements within the earth; radioactive and stable isotopes in geology. *Preq. GEOL 334. 2 hours lecture, 2 hours laboratory. Field trip required.*

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GEOL496 (Liberal Arts) Independent Study 4 hrs. 2 cr. Independent Study or research on advanced topics under the supervision of a member of the faculty. *Preq. Permission of instructor prior to registration. 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 (Liberal Arts) Independent Study 6 hrs. 3 cr. Independent Study or research on advanced topics under the supervision of a member of the faculty. *Preq. Permission of instructor prior to registration. 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 (Liberal Arts) Independent Study 4 hrs. 2 cr. Individual research on advanced topics under the supervision of a member of the faculty. *Preq. Permission of instructor prior to registration. 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 (Liberal Arts) Independent Study 6 hrs. 3 cr. Individual research on advanced topics under the supervision of a member of the faculty. *Preq. Permission of instructor prior to registration. 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.*

German

GERM101 (Liberal Arts) Elementary German I 4 hrs. 4 cr. Basic principles of a beginner's course; designed to give the foundations of the language. *Offered when the demand exists.*

GERM102 (Liberal Arts) Elementary German II 4 hrs. 4 cr. Continuation of the beginner's course; more complex grammatical structures, integrated readings and further practice in conversation. *Preq. GERM 101 or GERM 113, or two years of secondary school German, or by placement examination. Offered when the demand exists.*

GERM105 (Liberal Arts) Intermediate German I 3 hrs. 3 cr. Intensive oral-aural practice based on selected readings; functional review of grammar. *Preq. GERM 102 or GERM 114. Offered when the demand exists.*

GERM106 (Liberal Arts) Intermediate German II 3 hrs. 3 cr. Development of reading and writing proficiency in the intermediate level using revision and editing techniques augmented by selected literacy texts. *Preq. GERM 105. Offered when the demand exists.*

GERM128 (Liberal Arts) Scientific German I 3 hrs. 3 cr. 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 (Liberal Arts) Scientific German II 3 hrs. 3 cr. Continuation of German 128. Extensive reading and translation of texts of advanced difficulty. Review of special problems in reading expository German. *Preq. GERM 128 or placement examination. Offered when the demand exists.*

Gerontology

GERO101 (Liberal Arts) Introduction to Gerontology I 3 hrs. 3 cr. Interdisciplinary view of the field of gerontology with emphasis on perspectives offered by anthropology, biology, health and physical education, political science and sociology.

GERO201 (Liberal Arts) Intermediate Gerontology II 3 hrs. 3 cr. 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. *Preq. GERO 101 or permission of the instructor.*

GERO301 (Liberal Arts) Wellness and The Elderly: Programs and Services 3 hrs. 3 cr. 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. *Preq. GERO 201. 3 hours lecture.*

Greek

GRK101 (Liberal Arts) Elementary Greek I 4 hrs. 4 cr. Basic principles of a beginner's course; designed to give the foundations of the language.

GRK102 (Liberal Arts) Elementary Greek II 4 hrs. 4 cr. Continuation of the beginner's course; more complex grammatical structures integrated readings and further practice in conversation. *Preq. GRK 101.*

Health Education

HE111 (Liberal Arts) ✘ Personal Health Issues 3 hrs. 3 cr. 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.*

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HE200 ✘ *Basic Cardiac Life Support 1 hrs. 1 cr.* 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(Liberal Arts) ✘ *Foundations of Health and Wellness 2 hrs. 2 cr.* 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. *Preq. ENG 125.*

HE210 (Liberal Arts) ✘ *Health Issues for the Physical Educator 2 hrs. 2 cr.* 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 (Liberal Arts) ✘ *Stress and Health 2 hrs. 2 cr.* The causes of stress and its relationship to health; self-help techniques for managing stress and tension. *Preq.*

HE219 (Liberal Arts) ✘ *Health Services 3 hrs. 3 cr.* Health services in school and community settings; a review of the health delivery system with implications for health education programs. *Preq.*

HE223 (Liberal Arts) ✘ *Health Behavior 2 hrs. 2 cr.* Factors influencing health choices and decision making. Examination of theoretical models for effecting health behavior change. *Preq. HE 201 and Completion of Behavioral Science Area Requirements.*

HE224 ✘ *Laboratory in Health Behavior 2 hrs. 1 cr.* Students participate in the design and application of various models for health behavior change. *Preq. Completion of Behavioral Science Area Requirements.*

HE241 (Liberal Arts) ✘ *Sex and Sexuality 3 hrs. 3 cr.* Physiology aspects of human sexuality, cross cultural patterns, changing sexual roles, sexuality and the law, premarital behavior, marriage and the family.

HE312 (Liberal Arts) ✘ *Health and Disease 3 hrs. 3 cr.* The nature of communicable and degenerative diseases, with emphasis on agencies, principles and techniques of prevention and control. *Preq.*

HE313 (Liberal Arts) ✘ *Alcohol and Alcoholism 3 hrs. 3 cr.* Physiological, psychological and sociological changes which result from alcohol use and abuse, emphasis on the cause, treatment and prevention of alcoholism and alcohol abuse. *Preq.*

HE314 (Liberal Arts) ✘ *Nutrition and Health 2 hrs. 2 cr.* The relationship of foods and nutrition to personal health and health problems, such as weight control. *Preq.*

HE315 (Liberal Arts) ✘ *Health and the Consumer 2 hrs. 2 cr.* 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. *Preq.*

HE316 (Liberal Arts) ✘ *Family Health 3 hrs. 3 cr.* The physical, social, and emotional aspects of health in relationship to the life cycle within the family. *Preq.*

HE317 ✘ *First Aid and Safety Education 2 hrs. 2 cr.* 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. *Preq.*

HE321 (Liberal Arts) ✘ *Health Counseling 3 hrs. 3 cr.* Theory and practice of individual and group health counseling as applied to weight control, drug abuse, smoking, birth control, and other personal health problems. *Preq. 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.*

HE331 (Liberal Arts) ✘ *Program Planning 3 hrs. 3 cr.* 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. *Preq. WRIT 303, HE 219, HE 223, and HE 224 for Community Health majors or GERO 301 or GERO majors. This is a writing intensive course.*

HE341 (Liberal Arts) ✘ *HIV/AIDS Public Health Implications 3 hrs. 3 cr.* 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. *Preq. ENG 125.*

HE342 (Liberal Arts) ✘ *Drug Use and Abuse 3 hrs. 3 cr.* 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 (Liberal Arts) ✘ *Measurement and Evaluation in Health and Physical Education 3 hrs. 3 cr.* Nature and purpose of measurement in health and physical education; analysis of pertinent test and their use in evaluating performance in these areas. *Preq. MATH 111.*

HE365 (Liberal Arts) ✘ *Research in Health and Physical Education 3 hrs. 3 cr.* 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 profess *Preq. MATH 111 and ENG 125 This is a Writing Intensive (WI) course.*

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HE420 (Liberal Arts) ✘ *Alcoholism Counseling* 3 hrs. 3 cr. The development and application of health counseling skills when working with alcoholics, alcohol abusers and their families in varied educational and therapeutic settings. *Preq. HE 313 and HE 321.*

HE450 (Liberal Arts) ✘ *Practicum in Health Education* 2 hrs. 2 cr. Development of leadership skills in health education. *Coreq. HE 471 or HE 472.*

HE452 (Liberal Arts) ✘ *Cardiovascular Fitness* 4 hrs. 3 cr. 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 *Preq. PE 358 or permission of instructor. 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 (Liberal Arts) *Field Work in Health Education* 2 hrs. 1 cr. A supervised field experience in health education affording the opportunity for intensive work in one of a variety of community health settings. *Preq. Written permission by Health Education faculty prior to registration.*

HE472 (Liberal Arts) *Field Work in Health Education* 2 hrs. 1 cr. A supervised field experience in health education affording the opportunity for intensive work in one of a variety of community health settings. *Preq. Written permission by Health Education faculty prior to registration.*

HE473 (Liberal Arts) *Field Work in Health Education* 4 hrs. 2 cr. A supervised field experience in health education affording the opportunity for intensive work in one of a variety of community health settings. *Preq. HE 320, HE 321 and written permission by Health Education faculty prior to registration.*

HE474 (Liberal Arts) *Field Work in Health Education* 4 hrs. 2 cr. A supervised field experience in health education affording the opportunity for intensive work in one of a variety of community health settings. *Preq. HE 320, HE 321 and written permission by Health Education faculty prior to registration.*

HE481 (Liberal Arts) ✘ *Organization and Administration of Health Education* 3 hrs. 3 cr. 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. *Preq. HE 331.*

HE487 (Liberal Arts) ✘ *Adult Fitness Program* 3 hrs. 3 cr. Planning, designing, managing and evaluating adult fitness programs. *Preq. Junior status in departmental major.*

HE488 (Liberal Arts) ✘ *Health Promotion in the Workplace* 3 hrs. 3 cr. 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. *Preq. HE 331 and permission of department. Not offered on a regular basis. Availability to be determined by the department.*

HE489 (Liberal Arts) ✘ *Special Seminar in Health Education* 1 hrs. 1 cr. Intensive study of a special area of interest in health education. *Preq. Permission of instructor. 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 (Liberal Arts) ✘ *Special Seminar in Health Education* 1 hrs. 1 cr. Intensive study of a special area of interest in health education. *Preq. Permission of instructor. 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 (Liberal Arts) ✘ *Special Seminar in Health Education* 2 hrs. 2 cr. Intensive study of a special area of interest in health education. *Preq. Permission of instructor. Not offered on a regular basis. Availability to be determined by the department.*

HE492 (Liberal Arts) ✘ *Special Seminar in Health Education* 2 hrs. 2 cr. Intensive study of a special area of interest in health education. *Preq. Permission of instructor. Not offered on a regular basis. Availability to be determined by the department.*

HE493 (Liberal Arts) ✘ *Special Seminar in Health Education* 3 hrs. 3 cr. Intensive study of a special area of interest in health education *Preq. Permission of instructor. 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 (Liberal Arts) ✘ *Special Seminar in Health Education* 3 hrs. 3 cr. Intensive study of a special area of interest in health education *Preq. Permission of instructor. 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 (Liberal Arts) ✘ *Independent Study in Health Education* 0 hrs. 1 cr. Investigation of a problem in health education, determined by the student in consultation with a member of the faculty. *Preq. Agreement of faculty member to act as adviser. Hours to be arranged.*

HE496 (Liberal Arts) ✘ *Independent Study in Health Education* 0 hrs. 1 cr. Investigation of a problem in health education, determined by the student in consultation with a member of the faculty. *Preq. Agreement of faculty member to act as adviser. Hours to be arranged.*

HE497 (Liberal Arts) ✘ *Independent Study in Health Education* 0 hrs. 2 cr. Investigation of a problem in health education, determined by the student in consultation with a member of the faculty. *Preq. Agreement of faculty member to act as adviser. Hours to be arranged.*

HE498 (Liberal Arts) ✘ *Independent Study in Health Education* 0 hrs. 2 cr. Investigation of a problem in health education, determined by the student in consultation with a member of the faculty *Preq. Agreement of faculty member to act as adviser. Hours to be arranged.*

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Hebrew

HEB101 (Liberal Arts) *Elementary Hebrew I* 4 hrs. 4 cr. Basic principles of a beginner's course; designed to give the foundations of the language. *Offered when the demand exists.*

HEB102 (Liberal Arts) *Elementary Hebrew II* 4 hrs. 4 cr. Continuation of the beginner's course; more complex grammatical structures, integrated readings and further practice in conversation. *Preq. HEB 101, or two years of secondary school Hebrew, or by placement. Offered when the demand exists.*

HEB105 (Liberal Arts) *Intermediate Hebrew I* 3 hrs. 3 cr. Intensive oral-aural practice based on selected readings; functional review of grammar. *Preq. HEB 102 or HEB 114. Offered when the demand exists.*

HEB106 (Liberal Arts) *Intermediate Hebrew II* 3 hrs. 3 cr. Development of reading and writing proficiency in the intermediate level using revision and editing techniques augmented by selected literacy texts. *Preq. HEB 105. Offered when the demand exists.*

History

HIST100 (Liberal Arts) *History of the Modern World Since 1815* 3 hrs. 3 cr. 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. *Preq. ENG 125.*

HIST101 (Liberal Arts) *Pacific Century: The Emergence of Modern Pacific Asia* 3 hrs. 3 cr. 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. *Preq. ENG 125. Not offered on a regular basis. Availability to be determined by the department.*

HIST105 (Liberal Arts) *The City in the Modern World* 3 hrs. 3 cr. The historical role of the city in the development of the modern world. *Preq. ENG 125. Not offered on a regular basis. Availability to be determined by the department.*

HIST106 (Liberal Arts) *Revolution and Social Thought* 3 hrs. 3 cr. Revolution and social thought as a means of comprehending the development of the modern world. *Preq. ENG 125. Not offered on a regular basis. Availability to be determined by the department.*

HIST108 (Liberal Arts) *The Three Worlds: Europe, the Americas and the Third World in Modern Times* 3 hrs. 3 cr. Europe, the Americas, Africa and Asia in modern times; selected historical studies of imperialism, colonialism, nationalism and independence movements. *Preq. ENG 125.*

HIST113 (Liberal Arts) *The Birth of Europe* 3 hrs. 3 cr. The formation of European civilization from earliest times into the 17th century. *Preq. ENG 125.*

HIST201 (Liberal Arts) *Beginnings of the American People* 3 hrs. 3 cr. 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. *Preq. ENG 125.*

HIST202 (Liberal Arts) *The Emergence of Urban America* 3 hrs. 3 cr. 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. *Preq. ENG 125.*

HIST203 (Liberal Arts) *Slavery in World History* 3 hrs. 3 cr. 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. *Preq. ENG 125. Not offered on a regular basis. Availability to be determined by the department.*

HIST204 (Liberal Arts) *Contemporary America* 3 hrs. 3 cr. 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. *Preq. ENG 125.*

HIST205 (Liberal Arts) *History of Women in the United States* 3 hrs. 3 cr. Women in American history: their status and contributions. *Preq. ENG 125.*

HIST206 (Liberal Arts) *Women and the Family in World History* 3 hrs. 3 cr. 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. *Preq. ENG 125.*

HIST210 (Liberal Arts) *Renaissance, Reformation and the Early Modern European State* 3 hrs. 3 cr. Study of the major cultural and intellectual trends, religious movements, economic and social changes, and political developments that characterized European society in the early modern era, ca. 1350-1715. *Preq. ENG 125*

HIST220 (Liberal Arts) *History of Science* 3 hrs. 3 cr. Traces the conceptual development, from ancient to modern times, of key ideas and methods that define and differentiate Natural Sciences. *Preq. ENG 125.*

HIST257 (Liberal Arts) *East Asia to the Nineteenth Century* 3 hrs. 3 cr. 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. *Preq. ENG 125.*

HIST258 (Liberal Arts) *East Asia from 1800 to the Present* 3 hrs. 3 cr. 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. *Preq. ENG 125. 3 hours lecture.*

HIST262 (Liberal Arts) *History of the Middle East* 3 hrs. 3 cr. 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. *Preq. ENG 125. Not offered on a regular basis.*

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HIST263 (Liberal Arts) *Jewish History: From Ancient Israel until the end of the Middle Ages* 3 hrs. 3 cr. The political, social, economic and religious history of the Jewish people before the entrance of the Jews into the Modern World. *Preq. ENG 125. Not offered on a regular basis.*

HIST264 (Liberal Arts) *Jewish History: The Modern Period* 3 hrs. 3 cr. The emancipation struggle, the rise of modern anti-Semitism, Zionism and the creation of the State of Israel. *Preq. ENG 125. Not offered on a regular basis.*

HIST272 (Liberal Arts) *African-American History* 3 hrs. 3 cr. 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. *Preq. ENG 125. Not offered on a regular basis.*

HIST273 (Liberal Arts) *The American Worker* 3 hrs. 3 cr. 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. *Preq. ENG 125.*

HIST274 (Liberal Arts) *The American Ethnic Experience* 3 hrs. 3 cr. 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. *Preq. ENG 125.*

HIST275 (Liberal Arts) *African History until 1800* 3 hrs. 3 cr. Pre-Colonial period; social, economic, and cultural aspects of African civilization. *Preq. ENG 125.*

HIST276 (Liberal Arts) *African History from 1800 until the Present* 3 hrs. 3 cr. Development of Africa in the light of imperialism and African nationalism. *Preq. ENG 125.*

HIST277 (Liberal Arts) *The Caribbean since Columbus* 3 hrs. 3 cr. Historical account of the experiences of peoples in the Caribbean from European colonization to the present, with emphasis on socio-economic and political problems. *Preq. ENG 125.*

HIST278 (Liberal Arts) *History of Modern India* 3 hrs. 3 cr. 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. *Preq. ENG 125.*

HIST311 (Liberal Arts) *The Colonial Period of American History, 1492-1760* 3 hrs. 3 cr. American colonial experience from the Age of Exploration to the Accession of George III *Preq. ENG 125 and three credits of History. Not offered on a regular basis.*

HIST312 (Liberal Arts) *The Era of the American Revolution, 1760-1815* 3 hrs. 3 cr. The formative years of the American Republic from the War of Independence to the War of 1812. *Preq. ENG 125 and three credits of History.*

HIST313 (Liberal Arts) *The Civil War* 3 hrs. 3 cr. Causes, meaning and results of the war between the states; emphasis on slavery, abolitionism, and Lincoln. *Preq. ENG 125 and three credits of History. Not offered on a regular basis.*

HIST315 (Liberal Arts) *American Diplomatic History, 1789-1914* 3 hrs. 3 cr. Foreign relations of the United States from the American Revolution to 1914. *Preq. ENG 125 and three credits of History. Not offered on a regular basis.*

HIST316 (Liberal Arts) *American Diplomacy in the Twentieth Century* 3 hrs. 3 cr. The United States as a world power from World War I through the Cold War. *Preq. ENG 125 and three credits of History. Not offered on a regular basis.*

HIST317 (Liberal Arts) *History of African American Music, Emphasis on Hip Hop* 3 hrs. 3 cr. This course traces the creation and evolution of Hip Hop from the early 1970s to the present. Specifically, it will chart the growth of a unique youth culture from the streets, parks, and playgrounds of America's most important city to streets, beaches, pubs, dance halls, and parks across the globe. The class will explore the transition of rap music from a counter-culture, to a sub-culture, to mainstream culture. *Preq. ENG 125 and three credits of History. Although the instructor will place much emphasis on rap music, the class also will examine the development of the myriad aspects of Hip Hop Culture, including graffiti writing, breakdancing (and its related forms such as irockini and ipop-lockini), and fashion*

HIST326 (Liberal Arts) *American Economic History since the Civil War* 3 hrs. 3 cr. Evolution of the American economy since the mid-19th century with emphasis on industrialization, growth, capitalism, and periodic instability. *Preq. ENG 125 and three credits of History. Not offered on a regular basis.*

HIST331 (Liberal Arts) *The Ancient Near East and Greece* 3 hrs. 3 cr. Development of civilization in the ancient Orient and Hellenic Greece. *Preq. ENG 125 and three credits of History. Not offered on a regular basis.*

HIST332 (Liberal Arts) *The Ancient World: Rome* 3 hrs. 3 cr. Development of civilization from the Hellenistic period through the fall of the Roman Empire in the West. *Preq. ENG 125 and three credits of History. Not offered on a regular basis.*

HIST333 (Liberal Arts) *Nineteenth-Century Europe* 3 hrs. 3 cr. European development from the age of Napoleon to 1914. *Preq. ENG 125 and three credits of History.*

HIST334 (Liberal Arts) *Twentieth-Century Europe* 3 hrs. 3 cr. European development from 1914 to 1945. *Preq. ENG 125 and three credits of History.*

HIST335 (Liberal Arts) *Russia from the Middle Ages to 1855* 3 hrs. 3 cr. Russian political, intellectual, and economic development from the Middle Ages to the reign of Tsar Nicholas I. *Preq. ENG 125 and three credits of History. Not offered on a regular basis.*

HIST336 (Liberal Arts) *Russia from 1855 to the Present* 3 hrs. 3 cr. Russian political, intellectual, and economic development from the mid-19th century through the Bolshevik Revolution to the present. *Preq. ENG 125 and three credits of History. Not offered on a regular basis.*

HIST337 (Liberal Arts) *Modern England* 3 hrs. 3 cr. English political, economic, and social development from the Tudor period to the Second World War. *Preq. ENG 125 and three credits of History. Not offered on a regular basis.*

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HIST338 (Liberal Arts) *Modern France* 3 hrs. 3 cr. French political, economic, and social developments from the 18th century to the Fifth Republic. *Preq. ENG 125 and three credits of History. Not offered on a regular basis.*

HIST339 (Liberal Arts) *Modern Germany: 1648-1945* 3 hrs. 3 cr. Political, social, economic and cultural experiences of the German states to the establishment of the Federal Republic. *Preq. ENG 125 and three credits of History. Not offered on a regular basis. Availability to be determined by the department.*

HIST340 (Liberal Arts) *The Holocaust: The Jewish Experience Under Nazism* 3 hrs. 3 cr. European Jewry under Nazi rule from 1933 to 1945; its literary and artistic aspects. Film presentations and guest lectures. *Preq. ENG 125 and three credits of History. Not offered on a regular basis.*

HIST344 (Liberal Arts) *Contemporary Europe* 3 hrs. 3 cr. Analysis of political, economic, diplomatic, and social developments in Europe from 1945 to the present. *Preq. ENG 125 and three credits of History. Not offered on a regular basis.*

HIST353 (Liberal Arts) *Modern China* 3 hrs. 3 cr. Chinas internal developments and foreign contacts from the late 18th century to the present. *Preq. ENG 125 and three credits of History. Not offered on a regular basis.*

HIST354 (Liberal Arts) *Modern Japan* 3 hrs. 3 cr. Major political, military, economic, social, and intellectual developments in Japan from the late 18th century to the present. *Preq. ENG 125 and three credits of History. Offered alternate years.*

HIST359 (Liberal Arts) *Contemporary China and Japan* 3 hrs. 3 cr. Analysis and discussion of major political, economic, diplomatic, social, and cultural developments in China and Japan from 1945 to the present technologies. *Preq. ENG 125 and three credits of History. Not offered on a regular basis.*

HIST367 (Liberal Arts) *Colonial Latin America* 3 hrs. 3 cr. Political and social development of Latin America; emphasis on the interplay of ethnic factors from the 16th century to independence. *Preq. ENG 125 and three credits of History.*

HIST368 (Liberal Arts) *Latin America since 1825* 3 hrs. 3 cr. Political and social development of Latin America from the attainment of independence to the present: emphasis on cultural and economic factors. *Preq. ENG 125 and three credits of History.*

HIST373 (Liberal Arts) *The History of Technology* 3 hrs. 3 cr. 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. *Preq. ENG 125 and three credits of History. Not offered on a regular basis.*

HIST374 (Liberal Arts) *Africa and the Atlantic Slave Trade* 3 hrs. 3 cr. A study of the political, economic, social and demographic challenges confronting Africa during the era of the Atlantic slave trade (15th –19th centuries). *Preq. ENG 125 and 3 credits of History.*

HIST375 (Liberal Arts) *Decolonization in West Africa* 3 hrs. 3 cr. A study of the revolutionary movements which resulted in the achievement of independence by the West African colonies, from 1940 to 1960. *Preq. ENG 125 and 3 credits of History.*

HIST376 (Liberal Arts) *West Africa since Independence* 3 hrs. 3 cr. An analysis of the progress and problems of West Africa since independence (1960 to the present). *Preq. ENG 125 and 3 credits of History.*

HIST400 Seminar in History 3 hrs. 3 cr. 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. *Preq. At least three credits of History at 200 level or higher and Junior status. WRIT 301. Not offered on a regular basis.*

HIST401 (Liberal Arts) Seminar in History 3 hrs. 3 cr. 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. *Preq. At least three credits of History at 200 level or higher and Junior status. WRIT 301. Not offered on a regular basis.*

HIST402 (Liberal Arts) Seminar in History 3 hrs. 3 cr. 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. *Preq. At least three credits of History at 200 level or higher and Junior status. WRIT 301. Not offered on a regular basis.*

HIST403 (Liberal Arts) Seminar in History 3 hrs. 3 cr. 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. *Preq. At least three credits of History at 200 level or higher and Junior status. WRIT 301. Not offered on a regular basis.*

HIST420 (Liberal Arts) Internship in History 3 hrs. 3 cr. Supervised activities, 8-10 hours per week, at historic sites, museums, societies, libraries, and/or government agencies. Students may help in the development of educational programs, conduct tours, assist with archival projects, and participate in a range of similar professional activities under supervision at their assigned site. Students will also meet twice monthly with York College History faculty to review and discuss their internship activities. *Preq. 6 Credits in History, with at least 3 credits at the 200 level or above, and Department Permission*

HIST490 (Liberal Arts) Senior Research in History 3 hrs. 3 cr. Intensive, individually guided advanced research. *Preq. At least three credits of History at 200 level or higher, Senior status and WRIT 301. Not offered on a regular basis.*

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Environmental Health Science

HPEH110 (Liberal Arts) *Science Technology and Environment* 3 hrs. 3 cr. 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 (Liberal Arts) *Environmental Management* 4 hrs. 3 cr. 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. *Preq.*

HPEH340 *Pollution Control Technology* 3 hrs. 3 cr. 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. *Preq. PHYS 105 and PHYS 103, HPGC 211, HPGC 212.*

HPEH343 *Environmental Physiology* 3 hrs. 3 cr. 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. *Preq. HPGC 211, HPGC 212.*

HPEH351 *Fundamentals of Air Pollution* 3 hrs. 3 cr. 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. *Co-req. Coreq. CHEM 230 or CHEM 231. Not credited toward fulfillment of CHEM 251.*

HPEH420 *Water Quality Analysis and Management* 6 hrs. 4 cr. 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. *Preq. HPEH 340, CHEM 241. 2 hours lecture, 4 laboratory hours. Offered Fall semesters.*

HPEH424 *Food Sanitation* 3 hrs. 3 cr. The sanitation of food production, processing and distribution; physical, chemical and biological aspects of sanitation; food packaging control, food additives, adulteration and misbranding. *Preq. HPGC 211, BIO 465, CHEM 230.*

HPEH425 *Disease Vector Control* 6 hrs. 4 cr. 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. *Preq. HPGC 211, HPGC 212. 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 hrs. 3 cr. 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. *Preq. HPGC 211, HPGC 212, CHEM 230. Field trips stress the practical application of classroom lectures.*

HPEH427 *Industrial Hygiene* 3 hrs. 3 cr. 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. *Preq. HPGC 211, HPGC 212, CHEM 237.*

HPEH428 *Water Pollution Biology* 3 hrs. 3 cr. 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. *Preq. HPEH340.*

HPEH429 *Environmental Management* 3 hrs. 3 cr. 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. *Preq. HPGC211, HPGC 212, Senior status.*

HPEH430 *Field Study in Environmental Health Science* 40 hrs. 6 cr. 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. *Preq. Senior status, HPEH 340 and permission of Coordinator of Environmental Health Science.*

HPEH498 *Independent Study* 6 hrs. 3 cr. Individually guided study of an advanced topic in Environmental Health Science. A formal report on topic is required. *Preq. Permission of Instructor prior to registration. 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.*

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HPEH499 *Independent Study* 6 hrs. 3 cr. Individually guided study of an advanced topic in Environmental Health Science. A formal report on topic is required. *Preq. Permission of Instructor prior to registration. 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.*

Health Professions General Core

HPGC101 (Liberal Arts) *Basic Concepts of Health Professions* 2 hrs. 2 cr. 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 (Liberal Arts) *Public Health* 3 hrs. 3 cr. 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. *Preq. HPGC 101 or Sophomore status in Health Education or Health Sciences. Field trips may be required.*

HPGC201 (Liberal Arts) *Principles of Epidemiology* 3 hrs. 3 cr. 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. *Preq. HPGC 102 or BIO 201 or Sophomore status in Health Education or Health Sciences. 3 hrs Lecture, 2 hrs Lab*

HPGC211 *Principles of Environmental Health Sciences* 2 hrs. 2 cr. 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, radiological health principles, housing, food and milk sanitation. *Preq. HPGC 101, CHEM 102, MATH 121, BIO 202; or permission of instructor. 1 hr lecture, 6 Field Experience Hours. This course is Writing Intensive*

HPGC212 *Principles of Environmental Health Sciences in Laboratory* 4 hrs. 2 cr. 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. *Preq. HPGC 101, CHEM 102, MATH 121, BIO 202, or permission of instructor. 4 hours laboratory. Field trips may be required*

Health Professions Health Sciences

HPHS105 *Medical Terminology* 2 hrs. 2 cr. This course is designed to teach the basics of word-building and to teach the terminology commonly used to describe the physiology and pathology of the body. This class will increase the student's ability to access a broad range of medical literature and to communicate with health care professionals. *Preq: HPGC 101*

HPHS201 *Health Informatics* 5 hrs. 4 cr. This course is an introduction to the field of health informatics. Rapid accessibility to information systems and tools is increasingly essential to the delivery of all aspects of medical care. This course explores the current issues, capabilities and limitations of health information technology. This course prepares students for careers in health care information systems, processing and managing health care data with computer and communication technologies. Emphasis is placed on health care information systems' architecture, computerized medical data processing and clinical decision support systems. *Preq: HPGC 101, AC101, AC 201*

HPHS211 *Marketing in Health Care* 3 hrs. 3 cr. This course is designed to provide students with an understanding of the key principles underlying strategic marketing and how these principles are applied in the health care industry. The course will expose students to marketing fundamentals and demonstrate how an application of these fundamental principles should be applied to the overall strategic plan of a health care organization. *Preq: HPGC 101*

HPHS302 *Health Policy* 3 hrs. 3 cr. This course will provide a broad introduction to the fundamentals of the U.S. health care system including its history, organization, and economic aspects. The course will also examine health care systems in other countries and explore the current socio-political landscape of health reform in the U.S. In sum, the course will provide a health policy framework for evaluating the health care delivery in the U.S. *Preq: HPGC 101*

HPHS401 *Field-Based Experience in Health Sciences* hrs. 4 cr. This course emphasizes health science field experience concurrent with didactic lecture. This is an applied experience that integrates the principles, theories, and concepts of health science with problems or issues existing in the health field. Track-specific fieldwork experience will take place in an approved public or private agency, health care or college/university settings. This course is a writing-intensive course. *Preq: Permission of Instructor*

Medical Technology

HPMT252 *Introduction Hematology/Phlebotomy* 4 hrs. 3 cr. In the hematology section of the course formed elements of the peripheral blood and bone marrow, their precursors, function, and structure, including laboratory manual exercises will be presented and discussed. In the phlebotomy section the students will be introduced to the art of venipuncture as well as capillary puncture. They will be instructed in the use of venipuncture equipment and review different additives most often used when performing venipuncture procedures. *Preq. BIO 202 2 hrs lect 2 hrs lab*

HPMT330 *Human Anatomy and Physiology for Medical Technologists* 4 hrs. 3 cr. 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. *Preq. BIO 202, CHEM 230/CHEM 235 or CHEM 231/CHEM 232. 2 hours lecture, 2 hours laboratory.*

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HPMT332 Tissue Techniques 4 hrs. 2 cr. Discussion of the chemical rationale of staining procedures; preparation of slides through sectioning and staining. *Req. BIO 202, CHEM 230/CHEM 235 or CHEM 231/CHEM 232. 4 hours laboratory.*

HPMT341 Clinical Immuno-Serology Techniques 2 hrs. 1 cr. 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. *Req. BIO 466, CHEM 230/CHEM 235 or CHEM 231/CHEM 232. 2 hours laboratory.*

HPMT343 Immuno-Hematology and Blood Banking 4 hrs. 3 cr. 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. *Req. BIO 466, CHEM 230/CHEM 235 or CHEM 231/CHEM 232. 2 hours lecture, 2 hours laboratory.*

HPMT351 Clinical Chemistry 5 hrs. 4 cr. 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. *Req. BIO 202, CHEM 230/CHEM 235 or CHEM 231/CHEM 232. 3 lecture hours, 2 laboratory hours.*

HPMT352 Hematology/Body Fluids 4 hrs. 3 cr. 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. *Req. CHEM 230, HPMT 252. 2 hours lecture, 2 hours laboratory.*

HPMT353 Medical Parasitology 4 hrs. 3 cr. 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. *Req. BIO 202, CHEM 230/CHEM 235 or CHEM 231/CHEM 232. 2 hours lecture, 2 hours laboratory.*

HPMT354 Coagulation 3 hrs. 3 cr. The mechanisms of Coagulation/Hemostasis will be introduced and discussed. Evaluation of normal and disease states in blood coagulation will be discussed after the presentation of clinical cases. The coagulation cascade theory, fibrinolytic system, and anticoagulant therapies will be presented. *Req. BIO 202, CHEM 230/CHEM 235 or CHEM 231/CHEM 232.*

HPMT356 Microbiology & Immunology 2 hrs. 2 cr. 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. *Req. All prerequisites required for admission into the PA Program and official acceptance into the program.*

HPMT357 Clinical Microbiology 5 hrs. 4 cr. The Clinical Microbiology Course will discuss and describe significant microorganisms that may be pathogenic to humans. Methods for culturing and identification will be analyzed. Susceptibility testing patterns will also be discussed and interpretation of zone of inhibition sizes will be compared using Clinical and Laboratory Standard Institute (CLSI) guidelines for antimicrobial susceptibility reporting. *Req. BIO 265 3 hours lect, 2 hours laboratory*

HPMT358 Diagnostic Techniques in Molecular Pathology 3 hrs. 3 cr. Molecular Diagnostics is the application of methods in biotechnology to the diagnosis of disease. Biotechnology involves techniques used in molecular biology as applied to the study of cell function at the DNA/RNA level. This course surveys some of the standard techniques used in biotechnology such as Cell culture, Polymerase Chain Reaction (PCR), Reverse Transcriptase-PCR (RT-PCR), and Immunohistochemistry. Principles of Flow Cytometry and formal lectures are followed by experimental methodologies. Most of these techniques discussed represent transferable technologies that may be used in various fields such as Forensic Pathology, Clinical Laboratory Medicine, and Cancer screening. *Req. BIO 265 3 hours lecture*

HPMT360 Principles of Clinical Toxicology 2 hrs. 2 cr. The course is intended to acquaint the student with the chemical composition, mechanism of action, and detection of and antidotes for toxic substances and medicinals as encountered in the clinical laboratory. Emphasis will be on the broad aspects of industrial and environmental toxicology related to testing facilities, regulatory processes and toxicity testing protocols. *Req. BIO 202, CHEM 230/CHEM 235 or CHEM 231/CHEM 232.*

HPMT361 Urinalysis and Body Fluids 3 hrs. 3 cr. This course has been designed to have students understand the composition of body fluids such as urine, cerebrospinal fluid, amniotic fluid, pleural fluid, semen, and synovial fluid. Students will learn to handle and analyze urine and non-blood body fluids while keeping the laboratory safe from infectious agents. *Req. BIO 265*

HPMT459 Clinical Internship in Medical Technology I hrs. 5 cr. Full-time clinical internship. *Req. 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 Director. 40 hours /week 1 full semester*

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HPMT460 Clinical Internship in Medical Technology II 2 hrs. 5 cr. Full-time clinical internship. *Preq.* HPMT 459 and permission of the Medical Technology Director. 40 hours / week 1 full semester

HPMT498 Independent Study in Medical Technology 3 hrs. 3 cr. Investigation of a special project under the guidance of a faculty member. *Preq.* Senior status and permission of instructor.

HPMT499 Advanced Practicum in Medical Technology 3 hrs. 3 cr. Independent investigation of a special project within the clinical laboratory area practical and/or theoretical. *Preq.* Senior status and permission of instructor.

Physician's Assistant

HSPA301 Pharmacology I 3 hrs. 2 cr. First of a two-course sequence; the study of pharmacology principles as they apply to the practice of medicine. *Preq.* Permission of physician assistant faculty.

HSPA302 Pharmacology II 3 hrs. 2 cr. Further exploration of pharmacological principals as they apply to future prescriptive practice as a physician assistant. *Preq.* Permission of physician assistant faculty.

HSPA304 Interviewing and Counseling 1 hrs. 1 cr. Analysis of health professional-patient interactions. Psychosocial factors impacting physical and emotional health. *Preq.* Permission of physician assistant faculty.

HSPA305 Physician Assistant Profession 2 hrs. 1 cr. Introduction to the role of PA, with an emphasis on the history, training, practice characteristics and certification process. *Preq.* Permission of physician assistant faculty.

HSPA313 Clinical Skills 3 hrs. 1 cr. Practical sessions introducing basic skills necessary for clinical practice as a physician assistant. Includes instruction in electrocardiography, suturing and casting/splinting. *Preq.* Permission of physician assistant faculty.

HSPA324 Diagnostic Studies 3 hrs. 2 cr. The indications, limitations and procedures of medical laboratory, radiology laboratory, and other diagnostics 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. *Preq.* All prerequisites required for admission into the PA program and official acceptance into the program. 2 hours lecture, 1 hour lab.

HSPA337 Clinical Anatomy 5 hrs. 3 cr. 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. *Preq.* All prerequisites required for admission into the PA program and official acceptance into the program. 2 hours lecture, 3 hours lab.

HSPA356 Microbiology 2 hrs. 1 cr. Pathogenic bacteria, fungi, protozoa, viruses, rikettsiae and helminthes are considered with regard to human disease manifestations, host-parasite relationships, antimicrobial agents, other treatments and control. *Preq.* Permission of physician assistant faculty.

HSPA357 Pathology 3 hrs. 3 cr. Introduction to the study of human pathophysiology as the foundation of clinical medicine. *Preq.* Permission of physician assistant faculty.

HSPA401 Physical Diagnosis I 5 hrs. 3 cr. First of a two-course sequence; instruction in eliciting a complete medical history and performing a physical examination. *Preq.* Permission of physician assistant faculty. 2 hours lecture, 3 hours laboratory.

HSPA402 Physical Diagnosis II 5 hrs. 3 cr. Further exploration of the strategies and skills of medical history taking and physical examination. *Preq.* Permission of physician assistant faculty. 2 hours lecture, 3 hours laboratory.

HSPA408 Psychosocial Dynamics 1.5 hrs. 1 cr. 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. *Preq.* Permission of physician assistant faculty.

HSPA410 Internal Medicine I 6 hrs. 2 cr. 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. *Preq.* Permission of physician assistant faculty.

HSPA412 Internal Medicine II 6 hrs. 2 cr. Second of a two-course sequence designed to familiarize the student with various internal medicine problems. *Preq.* Permission of physician assistant faculty.

HSPA425 Clinical Correlations 2.5 hrs. 1 cr. 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. *Preq.* Permission of physician assistant faculty.

HSPA428 Primary Care I 3 hrs. 2 cr. First in a two-course sequence. Primary care medicine, with an emphasis on urban health care. Includes health promotion/disease prevention, geriatric medicine and occupational medicine. Utilizes case studies. *Preq.* HSPA 337 and HSPA 357. 2 hours lecture, 1 hour recitation.

HSPA430 Primary Care II 4 hrs. 1 cr. Second in a two-course sequence. Foundations of pediatrics and obstetrics/gynecology with emphasis on Physician Assistant clinical practice in an urban setting. *Preq.* Permission of physician assistant faculty.

HSPA435 Emergency Medicine 3 hrs. 1 cr. Fundamentals of care for clinical problems seen in the emergency setting. Emphasizes problems commonly seen in an urban emergency room. *Preq.* Permission of physician assistant faculty.

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HSPA449 Surgery 4 hrs. 2 cr. Fundamentals of care for clinical problems seen in the emergency setting. Emphasizes problems commonly seen in an urban emergency room. Students will be able to identify potentially life threatening conditions and initiate care. Students will also be certified in Cardiopulmonary resuscitation. *Preq. HSPA 401. 2 hour lectures, 2 hours recitation.*

HSPA450 Surgical Clinical Rotation 40 hrs. 1 cr. This five-week rotation takes place in an inpatient hospital setting and also includes outpatient surgical clinic duties. *Preq. Permission of physician assistant faculty.*

HSPA451 Internal Medicine Clinical Rotation 40 hrs. 1 cr. This five-week rotation takes place in a hospital setting. *Preq. Permission of physician assistant faculty.*

HSPA452 Pediatrics Clinical Rotation 40 hrs. 1 cr. This five-week rotation takes place in a hospital (including outpatient clinic), clinic and/or private office setting. *Preq. Permission of physician assistant faculty.*

HSPA453 Emergency Medicine Rotation 40 hrs. 1 cr. This five-week rotation takes place in the hospital emergency department. *Preq. Permission of physician assistant faculty.*

HSPA454 Long Term Care Rotation 40 hrs. 1 cr. This five-week rotation takes place in nursing homes, specialized geriatric facilities, and chronic care facilities. *Preq. Permission of physician assistant faculty.*

HSPA455 Psychiatry Rotation 40 hrs. 1 cr. This five-week rotation takes place in a psychiatric hospital, hospital psychiatric department or clinic setting. *Preq. Permission of physician assistant faculty.*

HSPA457 Obstetrics and Gynecology Clinical Rotation 40 hrs. 1 cr. This five-week rotation takes place in a hospital (including outpatient clinic), clinic and/or private office setting. *Preq. Permission of physician assistant faculty.*

HSPA458 Family Medicine Clinical Rotation 5 hrs. 1 cr. This clinical clerkship 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. *Preq. Department permission required. 5-week full-time Clinical Clerkship.*

HSPA459 Ambulatory Care Clinical Rotation 5 hrs. 1 cr. This clinical clerkship 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. *Preq. HSPA 428 and Department permission required. 5-week full-time Clinical Clerkship.*

Humanities

HUM101 (Liberal Arts) American Tradition of Social Change 3 hrs. 3 cr. 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 (Liberal Arts) Introduction to Linguistics 3 hrs. 3 cr. Practical introduction to general and historical linguistics. *Preq. ENG 125.*

HUM203 (Liberal Arts) Tradition and Innovation in the Twentieth Century 6 hrs. 6 cr. Responses of Humanities disciplines to crises of communication and values in the 20th century; interrelationship among history, philosophy, and the arts. *Preq. ENG 125. Not offered on a regular basis. Availability to be determined by the department.*

HUM204 (Liberal Arts) Ibsen and Strindberg 3 hrs. 3 cr. A study of the life and works of the Scandinavian writers Henrik Ibsen and August Strindberg. *Preq. ENG 125. Not offered on a regular basis. Availability to be determined by the department.*

HUM205 (Liberal Arts) Gateway to the Modern Age 6 hrs. 6 cr. The flowering of individualism in the 15th and 16th centuries; history, the arts, literature and philosophy interrelated. *Preq. ENG 125 and Sophomore status. 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 (Liberal Arts) Judaism I Aspects and Trends from the Beginning to the Middle Ages 3 hrs. 3 cr. 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. *Preq. ENG 125. Not offered on a regular basis. Availability to be determined by the department.*

HUM207 (Liberal Arts) Judaism II Modern and Contemporary 3 hrs. 3 cr. 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. *Preq. ENG 125. Not offered on a regular basis. Availability to be determined by the department.*

HUM209 (Liberal Arts) Gender and Language 3 hrs. 3 cr. This course will introduce students to a linguistic-anthropological perspective on the relationship between Language and Gender. We will analyze how language emerges from, reproduces, and sometimes challenges gender ideologies and gendered practices in all societies. We will also consider how other aspects of an individual's identity, such as race, ethnicity, class, age, and sexual orientation, articulate with gender in linguistic interactions. *Preq. ENG 125 THIS IS A WRITING INTENSIVE COURSE*

HUM219 (Liberal Arts) Introduction to Second Language Acquisition 3 hrs. 3 cr. This course provides an introduction to second language acquisition. Issues to be examined include: the role of the first language; psychological aspects; sociolinguistic aspects; and such socio-educational aspects as bilingualism, and immersion of second *Preq. ENG 125 and HUM 202*

HUM221 (Liberal Arts) Pictures of Italy: A journey into Modern & Contemporary Literature through Film 3 hrs. 3 cr. A portrait of the recent history of Italy, as well as related aspects of Italian socio-economic development from the 50's to the present, through its own films. Special emphasis will be placed on current and important topics including immigration, cultural diversity, education, and industry. This course is a Writing Intensive Course. *Preq. ENG 125 THIS IS A WRITING INTENSIVE COURSE*

*Courses which are liberal arts for all students are identified as: (Liberal Arts)

** Courses identified NOT Liberal Arts in addition to courses identified with an ✖ CANNOT be used as Liberal Arts by ACCOUNTING MAJORS.

HUM224 (Liberal Arts) *Cinematic Adaptation* 3 hrs. 3 cr. Close reading and analysis of several plays accompanied by the viewing of cinematic adaptations of those plays, both American and foreign. Questions of adaptation in general as well as issues particular to Shakespeare will be considered. This is a Writing Intensive (WI) course. *Preq. ENG 125 THIS IS A WRITING INTENSIVE COURSE*

HUM225 (Liberal Arts) *The Jewish People in the Greco-Roman World: 333 B.C. to 476 A.D.* 3 hrs. 3 cr. 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. *Preq. ENG 125. Not offered on a regular basis. Availability to be determined by the department.*

HUM230 (Liberal Arts) *Fairness Equity* 3 hrs. 3 cr. 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 (Liberal Arts) *The Digital Revolution* 3 hrs. 3 cr. A survey of the analytical ideas underlying the development of such new technologies as fax machines, compact discs, and the World Wide Web. *Preq. MATH 020. Topics will include error-correction codes, data compression, and data security.*

HUM250 (Liberal Arts) *The Italian Experience in the United States* 3 hrs. 3 cr. 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. *Preq. ENG 125. This course will be taught as a Writing Intensive Course; students will draft and revise at least 10 pages during the semester.*

HUM251 (Liberal Arts) *Asian American Experience* 3 hrs. 3 cr. 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. *Preq. ENG 125.*

HUM252 (Liberal Arts) *The Jewish Experience in the United States* 3 hrs. 3 cr. This course will examine the political, social, institutional and religious development of American Jewry from the Colonial period to the present. *Preq. ENG 125.*

HUM253 (Liberal Arts) *The Haitian Experience in the USA* 3 hrs. 3 cr. 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. *Preq. ENG 125.*

HUM257 (Liberal Arts) *The French: People, Language, and Culture* 3 hrs. 3 cr. French "National Character" as seen through customs, culture, and especially language; comparisons to the United States. *Preq. ENG 125. Not offered on a regular basis. Availability to be determined by the department.*

HUM260 (Liberal Arts) *The World of Opera: A Concise History* 3 hrs. 3 cr. A study of the history of opera. Special emphasis will be placed on the contributions of composers from diverse linguistic and cultural backgrounds. *Preq. ENG 125.*

HUM272 (Liberal Arts) *The Latino Experience in the U.S.* 3 hrs. 3 cr. Introduction to the history, literature, ethnicity, culture and socio-economies of Latinos in the U.S. *Preq. ENG 125 and Sophomore status. Not offered on a regular basis. Availability to be determined by the department.*

HUM281 (Liberal Arts) *Introduction to Eastern Religion* 3 hrs. 3 cr. 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. *Preq. ENG 125. Not offered on a regular basis. Availability to be determined by the department.*

HUM282 (Liberal Arts) *Introduction to Western Religion* 3 hrs. 3 cr. 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. *Preq. ENG 125. Not offered on a regular basis. Availability to be determined by the department.*

HUM283 (Liberal Arts) *Mahayana Buddhism* 3 hrs. 3 cr. 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. *Preq. ENG 125. Not offered on a regular basis. Availability to be determined by the department.*

HUM284 (Liberal Arts) *Studies in Twentieth-Century Christian Thought* 3 hrs. 3 cr. 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. *Preq. ENG 125. Not offered on a regular basis. Availability to be determined by the department.*

HUM290 (Liberal Arts) *Special Topics in Humanites* 3 hrs. 3 cr. The study and analysis of a chosen topic from the humanist tradition, examined and presented with an interdisciplinary approach. *Preq. ENG 125. The course may, depending on the topic and instructor, be offered as a Writing Intensive course.*

HUM300 (Liberal Arts) *The Nature of Human Communication* 3 hrs. 3 cr. 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." *Preq. ENG 125 and Junior status. 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.*

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HUM302 (Liberal Arts) Women's Studies I 3 hrs. 3 cr. 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. *Preq. ENG 125 and Sophomore status.*

HUM303 (Liberal Arts) Women's Studies II 3 hrs. 3 cr. 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. *Preq. ENG 125 and Sophomore status.*

HUM304 (Liberal Arts) Gender Dynamics in the Twentieth Century 3 hrs. 3 cr. The nature and significance of changing concepts of gender in modern society as reflected in politics, psychology, literature and popular culture, and theoretical works. This advanced course will explore the role of gender identity in Twentieth Century so *Preq. ENG 125*

HUM310 (Liberal Arts) Prejudice Viewed Existentially 3 hrs. 3 cr. An analysis, from a predominantly existential approach, of the attitudes towards "The Other" in the person of the Jew, the Woman, and the Black. *Preq. ENG 125 and Sophomore status. This course is the same as BHSC 310.*

HUM320 (Liberal Arts) Interdisciplinary Honors Seminar 3 hrs. 3 cr. Selected advanced topics will be explored from an interdisciplinary perspective. Students will read from the original source in each discipline covered in the course and synthesize the material through class discussion, written assignments, and oral presentation *Preq. Membership in the York College Honors Program or permission of the instructor.*

HUM350 (Liberal Arts) Italian Culture and Civilization 3 hrs. 3 cr. Major trends and development in the evolution of Italian society and culture. Besides an outline of a culture historically defined, the course specifically explores the present day. Topics include fine arts, music, cinema, regional folklore and traditions, fashion, and gastronomy. Oral presentations may be required *Preq. ENG 125 . Not offered on a regular basis. Availability to be determined by the department.*

Interdisciplinary Studies

IS400 (Liberal Arts) Senior Seminar 3 hrs. 3 cr. A capstone seminar on the connections between the events of history, the plots of imaginative literature, and the arguments of philosophy, rhetoric, and science. *Preq. WRIT 301, 302 or 303, Senior status and 27 credits completed in Interdisciplinary Studies Major. This is a writing intensive course*

Italian

ITAL101 (Liberal Arts) Elementary Italian I 4 hrs. 4 cr. 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. This course may be offered as an H-WEB course*

ITAL102 (Liberal Arts) Elementary Italian II 4 hrs. 4 cr. Continuation of the beginners' course; integrated reading and further practice in conversation. *Preq. ITAL 101 or ITAL 113, or two years of secondary school Italian, or by placement examination. 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 audiovisual. 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, integrating the use of films, videotapes and*

ITAL104 (Liberal Arts) Rapid Review of Basic Italian 3 hrs. 3 cr. 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. *Preq. ITAL 102. Not offered on a regular basis. Availability to be determined by the department.*

ITAL105 (Liberal Arts) Intermediate Italian I 3 hrs. 3 cr. Intensive oral-aural practice based on selected readings; more complex grammatical structures. *Preq. ITAL 102 or ITAL 114. Not offered on a regular basis. Availability to be determined by the department.*

ITAL106 (Liberal Arts) Intermediate Italian II 3 hrs. 3 cr. Intensive oral-aural practice based on literary texts. *Preq. ITAL 105. Not offered on a regular basis. Availability to be determined by the department.*

ITAL113 (Liberal Arts) Elementary Italian I 3 hrs. 3 cr. 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 (Liberal Arts) Elementary Italian II 3 hrs. 3 cr. Continuation of the beginners' course; more complex grammatical structures; integrated reading and further practice in conversation. *Preq. ITAL 101 or ITAL 113. 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 (Liberal Arts) Commercial Italian I 3 hrs. 3 cr. Specialized language used in the Italian world of commerce; composing and translating business letters, commercial documents, and import-export terminology. *Preq. ITAL 105, native speaker or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.*

ITAL207 (Liberal Arts) Historical Survey of Italian Literature I: From its Origin to Mid-Sixteenth Century 3 hrs. 3 cr. Italian literature from the Sicilian School to the Renaissance. *Preq. ITAL 106 or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.*

ITAL208 (Liberal Arts) Historical Survey of Italian Literature II: From Mid-Sixteenth Century to Mid-Nineteenth Century 3 hrs. 3 cr. Italian literature of the late Renaissance, the Baroque, Neo-Classicism, and Romanticism. *Preq. ITAL 106 or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.*

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ITAL209 (Liberal Arts) *Historical Survey of Italian Literature III: From Mid-Nineteenth Century to the Present* 3 hrs. 3 cr. Italian literature of Realism, Futurism, Surrealism, Neo-Realism, and Existentialism. *Req. ITAL 106 or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.*

ITAL225 (Liberal Arts) *Commercial Italian II* 3 hrs. 3 cr. 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. *Req. ITAL 200 or permission of department. 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 (Liberal Arts) *Intermediate Conversation* 3 hrs. 3 cr. Discussions conducted in Italian; intended to give language fluency with emphasis on the language used in daily conversation. *Req. ITAL 106 or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.*

ITAL232 (Liberal Arts) *Advanced Conversation* 3 hrs. 3 cr. 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. *Req. ITAL 106 or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.*

ITAL233 (Liberal Arts) *Advanced Grammar with Composition* 3 hrs. 3 cr. Composition and thorough review of grammar; written and oral work based on readings of representative modern authors. *Req. ITAL 106 or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.*

ITAL234 (Liberal Arts) *Advanced Composition and Style* 3 hrs. 3 cr. Composition based on readings of representative modern authors; emphasis on syntax and style. *Req. ITAL 233 or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.*

ITAL240 (Liberal Arts) *Translation I* 3 hrs. 3 cr. 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. *Req. ITAL 106 or native speaker or permission of department and completion of Instrumental English requirement. Not offered on a regular basis. Availability to be determined by the department.*

ITAL241 (Liberal Arts) *Translation II* 3 hrs. 3 cr. Continuation of Italian 240; more extensive translation of commercial, journalistic, literary, and scientific texts. *Req. ITAL 240 or native speaker or permission of department. Not offered on a regular basis. Availability to be determined by the department.*

ITAL243 (Liberal Arts) *The Italian Theatre I: From its Origin to the End of the Eighteenth Century* 3 hrs. 3 cr. Representative works from the teatro sacro of the 13th century to Alfier's Tragedies; particular attention given to the commedia dell'arte. *Req. ITAL 106 or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.*

ITAL245 (Liberal Arts) *Italian Renaissance* 3 hrs. 3 cr. The evolution of Renaissance literary genres: the epic, lyric poetry, and drama. *Req. ITAL 106 or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.*

ITAL247 (Liberal Arts) *The Italian Theatre II: Nineteenth and Twentieth-Century Italian Theatre* 3 hrs. 3 cr. From the teatro verista of the 19th century to the plays of Pirandello and other major Italian dramatists. *Req. ITAL 106 or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.*

ITAL248 (Liberal Arts) *Italian Short Story* 3 hrs. 3 cr. 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. *Req. ITAL 106 or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.*

ITAL250 (Liberal Arts) *Nineteenth-Century Italian Novel* 3 hrs. 3 cr. Representative 19th century Italian novels from Foscolo to Verga. *Req. ITAL 106 or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.*

ITAL251 (Liberal Arts) *Twentieth-Century Italian Novel* 3 hrs. 3 cr. Representative 20th century Italian novels from D'Annunzio to Bevilacqua. *Req. ITAL 106 or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.*

ITAL265 (Liberal Arts) *Nineteenth-Century Italian Poetry* 3 hrs. 3 cr. Analysis of representative 19th century Italian poetry. *Req. ITAL 106 or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.*

ITAL266 (Liberal Arts) *Twentieth-Century Italian Poetry* 3 hrs. 3 cr. Analysis of representative 20th century Italian poetry. *Req. ITAL 106 or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.*

ITAL313 (Liberal Arts) *Dante's Divine Comedy I: Inferno* 3 hrs. 3 cr. A close examination of Dante's Inferno with some consideration of Vita Nuova; particular attention to allegory, symbolism, and structure. *Req. ITAL 106 or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.*

ITAL315 (Liberal Arts) *Petrarch and Boccaccio* 3 hrs. 3 cr. The lyric poetry of Petrarch's Canzoniere and the novella from its origin to Boccaccio's Decameron. *Req. ITAL 106 or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.*

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ITAL317 (Liberal Arts) *Dante's Divine Comedy II: Purgatorio* 3 hrs. 3 cr. 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. *Preq. ITAL 106 or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.*

ITAL318 (Liberal Arts) *Dante's Divine Comedy III: Paradiso* 3 hrs. 3 cr. 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. *Preq. ITAL 106 or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.*

ITAL319 (Liberal Arts) *Pirandello* 3 hrs. 3 cr. Pirandello's philosophical ideas as seen through his principal novels and dramas. *Preq. ITAL 106. Not offered on a regular basis. Availability to be determined by the department.*

ITAL353 (Liberal Arts) *Italian Culture and Civilization* 3 hrs. 3 cr. 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 (Liberal Arts) *A Major Italian Author in Translation* 3 hrs. 3 cr. A major Italian author such as Pirandello, Boccaccio, or Machiavelli. *Preq. Author announced each semester. Can be repeated for credit. Not offered on a regular basis. Availability to be determined by the department.*

ITAL400 (Liberal Arts) *Individual Study* 0 hrs. 3 cr. Independent, guided research under the supervision of the Italian faculty. *Preq. Permission of instructor. Hours arranged. Not offered on a regular basis. Availability to be determined by the department.*

ITAL405 (Liberal Arts) *Seminar in Italian Literature* 3 hrs. 3 cr. Intensive examination of a special phase of Italian literature; especially designed to give students experience in scholarly research. *Preq. ITAL 106. Not offered on a regular basis. Availability to be determined by the department.*

Journalism

JOUR280 (Liberal Arts) *Introduction to Journalism* 3 hrs. 3 cr. Introduction to the basics of hard newswriting and reporting; writing balanced, high-impact news pieces. The fundamentals of newspaper editing and production. *Preq. ENG 125. This is a Writing Intensive course.*

JOUR281 (Liberal Arts) *Introduction to Feature Writing* 3 hrs. 3 cr. 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. *Preq. ENG 125. This is a Writing Intensive course.*

JOUR282 (Liberal Arts) *Introduction to Writing Broadcast News* 3 hrs. 3 cr. Introduction to broadcast journalism and the basics of writing television and radio news. The course explores the differences between writing for broadcast versus print, and considers also the changing role of the broadcast news writer in a converging media environment. Students work on-site in the Television Studio. *Preq. ENG 125. Students work on-site in the Television Studio.*

JOUR285 (Liberal Arts) *Basics of Online Journalism* 3 hrs. 3 cr. Introduction to the fundamentals of practicing Journalism online in an environment that encourages a multimedia presentation of content. *Preq. ENG 125. This is a writing intensive course.*

JOUR321 (Liberal Arts) *Editorial Writing, Commentary, and Criticism* 3 hrs. 3 cr. Introduction to the practices, standards, and skills involved in producing professional-level opinion writing for newspapers, magazines, online, and broadcast. Students learn techniques for writing a wide range of opinion pieces and consider related ethical issues. *Preq. JOUR 280 or JOUR 281 or ENG 280 or ENG 281.*

JOUR322 (Liberal Arts) *Advanced Feature Writing* 3 hrs. 3 cr. Building on Journalism 281, this course explores the advanced skills and techniques needed to produce in-depth features for magazines and newspapers: From finding original concepts and angles to effective reporting, crafting of the story, and editing. Students read and analyze the work of successful writers and produce two mid-length features and a longer narrative. *Preq. JOUR 281 or ENG 281.*

JOUR380 (Liberal Arts) *Basics of Online Journalism* 3 hrs. 3 cr. Introduction to the fundamentals of practicing journalism online in an environment that encourages a multimedia presentation of content. Students learn to report and tell stories online by combining the elements of printed text, photos, graphics, audio, video, and interactivity; and to evaluate and make use of a wide range of online resources. *Preq. ENG 125. This is a Writing Intensive course.*

JOUR381 (Liberal Arts) *Investigative and In-Depth Reporting* 3 hrs. 3 cr. Advanced reporting, research, and news writing methods that lead to revealing, authoritative investigative pieces; working from secondary print and online sources, accessing primary documents, establishing contacts with human sources, and making use of computer-assisted reporting. The course also explores investigative interviewing techniques and associated ethical and legal issues. *Preq. JOUR 280 or ENG 280.*

JOUR382 (Liberal Arts) *Nonfiction Book Writing* 3 hrs. 3 cr. Conceptualizing, researching, organizing and writing a professional-level nonfiction book proposal. Techniques for writing non-fiction books and negotiating a book contract. *Preq. JOUR 280 or JOUR 281 or ENG 280 or ENG 281 or ENG 286.*

JOUR383 (Liberal Arts) *Beat Reporting and Community News Coverage* 3 hrs. 3 cr. Introduction to the skills and journalistic concerns associated with working as a beat reporter covering local news. Routines and practices involved in covering a number of regular community beats, strategies for doing specialty reporting, and hands-on reporting experience covering a beat for a local newspaper or student publication. *Preq. JOUR 280 or ENG 280 or JOUR 281 or ENG 281.*

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JOUR384 (Liberal Arts) Journalism Literature 3 hrs. 3 cr. Examination of the reporting, writing, and storytelling techniques that gave rise to a tradition of journalism literature in America, from the advent of the New Journalism in the 1960s and 1970s (Capote, Wolfe) to the more recent experimental, rigorously reported, socially focused works that have been dubbed the New New Journalism. Students learn to recognize and use in their own writing the research, reporting, organization, and literary devices employed in these long-form journalistic works. *Req. JOUR 281 or ENG 281 or JOUR 280 or ENG 280.*

JOUR385 (Liberal Arts) Essentials of Editing 3 hrs. 3 cr. Introduction to the basics of professional editing for print and online journals while using current editing tools. Students learn the skills of assignment editor, copy editor, and production editor; they serve alternately as editors and reporters for article submissions (complete with photos and graphics) to the college student newspaper or another publication. *Req. JOUR 280 or JOUR 281 or ENG 280 or ENG 281. This is a Writing Intensive course.*

JOUR387 (Liberal Arts) Journalism Ethics and Legal Issues 3 hrs. 3 cr. Introduction to fundamental issues, practices, and rules applied to Journalism ethics and legal questions. Students explore the ethical standards that journalists are expected to follow and grapple with the ethical dilemmas that arise on a regular basis. The class also examines legal protections and rights afforded journalists, the legal limitations placed on their activities, and legal considerations involved in pursuing a career in journalism. *Req. JOUR 280 or JOUR 281 or ENG 280 or ENG 281.*

JOUR388 (Liberal Arts) Digital Photojournalism 3 hrs. 3 cr. Introduction to the principles and theories of photojournalism in a filmless environment. Using SLR digital cameras, students take photographs that are suitable for publication in newspapers, magazines, and/or online; develop story ideas; cover events; and edit their own photographs using computer software. *Req. JOUR 280 or ENG 280 and FA 381.*

JOUR389 (Liberal Arts) Advanced Reporting and Writing for Broadcast News 3 hrs. 3 cr. Building on Journalism 282, a hands-on approach to more sophisticated reporting and interviewing techniques and writing formats used in radio and television broadcast news. Teams write packages to be edited and aired in the Television Studio. *Req. JOUR 282 or ENG 282.*

JOUR399 (Liberal Arts) Special Topics in Journalism 3 hrs. 3 cr. A selected topic in Journalism. *Req. JOUR 280 or JOUR 281 or JOUR 282 or ENG 280 or ENG 281. The topic varies with each offering.*

JOUR481 Broadcast Journalism Fieldwork 105 hrs. 3 cr. Students work for a professional broadcasting company reporting, writing newscrips or videoscrips, or acquiring research and production skills. *Req. Senior status and completion of 21 credits in the major. 2 hours lecture plus a minimum of 105 hours of work experience per semester.*

JOUR483 Newswriting and Reporting Fieldwork 2 hrs. 3 cr. Students work for a professional newspaper, magazine or journal for bylines, or experience and college credit. *Req. Senior status and completion of 21 credits in the major. 2 hours lecture plus a minimum of 105 hours of work experience per semester.*

JOUR486 Publishing Fieldwork 2 hrs. 3 cr. Students work for a publishing company, magazine or journal, writing articles, reporting, or acquiring research and editing skills. *Req. Senior status and completion of 21 credits in the major. 2 hours lecture plus a minimum of 105 hours of work experience per semester.*

Mathematics Education

MAED572 Advanced Methods in High School Math Instruction 7 hrs. 4 cr. 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. *Req. Acceptance in Project Leadership. 2 hours lecture, 5 hours laboratory. Not offered on a regular basis. Availability to be determined by the department.*

MAED573 Field Activities in Math Education 6 hrs. 2 cr. 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. *Req. MATH 572. 6 hours field work. Not offered on a regular basis. Availability to be determined by the department.*

Mathematics

MATH102 (Liberal Arts) Intermediate Algebra 3 hrs. 1 cr. 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. *Req. MATH 011 or by placement.*

MATH104 (Liberal Arts) College Algebra 4 hrs. 3 cr. Basic concepts of sets, algebra, graphs and functions; linear, rational, exponential, and logarithmic functions and their applications. *Req. Placement via the CUNY math placement exam or by the department*

MATH111 (Liberal Arts) Introduction to Statistics and Probability 4 hrs. 4 cr. Elements of statistics, graphs, frequency distributions, measures of central tendency and measures of dispersion; elementary probability theory, counting, binomial and normal distributions. *Req. MATH 102, the equivalent, or placement exam.*

MATH115 (Liberal Arts) Quantitative Methods for Decision Making 4 hrs. 4 cr. Functions, systems of linear equations, matrices, elementary linear programming; elementary calculus; mathematics of finance; and related topics. *Req. MATH 102, the equivalent, or placement examination.*

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MATH119 (Liberal Arts) *Computer Algebra System 1 hrs. 1 cr.* 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. *Preq. MATH 102*

MATH120 (Liberal Arts) *Pre-Calculus 4 hrs. 4 cr.* Advanced topics in algebra, functions and graphs, inverse functions, composite functions, polynomial and rational functions, trigonometry, exponential and logarithmic functions. *Preq. MATH 102.*

MATH121 (Liberal Arts) *Analytic Geometry and Calculus I 4 hrs. 4 cr.* 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. *Preq. MATH 119 and MATH 120.*

MATH122 (Liberal Arts) *Analytic Geometry and Calculus II 4 hrs. 4 cr.* Derivatives and integrals of transcendental functions, applications of integration, methods of integration, L'Hopital's rule, improper integrals, infinite series, conic sections. *Preq. MATH 121 or MATH 184.*

MATH141 (Liberal Arts) *Discrete Mathematics 3 hrs. 3 cr.* 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. *Preq. MATH 115 or MATH 121, or equivalent.*

MATH150 (Liberal Arts) *Mathematics and its Applications 4 hrs. 4 cr.* Survey course for liberal art students that emphasizes recent mathematics and its applications, especially mathematics which supports the development of new technologies. *Preq. Passing CUNY Math Skills Test. Topics will be selected from geometry, algebra, discrete mathematics, etc.*

MATH184 (Liberal Arts) *Analytic Geometry and Calculus I 5 hrs. 4 cr.* Same content as Mathematics 121, supplemented with selected pre-calculus material. *Preq. MATH 101 or by placement Not offered on a regular basis. Availability to be determined by the department.*

MATH190 (Liberal Arts) *Computers in Modern Society 4 hrs. 4 cr.* 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. *Preq. MATH 102, the equivalent, or placement exam. Students are expected to complete several laboratory assignments.*

MATH210 (Liberal Arts) *Probability and Statistics I 4 hrs. 4 cr.* Elementary data analysis, simple regression, correlation, basic probability theory: combinatorial problems, random variables, distributions, expectation; law of large numbers, central limit theorem, applications. *Preq. MATH 122.*

MATH211 (Liberal Arts) *Probability and Statistics II 4 hrs. 4 cr.* Fundamental concepts of statistics, multivariate distributions, sampling theory, estimation theory, hypothesis testing, goodness-of-fit, linear regression. *Preq. MATH 210 and MATH 221.*

MATH221 (Liberal Arts) *Analytic Geometry and Calculus III 4 hrs. 4 cr.* 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. *Preq. MATH 122.*

MATH223 (Liberal Arts) *Differential Equations 4 hrs. 4 cr.* The solution of ordinary differential equations, including linear equations of first and higher order; introduction to partial differential equations. *Preq. MATH 221.*

MATH225 (Liberal Arts) *Discrete Mathematical Structures 4 hrs. 4 cr.* 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. *Preq. MATH 115, or MATH 121, or MATH 184. 4 hours lecture.*

MATH230 (Liberal Arts) *Theory of Numbers 4 hrs. 4 cr.* Properties of integers, divisibility; prime numbers, congruences, and diophantine equations. Selected topics. Applications of number theory to public key and key exchange cryptological systems. *Preq. MATH 122.*

MATH243 (Liberal Arts) *Combinatorial Geometry 4 hrs. 4 cr.* 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. *Preq. MATH 122.*

MATH244 (Liberal Arts) *Geometric Structures 4 hrs. 4 cr.* Axiom systems; Euclidean geometry; survey of various non-Euclidean geometries. Other selected topics. *Preq. MATH 122. Other selected topics.*

MATH271 (Liberal Arts) *Mathematics for Elementary School Teachers 4 hrs. 4 cr.* Mathematical reasoning, problem-solving, elementary theory, structures and concepts of arithmetic, numeration systems, integers, rational and real numbers, number theory, elementary probability and statistics. *Preq. MATH 101, MATH 102 or pass CUNY Math Skills Test.*

MATH272 (Liberal Arts) *Geometry and Measurement 2 hrs. 2 cr.* 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. *Preq. MATH 101, MATH 102 or pass CUNY Math Skills Test. Prospective teachers should take this course in conjunction with MATH 271, although MATH 271 is not a prerequisite.*

MATH300 (Liberal Arts) *Guided Study of Selected Topics in Mathematics 0 hrs. 1 cr.* Individual study under supervision of mathematics faculty. *Preq. Junior status, and permission of department Hours arranged.*

MATH301 (Liberal Arts) *Guided Study of Selected Topics in Mathematics 0 hrs. 1 cr.* Individual study under supervision of mathematics faculty. *Preq. Junior status, and permission of department. Hours arranged.*

*Courses which are liberal arts for all students are identified as: (Liberal Arts)

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MATH302 (Liberal Arts) *Actuarial Mathematics I* 1 hrs. 1 cr. Special applications of Calculus and Linear Algebra in Actuarial Science. *Preq. MATH 221 and MATH 333. This course will prepare students to take Actuarial Examination Part I.*

MATH303 (Liberal Arts) *Actuarial Mathematics II* 1 hrs. 1 cr. Special applications of probability theory and statistics in Actuarial Examination Part II. *Preq. MATH 210 and MATH 211 Availability to be determined.*

MATH311 (Liberal Arts) *Mathematical Methods for Physical Science* 4 hrs. 4 cr. 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. *Preq. MATH 222. Other selected topics.*

MATH313 (Liberal Arts) *Operations Research* 4 hrs. 4 cr. Linear programming, game theory, decision theory, queuing theory, systems dynamics, network theory. *Preq. MATH 122. Other related topics in Management and Social Sciences.*

MATH321 (Liberal Arts) *Finite Differences and Difference Equations* 4 hrs. 4 cr. Fundamental concepts of finite differences; interpolation formulae; linear and nonlinear difference equations; theory of interest and annuities. Related topics. *Preq. MATH 221 or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.*

MATH333 (Liberal Arts) *Linear Algebra* 4 hrs. 4 cr. 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. *Preq. MATH 122.*

MATH335 (Liberal Arts) *Mathematical Logic* 4 hrs. 4 cr. Introduction to mathematical logic, propositional logic, first order logic, proof systems, introduction to model theory. *Preq. MATH 122. 4 hours lecture.*

MATH336 (Liberal Arts) *Modern Algebra* 4 hrs. 4 cr. Axiomatic theory of groups, rings, and fields; isomorphisms and homomorphisms. Examples from the field of real numbers, modular arithmetic, matrices. Offered alternate Spring semesters. *Preq. MATH 333 or permission of instructor.*

MATH395 (Liberal Arts) *Numerical Analysis* 4 hrs. 4 cr. 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. *Preq. MATH 191. Students are expected to complete several laboratory projects.*

MATH400 (Liberal Arts) *Independent Study of Selected Topics in Mathematics* 0 hrs. 2 cr. Independent study under supervision of mathematics faculty. *Preq. Senior status and permission of department. Hours arranged.*

MATH401 (Liberal Arts) *Independent Study of Selected Topics in Mathematics* 0 hrs. 2 cr. Independent study under supervision of mathematics faculty. *Preq. Senior status and permission of department. Hours arranged.*

MATH410 (Liberal Arts) *Mathematical Modeling* 4 hrs. 4 cr. 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. *Preq. MATH 122.*

MATH423 (Liberal Arts) *Advanced Calculus I* 4 hrs. 4 cr. 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. *Preq. MATH 222. Other selected topics.*

MATH424 (Liberal Arts) *Advanced Calculus II* 4 hrs. 4 cr. Continuation of Mathematics 423. *Preq. MATH 423. Not offered on a regular basis. Availability to be determined by the department.*

MATH425 (Liberal Arts) *Introduction to Complex Analysis* 4 hrs. 4 cr. Complex numbers, analytical functions, elementary functions, contour integration. Cauchy's Theorem, power series. *Preq. MATH 423 or permission of instructor. Other selected topics.*

MATH426 (Liberal Arts) *Introduction to Topology* 4 hrs. 4 cr. Introduction to point set topology, fundamental properties of topological spaces; metric spaces, Euclidean spaces, continuous mappings, homeomorphism, separation axioms, compactness, connectedness. Other selected topics. *Preq. MATH 423. Not offered on a regular basis. Availability to be determined by the department.*

MATH479 (Liberal Arts) *History and Philosophy of Mathematics* 1 hrs. 1 cr. History of mathematics from ancient times to the present. Different philosophic views of mathematics ranging from formalism to intuitionism, and the relationship of mathematics to physics and the physical world. Contributions from underrepresented groups *Preq. MATH 122*

MATH481 (Liberal Arts) *Seminar in Contemporary Mathematics* 1 hrs. 1 cr. Investigation of a topic of recent research interest in mathematics or the application of mathematics. *Preq. MATH 122 [These courses will expose math majors to current developments in mathematics.]*

MATH482 (Liberal Arts) *Seminar in Contemporary Mathematics* 1 hrs. 1 cr. Investigation of a topic of recent research interest in mathematics or the application of mathematics. *Preq. MATH 123 [These courses will expose math majors to current developments in mathematics.]*

MATH483 (Liberal Arts) *Seminar in Contemporary Mathematics* 1 hrs. 1 cr. Investigation of a topic of recent research interest in mathematics or the application of mathematics. *Preq. MATH 124 [These courses will expose math majors to current developments in mathematics.]*

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MATH484 (Liberal Arts) Seminar in Contemporary Mathematics 1 hrs. 1 cr. Investigation of a topic of recent research interest in mathematics or the application of mathematics. *Preq. MATH 125 [These courses will expose math majors to current developments in mathematics.]*

MATH485 (Liberal Arts) Seminar in Contemporary Mathematics 1 hrs. 1 cr. Investigation of a topic of recent research interest in mathematics or the application of mathematics. *Preq. MATH 126 [These courses will expose math majors to current developments in mathematics.]*

MATH486 (Liberal Arts) Seminar in Contemporary Mathematics 1 hrs. 1 cr. Investigation of a topic of recent research interest in mathematics or the application of mathematics. *Preq. MATH 127 [These courses will expose math majors to current developments in mathematics.]*

MATH487 (Liberal Arts) Seminar in Contemporary Mathematics 1 hrs. 1 cr. Investigation of a topic of recent research interest in mathematics or the application of mathematics. *Preq. MATH 128 [These courses will expose math majors to current developments in mathematics.]*

MATH488 (Liberal Arts) Seminar in Contemporary Mathematics 1 hrs. 1 cr. Investigation of a topic of recent research interest in mathematics or the application of mathematics. *Preq. MATH 129 [These courses will expose math majors to current developments in mathematics.]*

MATH489 (Liberal Arts) Seminar in Contemporary Mathematics 1 hrs. 1 cr. Investigation of a topic of recent research interest in mathematics or the application of mathematics. *Preq. MATH 130 [These courses will expose math majors to current developments in mathematics.]*

Marketing

MKT341 Introduction to Marketing 3 hrs. 3 cr. Introduction to concepts, institutions and policies of distribution; relationships among manufacturers, wholesalers, retailers, and consumers, market research and strategies, advertising, and sales management. *Preq. ECON 103, ECON 220, MATH 115, ENG 125, BUS 201, BUS 283, ACCT 102 and Junior status required (Formerly ECON 282)*

MKT342 Marketing Research 3 hrs. 3 cr. Application of scientific methodology to development and testing of marketing programs. Examination of research tools including questionnaires, sampling, interviewing and report writing. *Preq. MKT 341, MATH 115, and ECON 220.*

MKT343 Advertising and Public Relations 3 hrs. 3 cr. 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. *Preq. MKT 341.*

MKT344 Retail Management 3 hrs. 3 cr. Organizing, planning, staffing, directing and controlling of retail operations; study of buying and merchandising, store services, human resource utilization, and sales and expense control. *Preq. MKT 341.*

MKT34 Principles of Selling 3 hrs. 3 cr. 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. *Preq. MKT 341 or permission of instructor. Students will develop their skills by role playing.*

MKT346 International Marketing 3 hrs. 3 cr. 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. *Preq. MKT 341.*

MKT347 Consumer Behavior 3 hrs. 3 cr. 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. *Preq. MKT 341 or permission of instructor.*

MKT350 Industrial Marketing 3 hrs. 3 cr. 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. *Preq. MKT 341.*

MKT351 Sales Management 3 hrs. 3 cr. 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. *Preq. MKT 341 or permission of instructor.*

MKT352 Direct Marketing 3 hrs. 3 cr. 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. *Preq. MKT 341.*

MKT353 Aviation Marketing and Economics 3 hrs. 3 cr. 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 *Preq. ECON 102 or Department permission required.*

MKT483 Marketing Management 3 hrs. 3 cr. 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. *Preq. Completion of all other course requirements in marketing specialization.*

MKT490 Independent Study in Marketing 3 hrs. 3 cr. In-depth investigation of a marketing problem of the student's choice with faculty approval and guidance. *Preq. Junior status and permission of instructor.*

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Music

MUS36 (Liberal Arts) *Chorus 3 hrs. 0 cr.* Study and performance of selected choral masterpieces. *Preq. Permission of instructor.*

MUS101 (Liberal Arts) *Introduction to Music 3 hrs. 3 cr.* 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. *Preq.*

MUS110 (Liberal Arts) *Basic Theory I 3 hrs. 3 cr.* Introduction to the fundamentals of music theory and its notation. Topics include scales, key signatures, intervals, transposition, chords, and simple song writing. *Preq.*

MUS111 (Liberal Arts) *Basic Theory II 3 hrs. 3 cr.* Continuation of Music 110. Topics include seventh-chords, chord progressions, modulation, song writing, and theory. *Preq. MUS 110 or placement by examination.*

MUS131 (Liberal Arts) ✘ *Gospel Choir I 3 hrs. 1 cr.* Performance of music for mixed voices in the Afro-American tradition. *Preq. Permission of instructor. Not offered on a regular basis. Availability to be determined by the department.*

MUS135 (Liberal Arts) ✘ *Guitar Workshop I 4 hrs. 2 cr.* Basic techniques of jazz performance. Students employ principles of jazz improvisation on the guitar, and are introduced to the techniques of ensemble playing. *Preq. Not offered on a regular basis. Availability to be determined by the department.*

MUS136 (Liberal Arts) ✘ *Chorus I 4 hrs. 2 cr.* Study and performance of selected choral master works. *Preq. Permission of instructor.*

MUS139 (Liberal Arts) ✘ *Jazz Workshop I 4 hrs. 2 cr.* 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. *Preq. Permission of instructor.*

MUS141 (Liberal Arts) ✘ *Class Instruction in Piano I 1 hrs. 1 cr.* The study of keyboard literature to suit the level of the individual student. *Preq. MUS 110 and permission of instructor. MUS 141 is prerequisite for MUS 241. Not offered on a regular basis. Availability to be determined by the department.*

MUS146 (Liberal Arts) ✘ *Jazz Improvisation I 4 hrs. 2 cr.* Introduction to the basic principles of jazz improvisation. The study of jazz scales, harmonic progressions, and rhythm concepts. Solo transcriptions, analysis, and reconstruction. *Preq. Permission of instructor. Not offered on a regular basis. Availability to be determined by the department.*

MUS210 (Liberal Arts) *Intermediate Musicianship I 3 hrs. 2 cr.* Sight-singing, ear-training and rhythm; fixed syllables; introduction to C clefs and atonality. *Preq. MUS 111. To be taken simultaneously with MUS 220.*

MUS220 (Liberal Arts) *Harmony and Counterpoint I 3 hrs. 3 cr.* 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. *Preq. MUS 111.*

MUS225 (Liberal Arts) *Computer Music I 3 hrs. 3 cr.* Introduction to use of microcomputers for sound synthesis. Topics include wave form synthesis, digital sampling, multi-track recording, and MIDI interfaces. *Preq.*

MUS231 (Liberal Arts) ✘ *Gospel Choir II 3 hrs. 1 cr.* Performance of music for mixed voices in the Afro-American tradition. *Preq. Permission of instructor. Not offered on a regular basis. Availability to be determined by the department.*

MUS235 (Liberal Arts) ✘ *Guitar Workshop II 4 hrs. 2 cr.* Basic techniques of jazz performance. Students employ principles of jazz improvisation on the guitar, and are introduced to the techniques of ensemble playing. *Preq. Not offered on a regular basis. Availability to be determined by the department.*

MUS236 (Liberal Arts) ✘ *Chorus II 4 hrs. 2 cr.* Study and performance of selected choral master works. *Preq. Permission of instructor.*

MUS239 (Liberal Arts) ✘ *Jazz Workshop II 4 hrs. 2 cr.* 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. *Preq. Permission of instructor.*

MUS241 (Liberal Arts) ✘ *Class Instruction in Piano II 1 hrs. 1 cr.* The study of keyboard literature to suit the level of the individual student. *Preq. MUS 110 and permission of instructor. MUS 141 is prerequisite for MUS 241. Not offered on a regular basis. Availability to be determined by the department.*

MUS246 (Liberal Arts) ✘ *Jazz Improvisation II 4 hrs. 2 cr.* Introduction to the basic principles of jazz improvisation. The study of jazz scales, harmonic progressions, and rhythm concepts. Solo transcriptions, analysis, and reconstruction. *Preq. Permission of instructor. Not offered on a regular basis. Availability to be determined by the department.*

MUS250 (Liberal Arts) *Afro-American Music in the United States 3 hrs. 3 cr.* 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. *Preq.*

MUS253 (Liberal Arts) *History of Jazz 3 hrs. 3 cr.* 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. *Preq.*

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MUS270 (Liberal Arts) *Introduction to Ethnomusicology* 3 hrs. 1 cr. 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 Ame Preq. ENG 125 Cross-listed as ANTH 270. *This is a writing intensive course.*

MUS291 (Liberal Arts) *Keyboard Harmony* 3 hrs. 1 cr. Harmonization of melodies, chord progressions, developing skills in commercial and jazz vocal and instrument accompaniment, the technique of modulation at the keyboard. Preq. MUS 111 and MUS 241.

MUS310 (Liberal Arts) *Advanced Musicianship I* 3 hrs. 2 cr. Advanced sight-singing, ear training and rhythm; reading transposed parts from orchestral scores; changing meters; the tritone in atonal music. Preq. MUS 211.

MUS320 (Liberal Arts) *Harmony and Counterpoint III* 3 hrs. 3 cr. 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. Preq. MUS 221.

MUS331 (Liberal Arts) ✘ *Gospel Choir III* 3 hrs. 1 cr. Performance of music for mixed voices in the Afro-American tradition. Preq. Permission of instructor. *Not offered on a regular basis. Availability to be determined by the department.*

MUS335 (Liberal Arts) ✘ *Guitar Workshop III* 4 hrs. 2 cr. Basic techniques of jazz performance. Students employ principles of jazz improvisation on the guitar, and are introduced to the techniques of ensemble playing. Preq. *Not offered on a regular basis. Availability to be determined by the department.*

MUS336 (Liberal Arts) ✘ *Chorus III* 4 hrs. 2 cr. Study and performance of selected choral master works. Preq. Permission of instructor.

MUS339 (Liberal Arts) ✘ *Jazz Workshop III* 4 hrs. 2 cr. 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. Preq. Permission of instructor.

MUS350 (Liberal Arts) *History of Music I* 3 hrs. 3 cr. 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. Preq. MUS 221.

MUS351 (Liberal Arts) *History of Music II* 3 hrs. 3 cr. Continuation of Music 350; the 18th and 19th centuries. Preq. MUS 350.

MUS420 (Liberal Arts) *Instrumentation* 3 hrs. 3 cr. Scoring for small and large instrumental ensembles, including orchestra, jazz ensemble, and band. Microcomputers and digital sampling systems are used to perform arrangements. Preq. MUS 320.

MUS422 (Liberal Arts) *Conducting* 3 hrs. 3 cr. Basic principles of conducting and score reading; analysis of selected choral and orchestral works. Preq. MUS 322 and MUS 420.

MUS425 (Liberal Arts) *Composition I* 3 hrs. 3 cr. Original writing in various styles, with emphasis on the small forms. Microcomputers, MIDI interfaces, and digital sampling systems are used to perform compositions. Preq. MUS 320.

MUS431 (Liberal Arts) ✘ *Gospel Choir IV* 3 hrs. 1 cr. Performance of music for mixed voices in the Afro-American tradition. Preq. Permission of instructor. *Not offered on a regular basis. Availability to be determined by the department.*

MUS435 (Liberal Arts) ✘ *Guitar Workshop IV* 4 hrs. 2 cr. 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 (Liberal Arts) ✘ *Chorus IV* 4 hrs. 2 cr. Study and performance of selected choral master works. Preq. Permission of instructor.

MUS439 (Liberal Arts) ✘ *Jazz Workshop IV* 4 hrs. 2 cr. 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. Preq. Permission of instructor.

MUS461 (Liberal Arts) *Jazz Style and Techniques* 3 hrs. 3 cr. Detailed investigation into the musical styles of jazz, with special emphasis on the major jazz artists who have helped to create and shape them. Preq. Permission of instructor.

MUS490 (Liberal Arts) *Music Research Independent Study* 0 hrs. 3 cr. Investigation of selected musical sources and theoretical writings on music. Individual projects. Preq. Permission of instructor. Hours arranged.

Natural Science

NS370 (Liberal Arts) *Honors Research Seminar* 2 hrs. 1 cr. 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. Preq. ENG 125, General Education Math Requirement, Junior Status with GPA of 2.9 or higher, and permission of instructor. 2 hours lecture/seminar bi-weekly. Written paper required. Pass/Fail grading only.

NS371 (Liberal Arts) *Honors Research Seminar* 2 hrs. 1 cr. 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. Preq. ENG 125, General Education Math Requirement, Junior Status with GPA of 2.9 or higher, and permission of instructor. 2 hours lecture/seminar bi-weekly. Written paper required. Pass/Fail grading only.

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NS470 (Liberal Arts) Honors Research Seminar 2 hrs. 1 cr. 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. *Preq. ENG 125, General Education Math Requirement, Junior Status with GPA of 2.9 or higher, and permission of instructor. 2 hours lecture/seminar bi-weekly. Written paper required. Pass/Fail grading only.*

NS471 (Liberal Arts) Honors Research Seminar 2 hrs. 1 cr. 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. *Preq. ENG 125, General Education Math Requirement, Junior Status with GPA of 2.9 or higher, and permission of instructor. 2 hours lecture/seminar bi-weekly. Written paper required. Pass/Fail grading only.*

Nursing

NURS101 Nursing Process and Pharmacology 2 hrs. 2 cr. The Nursing Process will be utilized as the problem solving approach in providing students with the fundamental concepts and skills needed for the safe and accurate administration of pharmacologic agents to client systems across the life process. Basic mathematical operations and measurements systems will be utilized for calculating drug dosages. Emphasis will be placed on safety measures and client education. Legal, moral and ethical responsibilities in professional nursing practice will be examined. *Preq. Pass program's Math pre-test with a grade of 80% or better without calculator. Department permission required.*

NURS202 Nursing Process and Pharmacotherapeutics 3 hrs. 3 cr. The course utilizes a systems approach and draws on information from multiple disciplines to build on fundamental knowledge of pharmacology. Students are provided with an in-depth examination of the complex interrelationships between pharmacotherapeutics, pharmacokinetics, pharmacodynamics and pathophysiologic processes. Emphasis is placed on pharmacotherapeutics, as it relates to critical thinking, client education, life-span issues, cultural considerations and evidence-based clinical guidelines in nursing practice. *Preq. NURS 101 and Department permission required.*

NURS203 Health Assessment and Wellness Promotion 7 hrs. 5 cr. The Nursing Process and Intersystem framework will be utilized to assist the student in developing biopsychosocial-cultural health assessment skills as a basis for diagnosing and treating human responses to actual or potential health problems. Teaching/ Learning principles will be utilized in assisting client systems with greater potential for wellness to maintain high level wellness. College laboratory experiences are provided to assist the student in developing health assessment and teaching/learning skills. *Preq. NURS 200 and written permission of the Nursing Director. 3 hours lecture, 4 hours laboratory.*

NURS210 Fundamentals of Nursing Practice 9 hrs. 5 cr. The course integrates principles presented in the natural, behavioral sciences and humanities, to introduce the student to professional nursing practice. The Nursing Process and General Systems Theory are utilized to assist the student in developing basic nursing skills and therapeutic communication techniques to promote and maintain high-level wellness in multicultural individual client system in a variety of settings. Ethical, moral and legal aspects related to client-nurse relationships are addressed. Principles of nursing research and evidence-based practice are highlighted as the student acquires selected nursing skills. *Preq. NURS 101 and Department permission required. 3.0 Hours Theory; 6 Hours Clinical laboratory.*

NURS301 Values in Transition: Perspectives of Professional Nursing 4 hrs. 4 cr. 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. *Preq. Admission to the Nursing Program and Department permission required. 4 hours lecture. This is a Writing Intensive Course*

NURS310 Nursing Process: Nursing Care of the Child-bearing Client/Family System 9 hrs. 5 cr. The Nursing process, General Systems and Family Theories are utilized in providing students with the theoretical basis and clinical skills needed to provide culturally sensitive care to client/family systems during the child-bearing/ child-rearing stages of the life process. Students relate research findings to provide evidence-based nursing interventions with focus on client education. Legal, moral and ethical considerations are explored. Primary, secondary and tertiary levels of prevention are examined with emphasis on the primary level. *Preq. NURS 202, NURS 203, NURS 210 and Department permission required. 3.0 Hours Theory; 6 Hours Clinical laboratory.*

NURS314 Management and Leadership in Professional Nursing/Client Intersystems 3 hrs. 3 cr. 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. *Preq. NURS 301.*

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NURS315 *Professional Nurse-Family and Community Intersystem I* 9 hrs. 6 cr. 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. *Preq.* NURS 203, NURS 301. 3 hours lecture, 6 hours field work.

NURS320 *Deviations in Physiological Functioning I: Nursing Interventions for the Adult/Family client systems* 16 hrs. 8 cr. This course utilizes the Nursing Process and General System Theory to focus on caring for the multicultural individual/family client system who is experiencing deviations from wellness. Principles presented in the natural and behavioral sciences, humanities and nursing theory are integrated to assist the students in synthesizing knowledge that requires interventions to restore the client to his/her optimum level of wellness or to a peaceful death. Levels of prevention are examined with emphasis on the secondary level. Ethical, moral and legal issues in nursing practice are addressed. Nursing research and evidence-based practice are incorporated into the care of individual/family system. *Preq.* NURS 301, NURS 310 and Department permission required. 4.0 Hours Theory; 12 Hours Clinical laboratory.

NURS340 *Nursing Care of Children: Infancy to Adolescence* 9 hrs. 5 cr. The Nursing Process and General Systems theory are utilized in providing students with the theoretical knowledge and clinical skills needed to provide culturally sensitive care to children & their families from infancy through late adolescence. The course facilitates integration of the concepts of communication and growth and development in providing primary, secondary and tertiary levels of intervention to children and their families who are experiencing disruption in their biopsychosocial integrity. *Preq.* NURS 301 and NURS 310 and Departmental permission required. 3.0 Hours Theory; 6 Hours Clinical laboratory

NURS405 *Professional Nurse-Family and Community Intersystem II: Disruption in Health Pattern* 9 hrs. 6 cr. 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. *Preq.* NURS 314, NURS 315; BIO 336 and written permission of instructor. 3 hours lecture, 6 hours laboratory.

NURS406 *Professional Nurse-Societal and Community Client Intersystems: Emergent Evolution* 3 hrs. 3 cr. 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. *Preq.* NURS 405 and written permission of the Director of the Nursing Program. 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 hrs. 3 cr. 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. *Preq.* NURS 405, NURS 406 for RN/BSN students, NURS 420 and NURS 430 for Generic students and department permission required for both. This is a Writing Intensive Course.

NURS415 *Professional Nurse-Family Group and Community Intersystems-Generic* 9 hrs. 6 cr. The nursing and epidemiological processes are utilized to initiate change in professional nurse interactions with multicultural family/group/community - environment inter-systems throughout the life process, to facilitate health maintenance and promotion. Theories related to group dynamics are explored to reinforce leadership/management, teaching/learning and decision-making skills. *Preq.* NURS 420, NURS 430 and Department permission required. 3 Hours lecture; 6 Hours Clinical laboratory. This course is open only to students in the Generic Nursing Program. Not open to students in the RN/BSN program.

NURS420 *Deviations in Physiological Functioning II: Nursing Interventions for the Adult/Family client systems* 16 hrs. 8 cr. This course utilizes the Nursing Process and General System Theory as well as Group and Crisis theory to focus on caring for the multicultural individual/family/group client systems experiencing biophysiological instability that requires emergent or urgent nursing interventions. The course builds on principles presented in Nurs. 320 and requires more complex nursing interventions to address deviations and complications in order to restore the client to an optimal level of wellness or to a peaceful death. Ethical, moral and legal issues in nursing practice are addressed. Research is applied to practice through the use of the best evidence currently available for clinical decision making. *Preq.* NURS 314, NURS 320, NURS 340 Department permission required. 4.0 Hours Theory; 12 Hours Clinical laboratory

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NURS430 Nurse - Client Intersystems: Psychiatric/Mental Health Nursing 7 hrs. 4 cr. The course utilizes the Nursing Process and General Systems Theory in providing students with the theoretical knowledge and skills to promote the mental health of multicultural client systems throughout the life process. Commonly occurring and complex mental disorders affecting individual, family and group client systems are examined. Primary, secondary and tertiary levels of prevention are addressed. Students will use therapeutic communication techniques as they interact with client systems with mental disorders. *Preq.* NURS 314, NURS 320 and NURS 340. *Department permission required.* 2.5 Hours lecture; 4.5 Hours Clinical

Occupational Therapy

OT313 Fundamentals of Occupational Therapy 3 hrs. 3 cr. 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 t

OT315 Functional Human Anatomy 5 hrs. 4 cr. Exploration of gross structure and systems of the human body, skeletal, muscular, nervous, circulatory, respiratory, endocrine, and integumentary systems. 2 hours lecture, 3 hours laboratory.

OT316 Functional Human Physiology 5 hrs. 4 cr. Exploration of the physiological functioning of the human body and its relationship to health; skeletal, muscular, nervous, circulatory, respiratory, endocrine, and integumentary systems. 2 hours lecture, 3 hours laboratory.

OT318 Clinical Kinesiology 5 hrs. 4 cr. 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 occupations. 2 hours lecture, 3 hours laboratory.

OT319 Common Medical Conditions: Impact on Occupational Performance 3 hrs. 3 cr. In this course students will examine the impact various medical conditions have on body structure and function and the potential impact these conditions have on occupational performance. Students will look at the dynamic interactions between body systems and environments to better understand what, if any constraints are caused by the more common medical conditions with which Occupational Therapist's come in contact. *Preq.* Department permission required.

OT321 Occupational Analysis 5 hrs. 3 cr. This class will introduce students to the OT Practice Framework as a basis for intervention. Students will look at occupational analysis through all performance areas, as well as grading and adaptation of activities. They will also explore the relationship between environment and performance demands, issues of context, and cultural implications. The impact of disability on occupational performance will be examined and assessment tools including ADL, IADL, work, play will be introduced. The lab. component will include, but not be limited to, application of concepts and practice of task analysis and task modification techniques as a basis for occupational therapy intervention. *Preq.* Department permission required. 2 hours lecture, 2 hours laboratory.

OT322 Occupation Through the Life Span 3 hrs. 3 cr. Students will learn about the dynamic interaction between culture, human and non-human environment in shaping how and what people do throughout their life span.

OT403 Advanced Occupational Analysis 3 hrs. 3 cr. Students further develop their understanding of the multifaceted dimensions of occupational analysis as a basis for practice.

OT411 Occupational Therapy Process I: Pediatric Intervention 5 hrs. 4 cr. This is a course on Occupational Therapy treatment for pediatric populations. Interventions emphasize children with motor, cognitive pervasive developmental delay and learning disability. Contrast is made between traditional hierarchical models and the current dynamic system theory view of developmental process and skill acquisition. Emphasis is on application of child centered and occupational performance models of treatment. Field observations will be used to augment discussion of professional issues in practice. Lab component will include but not limited to application of concepts and practice of treatment techniques. *Preq.* Department permission required. 3 hrs Lecture, 2 hours laboratory.

OT417 Research Methods 4 hrs. 3.5 cr. This course will introduce the occupational therapy student to qualitative and quantitative research design, statistical models and tests, research methodology and literature retrieval sources. The course will increase students' knowledge of descriptive a *Preq.* MATH 111 *Students will be required to avail themselves of the computer technology appropriate for this course (SPSS).*

OT423 Collaboration in Occupational Therapy 4 hrs. 4 cr. 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

OT432 Neuroscience 3.5 hrs. 3.5 cr. Neuroanatomical and neurophysiological systems. Diseases and lesions of the central, peripheral, and autonomic nervous systems relative to impact on human function.

OT446 Independent Study of Selected Topics in Occupational Therapy 0 hrs. 3 cr. This seminar is designed for students who have, for example, completed their pediatric coursework (OT 411). Students will have the opportunity to develop more specialized skills than typical entry-level coursework provides in this area of practice under the supervision of Occupational Therapy faculty. Readings, web searches, weekly assignments will be given by professor and quality evaluated. Major papers-presentations (treatment plans, in-service presentations) will be discussed with student. Research ideas in preparation for the required graduate project will be explored. *Preq.* Department permission required. Meeting times will be determined by the professor and student. The course is not offered on a regular basis, availability to be determined by the department.

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OT504 *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 Intervention*. 4 hrs.; 4cr. 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 Intervention* 4 hrs.; 4cr. 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 2 of the Fieldwork I experience through seminars, structured assignments and case studies.

OT509 *Occupational Therapy Process II: Psychosocial Intervention* 4 hrs.; 4 cr. This course is designed to teach the evaluation and treatment process in occupational therapy for persons with psychosocial dysfunction. The course will be integrated into Stage 2 of the Fieldwork I experience through seminars, structured assignments and case studies.

OT513 *Systems Management*. 3hrs.; 3cr. Administrative and management issues in Occupational Therapy. Student will be prepared to take responsibility in supervising personnel, develop a budget and set up a private practice in an urban area.

OT517 *Research Design* *(WI) 3hrs.; 3cr. Design of a feasible research proposal related to occupational therapy practice.

OT518 *Research Seminar I*. 3 hrs.; 1 cr. Develop a feasible research proposal related to occupational therapy practice.

OT519 *Research Seminar II*. 3 hrs.; 1 cr. Prereq: OT 518 This graduate-level seminar is the second in a sequence of four graduate-level research seminars designed to provide students working on their research projects with one-on-one and group advisement. This seminar builds upon and adds to the existing research activities performed in the previous Research Seminar I (OT518). The students are responsible for carrying out activities related to the theoretical conceptualization of the project and its design including the finalizing of the York IRB application. Students are also responsible for updating and further enhancing the content of the first two chapters of their project.

OT521 *Research Seminar III*. 3 hrs.; 1cr. Prereq: OT 519 This graduate-level seminar is the third in a sequence of four graduate-level research seminars designed to provide students working on their research projects with individual and group advisement. This seminar builds upon and adds to research activities performed in Research Seminar II (OT519). Students are responsible for carrying out activities related to the methodological aspects of their project, namely, design; instrument/s and instrumentation; devise and pilot test instrument/s specifically designed for their project, when needed; understand the importance of the psychometric properties of these instrument; and statistical analysis. Students are also responsible for updating and further enhancing the content of the first two chapters of their project and submit a draft of the third chapter. In this seminar students will work on data collection and entering data . Preliminary results will be analyzed during intersession. This will ensure continued focus and timely progression to the last phase of the research.

OT522 *Research Seminar IV*. 3 hrs.; 2cr. Prereq: OT 521 This graduate-level seminar is the fourth in a sequence of four graduate-level research seminars designed to provide students working on their research projects with one-on-one and group advisement. This seminar builds upon and adds to the existing research activities performed in the previous Research Seminar III (OT521). Students are responsible for carrying out activities related to the data collection, creating and managing an SPSS file(s); data analyses; interpretation; and conclusions of the results. Students are required to submit the final draft of the project and a PowerPoint presentation, which will conclude their research requirement.

OT641 *Fieldwork II Occupational Therapy Practice I* (3 months full time internship) 1 cr. Professionally supervised clinical experience.

OT642 *Fieldwork II Occupational Therapy Practice II* 3 months full time internship; 1 cr. Professionally supervised clinical experience.

OT509 *Occupational Therapy Process II: Psychosocial Intervention WI* 4 hrs. 4 cr. This course is designed to cover all components of the occupational therapy practice framework. As it relates to individuals with psychosocial dysfunction. It will also include but not be limited to such skills as documentation, client–therapist interaction and professional issues. The course will be integrated into Stage 2 of the Fieldwork I experience via seminars, structured assignments and case studies. This is a required writing intensive course. *Prereq. WRIT 303, OT 508, Department Permission THIS IS A WRITING INTENSIVE COURSE*

OT643 *Captstone Community Experience* 172 hrs. 4 cr. This course provides the student with the opportunity to practice learned knowledge, skills and attitudes with persons in the community in a non-health related facility. Students will select a facility from a list of sites approved by instructor. Students will volunteer at the site 12 weeks for the entire semester, and attend a 4 hr seminar during the 14 week semester. Students will conduct a needs assessment, integrating the mission of the facility, research evidence-based approaches for community based health and wellness programs, and generate and occupation-based program for the benefit of the community. Student will report outcomes to stake holders in a final power point presentation. *Prereq. Department permission required.*

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OT644 *Advanced Occupational Therapy Theory & Practice* 3 hrs. 3 cr. This course is for students in their last semester of didactic work after completing their fieldwork experiences. Students will critique application of occupational therapy treatment techniques as applied to various disorders across lifespan. This analysis will be expanded to include analysis of the foundational theories and published evidence that supports the use of these treatment approaches. Students will use case materials from their fieldwork experiences. *Preq. Department permission required. Availability to be determined by the department.*

OT645A *Occupational Therapy Practice* 3 hrs. 3 cr. 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. *Preq. Department permission required. Availability to be determined by the department.*

OT645B *Occupational Therapy Practice* 3 hrs. 3 cr. 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.*

Physical Education

PE139 *Instructional Methodologies of Teaching Sport Skills* 2 hrs. 2 cr. 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* 2 hrs. 1 cr. History and benefits of weight training, training principles and procedures related to weight training, implementation of a personal weight training program.

PE150 *Fitness for Living* 3 hrs. 2 cr. 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.*

PE151 *Basketball* 2 hrs. 1 cr. Basic skills leading up to actual competition; team play, rules, tactics, and strategy.

PE153 *Wrestling* 2 hrs. 1 cr. Basic skills in free style college wrestling.

PE154 *Track and Field* 2 hrs. 1 cr. Basic skills in sprinting, distance running, relays, high jump, and all field events.

PE155 *Fencing* 2 hrs. 1 cr. Basic skills in foil fencing.

PE156 *Gymnastics I* 2 hrs. 1 cr. Fundamental skills in tumbling, trampolining, and gymnastic apparatus work.

PE157 *Gymnastics II* 2 hrs. 1 cr. Intermediate and advanced gymnastic skills; emphasis on use of skills in creative gymnastic routines. *Preq. PE 156 or permission of instructor.*

PE158 *Football* 2 hrs. 1 cr. 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.

PE159 *Self-Defense Activities* 2 hrs. 1 cr. Basic skills in self-defense activities such as Karate and/or Judo.

PE162 *Lacrosse* 2 hrs. 1 cr. Individual and team skills; formations and positional function; tactics and strategy in competition.

PE163 *Softball* 2 hrs. 1 cr. Techniques of batting, running, throwing, and catching; position play and game strategy.

PE164 *Soccer* 2 hrs. 1 cr. Individual and team skills; formations and positional function; tactics and strategy in competition.

PE165 *Volleyball* 2 hrs. 1 cr. Basic skills leading up to actual competition; team play, rules, tactics, and strategy.

PE166 *Yoga* 2 hrs. 1 cr. Beginning and intermediate postures of hatha yoga; philosophy and relaxation techniques.

PE167 *Handball* 2 hrs. 1 cr. Elements of one-wall and four-wall handball; basic shots, strategy, competitive play, rules and scoring of singles and doubles games.

PE170 *Canoeing* 2 hrs. 1 cr. Theory, techniques, and practice of canoeing. Includes class session, canoeing at nearby marina, and two day Delaware River field trip. *Preq. Ability to swim 75 yards.*

PE171 *Tennis* 2 hrs. 1 cr. Fundamental techniques of the game; basic strokes and court strategy; rules and scoring of singles and doubles games.

PE173 *Folk and Social Dance* 2 hrs. 1 cr. Traditional and current dance favorites; dance skills and techniques of folk, square, ballroom, and novelty dances.

PE174 *Golf* 2 hrs. 1 cr. Theory, rules, and etiquette of golf; basic skills.

PE176 *Modern Dance I* 2 hrs. 1 cr. Fundamental movements and basic techniques; metrics, movement phrases, improvisation, and composition.

PE177 *Small Boat Sailing* 2 hrs. 1 cr. 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. *Preq. Ability to swim 75 yards.*

PE178 *Outdoor Living: Hiking and Backpacking* 2 hrs. 1 cr. Essentials of hiking, backpacking and outdoor living. Includes classroom sessions and four day Adirondack or Catskill Mountains trip.

PE179 *Skiing* 2 hrs. 1 cr. Introduction to downhill skiing.

PE181 *Badminton* 2 hrs. 1 cr. Fundamental techniques of the game; basic strokes and court strategy; rules and scoring of singles and doubles game.

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PE182 *Swimming for Non-Swimmers* 2 hrs. 1 cr. Individualized program to assist non-swimmer develop basic skills, leading to elementary swimming strokes.

PE183 *African Dance* 2 hrs. 1 cr. Techniques, practice, and rhythms in African dance.

PE215 *Basics of Motor Development and Motor Learning* 4 hrs. 3 cr. 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* 2 hrs. 1 cr. Advanced strokes and court strategy in playing competitive singles and doubles tennis. *Preq. PE 171 or permission of instructor.*

PE277 *Dance Composition* 2 hrs. 1 cr. Basic elements of choreography, solo, and group work. *Preq. PE 176 or permission of instructor.*

PE278 *Modern Dance II* 2 hrs. 1 cr. Intensive study of Modern Dance techniques; emphasis on movement exploration and individual and group composition. *Preq. PE 176 or permission of instructor.*

PE279 *Leadership in Outdoor Living* 2 hrs. 1 cr. 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. *Preq. PE 178 or permission of instructor.*

PE280 *Winter Mountaineering* 2 hrs. 1 cr. 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. *Preq. PE 178 or permission of instructor.*

PE282 *Swimming* 2 hrs. 1 cr. Skill development in swimming; emphasis on individual development of good technique and stroke development.

PE284 *Skin and Scuba Diving* 2 hrs. 1 cr. Basic use of Scuba gear leading to Professional Association of Diving Instructors (PADI) certification: safety techniques and theory of Scuba diving. *Preq. Ability to swim 200 yards.*

PE285 *Senior Life Saving* 2 hrs. 1 cr. Techniques of lifesaving and water rescue. Satisfactory completion certifies student for American Red Cross Senior Life Saving Certificate. *Preq. Ability to swim 200 yards.*

PE287 *Water Safety Instructor* 3 hrs. 2 cr. Theory, technique and practice of swimming instruction, lifesaving, and water safety. Satisfactory completion certifies student for American Red Cross Water Safety Instructor Certificate. *Preq. Student must hold American Red Cross Advanced Life Saving Certificate within last 3 years. 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* 2 hrs. 1 cr. 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. *Preq. PE 150 or permission of instructor.*

PE292 *Independent Study in Physical Activity* 2 hrs. 1 cr. 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. *Preq. PE 150 or permission of instructor.*

PE293 *Independent Study in Physical Activity* 2 hrs. 1 cr. 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. *Preq. PE 150 or permission of instructor.*

PE294 *Independent Study in Physical Activity* 2 hrs. 1 cr. 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. *Preq. PE 150 or permission of instructor.*

PE295 *Special Topic in Physical Activity* 2 hrs. 1 cr. 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: Not offered on a regular basis. Availability to be determined by the department.*

PE296 *Special Topic in Physical Activity* 2 hrs. 1 cr. 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: Not offered on a regular basis. Availability to be determined by the department.*

PE310 (Liberal Arts) *Perceptual-Motor Activities for Children* 3 hrs. 2 cr. 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* 2 hrs. 1 cr. 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* 2 hrs. 1 cr. 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* 2 hrs. 1 cr. Application of movement principles to games and sports for children. *Not offered on a regular basis. Availability to be determined by the department.*

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PE322 (Liberal Arts) Recreation, Organization and Leadership 3 hrs. 3 cr. 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 (Liberal Arts) History of Dance 3 hrs. 3 cr. 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 (Liberal Arts) Understanding Dance 3 hrs. 3 cr. 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 (Liberal Arts) Principles and Foundations of Physical Education 2 hrs. 2 cr. The role of the physical educator in contemporary education; the study of scientific and philosophical principles and of historical foundations. *Preq. Open only to students who intend to major in physical education.*

PE353 (Liberal Arts) Physical Activity for Special Populations 2 hrs. 2 cr. Principles of physical activity for individuals with physical, mental, or developmental disabilities, individuals with chronic disease, and the aged.

PE355 (Liberal Arts) Psychology of Sport and Motor Performance 2 hrs. 2 cr. 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. *Preq. Completion of Behavioral Science Area Requirements. Department permission required. Not offered on a regular basis. Availability to be determined by the department.*

PE358 (Liberal Arts) Physiology of Exercise 3 hrs. 3 cr. 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. *Preq. BIO 281. Department permission required.*

PE360 (Liberal Arts) Theory and Techniques of Coaching 2 hrs. 2 cr. Techniques and methods of coaching individual, dual, and team sports; the coach's role in planning and implementing programs. *Preq. Department permission required. Not offered on a regular basis. Availability to be determined by the department.*

PE362 (Liberal Arts) Kinesiology 3 hrs. 3 cr. Anatomy of skeletal and muscular systems, mechanics of bodily movement, and detailed muscular analysis of skills used in physical activity. *Preq. BIO 281. Department permission required.*

PE363 (Liberal Arts) Measurement and Evaluation in Health and Physical Education 3 hrs. 3 cr. Nature and purpose of measurement in health and physical education; analysis of pertinent tests and their use in evaluating performance in these areas. *Preq. MATH 111. Department permission required.*

PE365 (Liberal Arts) Research in Health and Physical Education 3 hrs. 3 cr. 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 profess *Preq. MATH 111 and ENG 125 This is a Writing Intensive (WI) course.*

PE368 Physical Education, Sports and Society 3 hrs. 3 cr. This course looks at the role of sport and physical activity in American life, and sociological implications of sport. Students will be introduced to current social issues involving the profession and their relationship to sociological theory. *Effective p Preq. Department permission required.*

PE452 (Liberal Arts) Cardiovascular Fitness 4 hrs. 3 cr. 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. *Preq. PE 358 or equivalent preparation in Biology. Department permission required. Students registering for this course are advised to register for PE 473 or PE 474 concurrently.*

PE471 Field Work in Physical Education and Recreation 2 hrs. 1 cr. Supervised experience in the field under the guidance of a faculty advisor in physical education. *Preq. Permission of Physical Education Faculty prior to registration.*

PE472 Field Work in Physical Education and Recreation 2 hrs. 1 cr. Supervised experience in the field under the guidance of a faculty advisor in physical education. *Preq. Permission of Physical Education Faculty prior to registration.*

PE473 Field Work in Physical Education and Recreation 4 hrs. 2 cr. Supervised experience in the field under the guidance of a faculty advisor in physical education. *Preq. Permission of Physical Education Faculty prior to registration.*

PE474 Field Work in Physical Education and Recreation 4 hrs. 2 cr. Supervised experience in the field under the guidance of a faculty advisor in physical education. *Preq. Permission of Physical Education Faculty prior to registration.*

PE482 (Liberal Arts) Organization, Administration and Supervision of Physical Education 3 hrs. 3 cr. Factors involved in the administration and supervision of programs, facilities, and personnel in physical education. *Preq. Senior status and physical education major.*

PE487 (Liberal Arts) Adult Fitness Programs 3 hrs. 3 cr. Planning, designing, managing, and evaluating adult fitness programs. *Preq. Junior status in departmental major.*

PE491 (Liberal Arts) Special Seminar in Physical Education 2 hrs. 2 cr. Intensive study of a special area of interest in physical education. *Preq. Senior status. Topics will vary with each offering to reflect new trends and current thought in physical education.*

PE492 (Liberal Arts) Special Seminar in Physical Education 2 hrs. 2 cr. Intensive study of a special area of interest in physical education. *Preq. Senior status. Topics will vary with each offering to reflect new trends and current thought in physical education.*

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PE493 (Liberal Arts) *Special Seminar in Physical Education* 3 hrs. 3 cr. Intensive study of a special area of interest in physical education. *Req. Permission of instructor. Topics will vary with each offering to reflect new trends and current thought in physical education.*

PE494 (Liberal Arts) *Special Seminar in Physical Education* 3 hrs. 3 cr. Intensive study of a special area of interest in physical education. *Req. Permission of instructor. Topics will vary with each offering to reflect new trends and current thought in physical education.*

PE495 (Liberal Arts) *Independent Study in the Scientific Foundations of Physical Education* 2 hrs. 2 cr. 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. *Req. Agreement of faculty member to act as advisor.*

PE496 (Liberal Arts) *Independent Study in the Scientific Foundations of Physical Education* 2 hrs. 2 cr. 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. *Req. Agreement of faculty member to act as advisor.*

PE497 (Liberal Arts) *Independent Study in the Scientific Foundations of Physical Education* 1 hrs. 1 cr. 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. *Req. Agreement of faculty member to act as advisor.*

PE498 (Liberal Arts) *Independent Study in the Scientific Foundations of Physical Education* 1 hrs. 1 cr. 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. *Req. Agreement of faculty member to act as advisor.*

Physical Education Athletic Training

PEAT310 *Introduction to Athletic Training and Sports Medicine* 3 hrs. 3 cr. 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. *Req. BIO 281, and PE 315.*

PEAT318 *Field Work: Introduction to Athletic Training and Sports Medicine* 7 hrs. 1 cr. 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. *Co-req.Coreq. PEAT 310.*

PEAT320 *Therapeutic Exercise and Evaluation* 3 hrs. 3 cr. Principals and methods of on field evaluations for athletic injuries; clinical therapeutic exercise post injury, and pre and post surgery. *Req. PEAT 310, and PE 362.*

PEAT328 *Field Work: Therapeutic Exercise and Evaluation* 14 hrs. 2 cr. 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. *Co-req.Coreq. PEAT 320.*

PEAT330 *Scientific Basis in Athletic Training* 3 hrs. 3 cr. This course emphasizes the pathology of sports injuries and related conditions induced by training. *Req. PEAT 320, and PE 358.*

PEAT338 *Field Work: Scientific Basis in Athletic Training.* 14 hrs. 2 cr. 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. *Co-req.Coreq. PEAT 330.*

PEAT340 *Modalities and Management Strategies in Athletic Training* 3 hrs. 3 cr. 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. *Req. PEAT 330.*

PEAT348 *Field Work: Modalities and Management Strategies in Athletic Training* 20 hrs. 3 cr. 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. *Co-req.Coreq. PEAT 340.*

Philosophy

PHIL101 (Liberal Arts) *Freedom and Reason* 3 hrs. 3 cr. 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 (Liberal Arts) *Beginning Informal Logic* 3 hrs. 3 cr. 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. *Req. ENG 125.*

PHIL103 (Liberal Arts) *Introduction to Philosophy* 3 hrs. 3 cr. Basic concepts and techniques of philosophical thinking. *Req. ENG 125.*

PHIL104 (Liberal Arts) *Introduction to Knowledge and Value* 3 hrs. 3 cr. 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. *Req. ENG 125. Not offered on a regular basis. Availability to be determined by the department.*

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PHIL121 (Liberal Arts) *Beginning Deductive Logic* 3 hrs. 3 cr. Introduction to the logic of propositions and arguments. *Preq. ENG 125.*

PHIL202 (Liberal Arts) *Major Ideas and Issues in Education* 3 hrs. 3 cr. 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. *Preq. ENG 125. Fieldwork included.*

PHIL203 (Liberal Arts) *Philosophy of Women* 3 hrs. 3 cr. 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. *Preq. PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151. Not offered on a regular basis. Availability to be determined by the department.*

PHIL204 (Liberal Arts) *Philosophy and Literature* 3 hrs. 3 cr. Philosophical issues presented in certain works of literature. *Preq. PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151. Not offered on a regular basis. Availability to be determined by the department.*

PHIL211 (Liberal Arts) *Ancient Philosophy* 3 hrs. 3 cr. Philosophy from the Pre-Socratics to Marcus Aurelius. *Preq. PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151.*

PHIL212 (Liberal Arts) *Medieval Philosophy* 3 hrs. 3 cr. Philosophy from the 5th through the 14th centuries: Christian, Jewish and Islamic philosophies. Study of the development of arts and methods for the interpretation of sacred texts as the basis for morals and politics, epistemology, and metaphysics. *Compar Preq. ENG 125 and PHIL 102 or 103 or 121 This is a Writing Intensive course.*

PHIL213 (Liberal Arts) *Modern Philosophy* 3 hrs. 3 cr. Philosophy from the Renaissance through the 19th century. *Preq. PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151.*

PHIL217 (Liberal Arts) *Philosophies of India* 3 hrs. 3 cr. 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. *Preq. PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151.*

PHIL218 (Liberal Arts) *Latin American Philosophy* 3 hrs. 3 cr. An introduction to the development of philosophy in Latin America from colonial times to the present. *Preq. PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151.*

PHIL219 (Liberal Arts) *American Philosophy* 3 hrs. 3 cr. Philosophy in the United States from the writings of the Founders to the 20th Century. *Preq. PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151.*

PHIL224 (Liberal Arts) *Philosophical Problems of the Social Sciences* 3 hrs. 3 cr. Different conceptions of what the social sciences are, their relation to the natural sciences, and their potential value to humanity. *Preq. PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151. Not offered on a regular basis. Availability to be determined by the department.*

PHIL231 (Liberal Arts) *Philosophical Issues About Business* 3 hrs. 3 cr. An examination of ethical and social issues concerning business. *Preq. PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151. Not offered on a regular basis. Availability to be determined by the department.*

PHIL241 (Liberal Arts) *Philosophical Psychology* 3 hrs. 3 cr. Various classical and contemporary theories of the nature of the mind and its relation to the body. *Preq. PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151. Not offered on a regular basis. Availability to be determined by the department.*

PHIL261 (Liberal Arts) *Existentialism* 3 hrs. 3 cr. The themes unifying the existentialist movement in 19th and 20th century continental philosophy, from Kierkegaard to Sartre and Camus. *Preq. PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151. Not offered on a regular basis. Availability to be determined by the department.*

PHIL308 (Liberal Arts) *Biomedical Ethics* 3 hrs. 3 cr. 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. *Preq. PHIL 102, PHIL 103 or PHIL 121. WRIT 301, WRIT 302, or WRIT 303. This is a Writing Intensive Course. Offered every spring.*

PHIL322 (Liberal Arts) *Philosophy of Science* 3 hrs. 3 cr. Classical and contemporary presuppositions and concepts of science; inductive, hypothetical- deductive, and probabilistic patterns of explanation and problems arising from them. *Preq. ENG 125 and PHIL 102 or PHIL 103 or PHIL 121.*

PHIL341 (Liberal Arts) *Contemporary Philosophy* 3 hrs. 3 cr. Selected major contemporary philosophers and schools including representatives of Continental and Anglo-Saxon movements. *Preq. PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151. Not offered on a regular basis. Availability to be determined by the department.*

PHIL351 (Liberal Arts) *Ethics* 3 hrs. 3 cr. Major writings in ethics. *Preq. PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151. Not offered on a regular basis. Availability to be determined by the department.*

PHIL352 (Liberal Arts) *Philosophy of Art* 3 hrs. 3 cr. Problems in the philosophy of art. *Preq. PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151. Not offered on a regular basis. Availability to be determined by the department.*

PHIL353 (Liberal Arts) *Social and Political Philosophy* 3 hrs. 3 cr. Basic philosophical issues involved in theories of man and society. *Preq. PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151. Not offered on a regular basis. Availability to be determined by the department.*

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PHIL354 (Liberal Arts) *Philosophy of Religion* 3 hrs. 3 cr. Philosophical issues in major writings on the nature and being of God and the religious experience. *Preq. PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151. Not offered on a regular basis. Availability to be determined by the department.*

PHIL355 (Liberal Arts) *The Philosophy of Love and Friendship* 3 hrs. 3 cr. 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. *Preq. PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151.*

PHIL356 (Liberal Arts) *Philosophy of Law* 3 hrs. 3 cr. Basic philosophical issues concerning law. *Preq. PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151. Not offered on a regular basis. Availability to be determined by the department.*

PHIL357 (Liberal Arts) *Philosophy of History* 3 hrs. 3 cr. The special nature of historical knowledge and historical thinking. *Preq. PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151. Not offered on a regular basis. Availability to be determined by the department.*

PHIL358 (Liberal Arts) *Philosophy of Language* 3 hrs. 3 cr. Implications of the structure and use of natural and artificial languages for the nature of the mind, meaning, and reality. *Preq. PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151. Not offered on a regular basis. Availability to be determined by the department.*

PHIL460 (Liberal Arts) *Seminar* 3 hrs. 3 cr. Problem or philosophical system examined in detail. *Preq. PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151 and WRIT 301. May be repeated for credit with consent of advisor. Not offered on a regular basis. Availability to be determined by the department.*

PHIL497 (Liberal Arts) *Independent Study* 0 hrs. 3 cr. Philosophical inquiry on a problem determined by the student in consultation with the philosophy faculty. *Preq. PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151 and WRIT 301. Hours arranged.*

PHIL498 (Liberal Arts) *Independent Study* 0 hrs. 3 cr. Philosophical inquiry on a problem determined by the student in consultation with the philosophy faculty. *Preq. PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151 and WRIT 301. Hours arranged.*

PHIL499 (Liberal Arts) *Independent Study* 0 hrs. 3 cr. Philosophical inquiry on a problem determined by the student in consultation with the philosophy faculty. *Preq. PHIL 102 or PHIL 103 or PHIL 121 or PHIL 122 or PHIL 151 and WRIT 301. Hours arranged.*

Pharmaceutical Science

PHS301 ✖ *Pharmaceutics* 3 hrs. 3 cr. This course will enable students to use chemistry in characterization, development, evaluation, and preparation of pharmaceutical dosage forms to understand drug response, dosage form and the behavior and efficacy of pharmaceuticals. Will provide a core understanding of the biological mechanisms by which one drug can affect the disposition of another. *Preq. CHEM 233, 234 and 321*

PHS350 ✖ *Pharmaceutical Manufacturing* 3 hrs. 3 cr. An introductory overview of the pharmaceutical industry touching on basic processes, facilities design, validation and regulatory affairs. Emphasis on technical aspects of manufacturing processes and the chemical and mechanical areas. *Preq. PHS 301*

PHS401 ✖ *Pharmacology* 3 hrs. 3 cr. This course will discuss how chemical agents either therapeutic or toxic, affect living organisms. Pharmacology is the science of drug action on biological systems. *Preq. CHEM 330 or CHEM 412*

PHS480 ✖ *Research in Pharmaceutical Science* 6 hrs. 3 cr. Individually guided laboratory investigations of advanced topics relevant to pharmaceutical research and drug discovery. *Preq. Department permission required.*

PHS490 ✖ *Internships in Pharmaceutical Science* hrs. cr. Internship at the U.S. Food and Drug Administration or a pharmaceutical company *Preq. Department permission required. 1 hour of instruction every week, minimum 120 hours work experience per semester.*

Physics

PHYS101 (Liberal Arts) *College Physics I* 9 hrs. 6 cr. 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. *Co-req. Coreq. MATH 121. 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 (Liberal Arts) *College Physics II* 7 hrs. 5 cr. 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. *Preq. PHYS 101 or PHYS 151. 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.*

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PHYS151 (Liberal Arts) University Physics I 7 hrs. 5 cr. 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. *Preq.* 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 (Liberal Arts) University Physics II 7 hrs. 5 cr. 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. *Preq.* PHYS 101 or PHYS 151. 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 (Liberal Arts) Mechanics I 4 hrs. 3 cr. 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. *Preq.* PHYS 152.

PHYS241 (Liberal Arts) Modern Physics 4 hrs. 3 cr. Special relativity, black body radiation, Planck's quantization law, radioactivity, discoveries of electron and nuclear atom, particle wave duality, Bohr atom, introduction to quantum theory, Schrodinger's equation, the hydrogen atom, high energy physics, modern experimental techniques. *Preq.* PHYS 106 or PHYS 108 and MATH 122.

PHYS282 (Liberal Arts) Weather and Climate 4 hrs. 3 cr. 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 (Liberal Arts) Electricity and Magnetism I 4 hrs. 3 cr. 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. *Preq.* PHYS 211.

PHYS341 (Liberal Arts) Introduction to Quantum Mechanics for Engineers and Scientists 3 hrs. 3 cr. 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. *Preq.* PHYS 241/PHYS 321, MATH 222.

PHYS351 (Liberal Arts) Statistical Mechanics 4 hrs. 3 cr. 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. *Preq.* PHYS 211, PHYS 241 and MATH 221.

PHYS383 (Liberal Arts) Modern Physics Laboratory 5 hrs. 3 cr. 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. *Preq.* PHYS 241. 1 hour lecture, 4 hours laboratory.

PHYS412 (Liberal Arts) Mechanics II 3 hrs. 3 cr. 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. *Preq.* PHYS 211. *Availability to be determined by the department.*

PHYS422 (Liberal Arts) Electricity and Magnetism II 3 hrs. 3 cr. Dipole and multipole fields; solutions of potential problems; the electrostatic field in dielectric media; transient currents; applications of Maxwell's equations; the Lienard Wiechert potentials and radiation from accelerated charges. *Preq.* PHYS 321. *Not offered on a regular basis. Availability to be determined by the department.*

PHYS431 (Liberal Arts) Waves and Optics 4 hrs. 3 cr. 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. *Preq.* PHYS 321.

PHYS441 (Liberal Arts) Quantum Mechanics and Atomic Physics 4 hrs. 3 cr. 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. *Preq.* PHYS 241.

PHYS442 (Liberal Arts) Nuclear and Particle Physics 3 hrs. 3 cr. 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; fundamental forces; detection and measurement of radiation; accelerators; nuclear models; nuclear reactions; elements of fundamental particle properties and symmetries. *Preq.* PHYS 241.

PHYS455 (Liberal Arts) Medical Physics Theory and Practice 3 hrs. 3 cr. 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. *Preq.* Senior status in physics and permission of instructor.

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PHYS456 (Liberal Arts) *Clinical Internship in Medical Physics* 1 hrs. 3 cr. 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. *Co-req.Coreq. PHYS 455. One full day per week.*

PHYS461 (Liberal Arts) *Solid State Physics* 3 hrs. 3 cr. 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. *Preq. PHYS 351.*

PHYS491 (Liberal Arts) *Astrophysics 1: Planetary Astronomy* 3 hrs. 3 cr. Basic physics of plasma; orbital motions; the internal structure, atmospheres, magnetism and formation of the planets; dynamics of moons and rings; solar activity. *Co-req.Coreq. PHYS 351. 3 hours lecture.*

PHYS492 (Liberal Arts) *Astrophysics II: Stellar Astronomy* 3 hrs. 3 cr. 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. *Co-req.Coreq. PHYS 351. 3 hours lecture.*

PHYS493 (Liberal Arts) *Astrophysics III: Extragalactic Astronomy* 3 hrs. 3 cr. 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 radi *Preq. PHYS 351*

PHYS495 (Liberal Arts) *Independent Study* 6 hrs. 3 cr. Specific subject matter will reflect the interest of the student and the judgment of the physics faculty. A formal report on topic is required. *Preq. Permission of instructor prior to registration. 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 (Liberal Arts) *Independent Study* 6 hrs. 3 cr. Specific subject matter will reflect the interest of the student and the judgment of the physics faculty. A formal report on topic is required. *Preq. Permission of instructor prior to registration. 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.*

Political Science

POL101 (Liberal Arts) *Introduction to Politics* 3 hrs. 3 cr. Survey of the basic concepts of politics through the study of contemporary issues and problems.

POL103 (Liberal Arts) *Politics and Government in the United States* 3 hrs. 3 cr. 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 (Liberal Arts) *Introductory Topics in Political Science* 3 hrs. 3 cr. 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 (Liberal Arts) *Introductory Topics in Political Science* 3 hrs. 3 cr. 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 (Liberal Arts) *Comparative Politics* 3 hrs. 3 cr. Introduction to theories and techniques of comparative analysis; comparative study of political processes and performance in selected industrial and developing countries. *Preq. ENG 125.*

POL210 (Liberal Arts) *Introduction to Political Economy* 3 hrs. 3 cr. This course is an introduction to political economy philosophies and the economic principles that were developed in response to such philosophies. These principles will be used to promote understanding of how economic considerations constrain and influence political decisions and processes, resource allocation, and international relationships. *Preq. POL 103 and ECON 102.*

POL211 (Liberal Arts) *Intermediate Topics in Political Science* 3 hrs. 3 cr. Analysis of selected contemporary issues of broad local, national and international significance. *Preq. Three credits in Political Science.*

POL212 (Liberal Arts) *Intermediate Topics in Political Science* 3 hrs. 3 cr. Analysis of selected contemporary issues of broad local, national and international significance. *Preq. Three credits in Political Science.*

POL214 (Liberal Arts) *Racial and Ethnic Politics* 3 hrs. 3 cr. A comparative analysis of the politics of racial and ethnic groups in American society; problems of assimilation and alienation. *Preq. ENG 125, POL 103 or permission of instructor.*

POL221 (Liberal Arts) *Research Methods in Political Science* 3 hrs. 3 cr. This course emphasizes the use of qualitative methods of research in the field of political science and social science. *Preq. POL 103, ENG 125*

POL226 (Liberal Arts) *The U.S. Supreme Court* 3 hrs. 3 cr. 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. *Preq. ENG 125, POL 103 or permission of instructor.*

POL228 (Liberal Arts) *Public Administration in the Political Setting* 3 hrs. 3 cr. 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. *Preq. ENG 125, POL 103 or permission of instructor.*

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POL230 (Liberal Arts) Correctional Administration 4 hrs. 3 cr. 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. *Preq.* POL 228 or permission of instructor. 2 hours lecture, 2 hours field work. Not offered on a regular basis. Availability to be determined by the department.

POL231 (Liberal Arts) The Electoral Process 3 hrs. 3 cr. Analysis of the structure and function of political parties: organization and leadership, campaigns, public opinion, and electoral behavior. *Preq.* ENG 125, POL 103, or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.

POL233 (Liberal Arts) Introduction to Aviation Safety and Security 0 hrs. 3 cr. Analysis of threats, security and protection within the aviation industry, emphasizing a political and public policy perspective. Impact of international terrorism, hijacking, sabotage, bombings, theft, smuggling, and terminal invasion are examined to inc *Preq.* POL 103 and ENG 125 Hours to be arranged

POL241 (Liberal Arts) Basic Factors in International Politics 3 hrs. 3 cr. Survey of the international system; an assessment of main forces involved in conflict and resolution; major components in inter-nation bargaining. *Preq.* ENG 125. Offered at least once a year.

POL250 (Liberal Arts) Latin American Politics 3 hrs. 3 cr. 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. *Preq.* POL 202.

POL251 (Liberal Arts) Puerto Rican Politics 3 hrs. 3 cr. 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. *Preq.* POL 202. Not offered on a regular basis. Availability to be determined by the department.

POL252 (Liberal Arts) Cuban Politics 3 hrs. 3 cr. 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. *Preq.* POL 202. Not offered on a regular basis. Availability to be determined by the department.

POL256 (Liberal Arts) African Politics 3 hrs. 3 cr. 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. *Preq.* POL 202. Not offered on a regular basis. Availability to be determined by the department.

POL257 (Liberal Arts) Asian Politics 3 hrs. 3 cr. Political development in selected Asian nations; emphasis on the independence movements, nationalism, political parties, and pressure groups. *Preq.* POL 202. Not offered on a regular basis. Availability to be determined by the department.

POL258 (Liberal Arts) Middle East Politics 3 hrs. 3 cr. 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. *Preq.* POL 202. Not offered on a regular basis. Availability to be determined by the department.

POL259 (Liberal Arts) Modern Israel 3 hrs. 3 cr. Israeli society from pre-statehood to the present; emphasis on group politics, ideology, government, and foreign policy. *Preq.* POL 202. Not offered on a regular basis. Availability to be determined by the department.

POL267 (Liberal Arts) Classical Political Theory I: Plato to Machiavelli 3 hrs. 3 cr. The study of Greek, Roman, and Medieval political thought and their relationship to the societies from which they emerged. *Preq.* ENG 125

POL268 (Liberal Arts) Political Theory II: Machiavelli to Marx 3 hrs. 3 cr. The study of Western political thought from the 16th through the 19th centuries and its relationship to the capitalist societies from which it emerged. *Preq.* ENG 125

POL269 (Liberal Arts) American Political Thought 3 hrs. 3 cr. 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. *Preq.* POL 103. Not offered on a regular basis. Availability to be determined by the department.

POL271 (Liberal Arts) The Politics of Education 3 hrs. 3 cr. Educational decision-making in the political realm; the effect of community power structures, metropolitan organization, and state government on education policies. *Preq.* POL 101 or permission of instructor; no prerequisite for Education students. Not offered on a regular basis. Availability to be determined by the department.

POL273 (Liberal Arts) Politics of Aging 3 hrs. 3 cr. 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 (Liberal Arts) Introduction to Law 4 hrs. 4 cr. 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. *Preq.* ENG 125, Junior status or permission of instructor.

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POL280 (Liberal Arts) *Transportation: Planning, Finance, and Policy* 3 hrs. 3 cr. This course examines the field of transportation management in order to provide a basic understanding for students who wish to pursue careers in private or public transportation management. Course topics include: theory of transportation demand, transportation costs and investment planning, and current topics in transportation economics such as regulation-deregulation and social cost pricing. *Preq. POL 103 and POL 210.*

POL285 (Liberal Arts) *Urban Government in the United States* 3 hrs. 3 cr. 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. *Preq. ENG 125.*

POL305 (Liberal Arts) *Selected Legal Topics* 3 hrs. 3 cr. In-depth analysis of a single legal specialty in regard to substantive law and issues. *Preq. ENG 125 and three credits in Political Science.*

POL306 (Liberal Arts) *Selected Legal Topics* 3 hrs. 3 cr. In-depth analysis of a single legal specialty in regard to substantive law and issues. *Preq. ENG 125 and three credits in Political Science.*

POL309 (Liberal Arts) *Aviation Law* 3 hrs. 3 cr. An examination of governmental regulatory and legal functions unique to the aviation industry. The course includes an explication of manufacturing and operating regulations, aviators' certification, contracts, torts, insurance, and security. Additionally, *Preq. POL 103.*

POL310 (Liberal Arts) *Methods of Legal Research* 2 hrs. 2 cr. 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. *Preq. POL 275, Junior status or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.*

POL311 (Liberal Arts) *Advanced Topics in Political Science* 3 hrs. 3 cr. Analysis of selected contemporary issues of broad local, national and international significance. *Preq. ENG 125 and twelve credits in Political Science.*

POL312 (Liberal Arts) *Advanced Topics in Political Science* 3 hrs. 3 cr. Analysis of selected contemporary issues of broad local, national and international significance. *Preq. ENG 125 and twelve credits in Political Science.*

POL320 (Liberal Arts) *Risk Management for Public Policy* 3 hrs. 3 cr. This course prepares the participant for an understanding of the entire risk management process in government decision-making. It takes a process view of the inputs to risk management, risk management planning, risk identification, qualitative risk analysis, quantitative risk analysis, risk response planning, and risk monitoring and control. *Preq. POL 103 and POL 210.*

POL322 (Liberal Arts) *The Courts and Public Policy* 3 hrs. 3 cr. Political analysis of the relations between the judicial system and welfare groups, consumer protection groups, anti-pollution groups, labor unions and other interested groups. *Preq. POL 101, and POL 103 or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.*

POL327 (Liberal Arts) *Congress and the Presidency* 3 hrs. 3 cr. 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. *Preq. POL 101, and POL 103 or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.*

POL329 (Liberal Arts) *Public Administration: Management Processes* 3 hrs. 3 cr. 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. *Preq. POL 228.*

POL330 (Liberal Arts) *Public Policy Making* 3 hrs. 3 cr. 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. *Preq. POL 101, and POL 103 or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.*

POL332 (Liberal Arts) *Public Opinion and Political Behavior* 3 hrs. 3 cr. Public opinion and political participation; political socialization, attitude formation and change, political ideology, and voting behavior; role of the mass media. *Preq. POL 101, and POL 103 or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.*

POL340 (Liberal Arts) *American Capitalism: Political and Social Aspects* 3 hrs. 3 cr. 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. *Preq. POL 103. Offered at least once a year.*

POL346 (Liberal Arts) *American Foreign Policy* 3 hrs. 3 cr. American strategy in world politics; formulation, implementation, and effects of United States decision-making in the international arena. *Preq. POL 101, and POL 103 or permission of instructor.*

POL352 (Liberal Arts) *Russian Politics* 3 hrs. 3 cr. 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. *Preq. ENG 125 and POL 202. Not offered on a regular basis. Availability to be determined by the department.*

POL364 (Liberal Arts) *Protest Politics and the Novel* 3 hrs. 3 cr. 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. *Preq. POL 101 or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.*

POL366 (Liberal Arts) *Marxism* 3 hrs. 3 cr. Development of the political thought of Karl Marx from the 19th century through Leninism, Revisionism to the theories of modern Communism and Democratic Socialism. *Preq. POL 101 or permission of instructor. Offered alternate spring semesters.*

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POL367 (Liberal Arts) *Contemporary Political Theory* 3 hrs. 3 cr. 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. *Preq.* 6 Credits in Political Science Offered at least once a year.

POL373 (Liberal Arts) *Politics of the Environment* 3 hrs. 3 cr. Emergence of the environment as a salient political issue in American politics; federal environmental policies/state implementation; the national/global debate over environmental regulations. *Preq.* ENG 125 and POL 103. Not offered on a regular basis. Availability to be determined by the department.

POL375 (Liberal Arts) *Seminar-Internship in a Legal Office* 7 hrs. 4 cr. 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. *Preq.* POL 275, POL 310 and permission of instructor. 1 hour lecture, 6 hours field work. Not offered on a regular basis. Availability to be determined by the department.

POL385 (Liberal Arts) *New York City Government and Politics* 3 hrs. 3 cr. 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. *Preq.* POL 285.

POL386 (Liberal Arts) *Comparative Urban Government and Politics* 3 hrs. 3 cr. Urban governmental institutions and reforms in selected industrial and developing areas and the relationship to changing environmental situations. *Preq.* POL 202, POL 285. Not offered on a regular basis. Availability to be determined by the department. Offered at least once a year.

POL387 (Liberal Arts) *Political Processes in the American States* 3 hrs. 3 cr. 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. *Preq.* POL 103 or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.

POL392 *Aviation Internship in the Private Sector* 0 hrs. 3 cr. Supervised field experience in a corporate or other private sector setting in the aviation sector under the guidance of a faculty advisor in Political Science. *Preq.* POL 103, BUS 230, BUS 330 and permission of Department required Hours to be arranged

POL393 (Liberal Arts) *Seminar-Internship in New York City Government and Community Development* 12 hrs. 4 cr. 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. *Preq.* 9 credits in the Behavioral Sciences; minimum 2.75 G.P.A., and permission of instructor. 2 hours lecture, 8-10 hours field placement. For students interested in city governance/ community service.

POL394 (Liberal Arts) *Seminar-Internship in New York City Government and Community Development* 12 hrs. 4 cr. 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. *Preq.* 9 credits in the Behavioral Sciences; minimum 2.75 G.P.A., and permission of instructor. 2 hours lecture, 8-10 hours field placement. For students interested in city governance/ community service.

POL395 (Liberal Arts) *Seminar-Internship in Preventative Law for the Elderly* 12 hrs. 4 cr. Study of theoretical and practical aspects of elder law and case development coupled with structured field work in an agency or senior citizen center. *Preq.* 15 credits in the Behavioral Sciences; minimum 2.75 G.P.A., and permission of instructor. 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* 1 hrs. 15 cr. 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. *Preq.* 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. 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* 1 hrs. 6 cr. 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. *Preq.* 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. 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.

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POL402 (Liberal Arts) Aviation Policy Seminar 3 hrs. 3 cr. The course focuses on the management analysis and decision-making process in the running of an aviation enterprise in the contemporary business environment. The course relies heavily on an airline simulation model wherein the student participants, acting *Preq. ENG 125, POL 228 and BUS 335. This is the capstone course for the Aviation Management major.*

POL425 (Liberal Arts) Seminar in Civil Liberties 0 hrs. 3 cr. 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. *Preq. 12 credits in Political Science or permission of instructor. Hours arranged. Not offered on a regular basis. Availability to be determined by the department.*

POL444 (Liberal Arts) Seminar in Comparative Foreign Policies 0 hrs. 3 cr. Scope, method, and theory of foreign policy-making; the foreign policies of major actors and blocs of actors in the international political system. *Preq. POL 202 and 12 credits in Political Science or permission of instructor. Hours arranged. Not offered on a regular basis. Availability to be determined by the department.*

POL453 (Liberal Arts) Seminar in Global Change 0 hrs. 3 cr. Global capital development and its ramifications; the multinational corporation and the national state; the processes mobilization and democratization. *Preq. ENG 125 and 12 credits in Political Science inclusive of POL 202. Hours arranged. Not offered on a regular basis. Availability to be determined by the department.*

POL480 (Liberal Arts) Seminar in Contemporary Urban Problems 0 hrs. 3 cr. 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. *Preq. 12 credits in Political Science or permission of instructor. Hours arranged. Not offered on a regular basis. Availability to be determined by the department.*

POL490 (Liberal Arts) Directed Reading and Research 0 hrs. 3 cr. 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. *Preq. 12 credits in Political Science and permission of instructor. Hours arranged.*

POL491 (Liberal Arts) Directed Reading and Research 0 hrs. 3 cr. 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. *Preq. 12 credits in Political Science and permission of instructor. Hours arranged.*

POL492 (Liberal Arts) Directed Reading and Research 0 hrs. 3 cr. 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. *Preq. 12 credits in Political Science and permission of instructor. Hours arranged.*

POL493 (Liberal Arts) Directed Reading and Research 0 hrs. 3 cr. 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. *Preq. 12 credits in Political Science and permission of instructor. Hours arranged.*

Puerto Rican Studies

PRST241 (Liberal Arts) Puerto Ricans in New York 3 hrs. 3 cr. The life styles of Puerto Ricans as responses to the social, political, and economic conditions of New York. *Preq. Completion of Behavioral Sciences Area Requirements. Not offered on a regular basis. Availability to be determined by the department.*

PRST242 (Liberal Arts) Puerto Rican Society and Culture I 3 hrs. 3 cr. 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. *Preq. Completion of Behavioral Sciences Area Requirements. Not offered on a regular basis. Availability to be determined by the department.*

PRST243 (Liberal Arts) Puerto Rican Society and Culture II 3 hrs. 3 cr. The impact of the United States; the culture, values, and social structure of Puerto Rico as a response to the effects of American domination. *Preq. Completion of Behavioral Sciences Area Requirements. Not offered on a regular basis. Availability to be determined by the department.*

Psychology

PSY102 (Liberal Arts) Introductory Psychology 3 hrs. 3 cr. 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.*

PSY200 (Liberal Arts) Intermediate Seminar 3 hrs. 3 cr. Selected topics in Psychology. *Preq. PSY 102. 1 hour lecture, 2 hours recitation. Specific areas will be chosen and will reflect student interest.*

PSY214 (Liberal Arts) Lifespan Development for Health Professions 3 hrs. 3 cr. Human development from birth through the end of life. Review of theories of human growth and development with emphasis on a lifespan developmental perspective. Topics include intellectual growth, personal and social development, the relationship between physical and mental development, and major developmental tasks at each stage of the life cycle. Application to clinical issues will be emphasized. *Preq. PSY 102. Students may be required to go on field trips.*

PSY215 (Liberal Arts) Human Development I: Infancy/Childhood 3 hrs. 3 cr. 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. *Preq. PSY 102*

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PSY216 (Liberal Arts) *Human Development II: Adolescence/Maturity* 3 hrs. 3 cr. 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. *Preq. PSY 215.*

PSY217 (Liberal Arts) *Psychology for Parents* 3 hrs. 3 cr. 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. *Preq. PSY 102.*

PSY219 (Liberal Arts) *Psychology of Terrorism* 3 hrs. 3 cr. This course will consider the definition and various forms of terrorism, as well as the strengths and weaknesses of terrorism typologies. Various forms of political, religious, and cultural terrorism will be examined, as well as their causes. *Preq. ENG 125 and PSY 102*

PSY225 (Liberal Arts) *Psychology of Learning Disabilities* 3 hrs. 3 cr. Scope and origins of learning disorders; current views, theories, and research concerned with the etiology and remediation of specific learning disorders. *Preq. PSY 102. Field trips may be required.*

PSY236 (Liberal Arts) *The Psychology of Women* 3 hrs. 3 cr. 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. *Preq. Psychology 102*

PSY250 (Liberal Arts) *Practicum in Interviewing* 5 hrs. 4 cr. 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. *Preq. PSY 102 and permission of department. 2 hours lecture, 1 hour recitation, 2 hours laboratory.*

PSY251 (Liberal Arts) *Organizational Behavior* 3 hrs. 3 cr. 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. *Preq. PSY 102*

PSY252 (Liberal Arts) *Leadership, Motivation and Power* 3 hrs. 3 cr. Theories of leadership; effect of leadership on individual and group motivation; special emphasis on the realities of power in management. *Preq. PSY 102 Not offered on a regular basis. Availability to be determined by the department.*

PSY253 (Liberal Arts) *Industrial/Organizational Psychology* 3 hrs. 3 cr. 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. *Preq. PSY 102. Offered Fall semesters.*

PSY254 (Liberal Arts) *Conflict Resolution and Management* 3 hrs. 3 cr. Analysis of emerging conflicts within organizations; attitudes towards such conflicts; exploration of varied approaches to conflict and resolution. *Preq. PSY 102. Not offered on a regular basis. Availability to be determined by the department.*

PSY255 (Liberal Arts) *Psychology of Advertising and Marketing Communications* 3 hrs. 3 cr. Psychological analysis of messages communication through various media; the interplay between theories of motivation and the satisfaction and manipulation of human needs and desires. *Preq. PSY 102. Not offered on a regular basis. Availability to be determined by the department.*

PSY265 (Liberal Arts) *Introduction to Communication Disorders* 4 hrs. 4 cr. A survey of the diagnosis and treatment of speech, language and hearing disorders resulting from physical and sensory impairments in children and adults. *Preq. PSY 102.*

PSY280 (Liberal Arts) *Psychology of Geriatrics* 3 hrs. 3 cr. 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. *Preq. PSY 102. Field trips to selected institutions concerned with geriatric care may be required.*

PSY282 (Liberal Arts) *Psychology of Vocational Rehabilitation* 3 hrs. 3 cr. Basic concepts in the philosophy, historical development, principles, and practices of vocational rehabilitation. *Preq. PSY 102. Not offered on a regular basis. Availability to be determined by the department.*

PSY283 (Liberal Arts) *The Psychology of Death and Dying* 3 hrs. 3 cr. 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. *Preq. PSY 102.*

PSY289 (Liberal Arts) *Psychology of Addiction* 3 hrs. 3 cr. 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. *Preq. PSY 102.*

PSY290 *Field Work* 1 hrs. 1 cr. Supervised experience in the field under the guidance of faculty advisor in Psychology. *Preq. PSY 102 and permission of the field work supervisor. Hours arranged. PSY 290 to PSY 295 may be taken concurrently.*

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PSY291 *Field Work 1 hrs. 1 cr.* Supervised experience in the field under the guidance of faculty advisor in Psychology. *Preq. PSY 102 and permission of the field work supervisor. Hours arranged. PSY 290 to PSY 295 may be taken concurrently.*

PSY292 *Field Work 1 hrs. 1 cr.* Supervised experience in the field under the guidance of faculty advisor in Psychology. *Preq. PSY 102 and permission of the field work supervisor. Hours arranged. PSY 290 to PSY 295 may be taken concurrently.*

PSY293 *Field Work 1 hrs. 1 cr.* Supervised experience in the field under the guidance of faculty advisor in Psychology. *Preq. PSY 102 and permission of the field work supervisor. Hours arranged. PSY 290 to PSY 295 may be taken concurrently.*

PSY294 *Field Work 1 hrs. 1 cr.* Supervised experience in the field under the guidance of faculty advisor in Psychology. *Preq. PSY 102 and permission of the field work supervisor. Hours arranged. PSY 290 to PSY 295 may be taken concurrently.*

PSY295 *Field Work 1 hrs. 1 cr.* Supervised experience in the field under the guidance of faculty advisor in Psychology. *Preq. PSY 102 and permission of the field work supervisor. Hours arranged. PSY 290 to PSY 295 may be taken concurrently.*

PSY300 (Liberal Arts) *Interpersonal Skills for Community Service 1 hrs. 2 cr.* 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. *Preq. 6 credits in Psychology; ENG 125. 1 hour lecture, 2 hours laboratory.*

PSY301 (Liberal Arts) *Practicum in Community Service 4 hrs. 2 cr.* Application of acquired skills in interpersonal and psychosocial communication in an applied setting under the supervision of a faculty advisor in Psychology. *Preq. 6 credits in Psychology; ENG 125. 4 hours field work.*

PSY302 (Liberal Arts) *Practicum in Community Service 4 hrs. 2 cr.* Application of acquired skills in interpersonal and psychosocial communication in an applied setting under the supervision of a faculty advisor in Psychology. *Preq. PSY 301. 4 hours field work.*

PSY303 (Liberal Arts) *Practicum in Community Service 4 hrs. 2 cr.* Application of acquired skills in interpersonal and psychosocial communication in an applied setting under the supervision of a faculty advisor in Psychology. *Preq. PSY 301. 4 hours field work.*

PSY311 (Liberal Arts) *Psychology of the Religious Experience 3 hrs. 3 cr.* 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. *Preq. 6 credits in Psychology; ENG 125.*

PSY313 (Liberal Arts) *Psychology of Sensation and Perception 4 hrs. 3 cr.* Consideration of basic sensory and perceptual processes. Extensive experience with computerized and hands-on laboratory experiments. Students will conduct individual research projects. *Preq. 6 credits in Psychology; ENG 125. 2 hours lecture, 2 hours laboratory. Field trips may be required.*

PSY319 (Liberal Arts) *Cognitive Psychology 4 hrs. 3 cr.* In-depth examination of human problem solving, concept formation, creativity, intelligence, perception, attention, memory and mnemonics, language, knowledge representation, and artificial intelligence. *Preq. 6 credits in Psychology; ENG 125. 2 hours lecture, 2 hours laboratory.*

PSY321 (Liberal Arts) *Psychology of Learning Laboratory 4 hrs. 3 cr.* 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. *Preq. 6 credits in Psychology, ENG 125. Students will conduct weekly supervised laboratory exercises. 2 lecture hours, 2 laboratory hours.*

PSY326 (Liberal Arts) *Statistical Methods in Psychology 4 hrs. 3 cr.* Descriptive and inferential statistics in psychological research. *Preq. 6 credits in Psychology; ENG 125, MATH 111 or MATH 121. 2 hours lecture, 2 hours laboratory.*

PSY327 (Liberal Arts) *Advanced Statistical Methods 4 hrs. 3 cr.* 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. *Preq. PSY 326. 2 hours lecture, 2 hours laboratory.*

PSY328 (Liberal Arts) *Human Factors Psychology 3 hrs. 3 cr.* The discipline of human factors psychology considers the design of equipment and work and living environments from the perspective of the person who will use them. This course will take an applied cognitive psychology approach to human factors and study w *Preq. ENG 125, PSY 102 and PSY 326 or ECON 220*

PSY330 (Liberal Arts) *Foundations of Research in Psychology 3 hrs. 3 cr.* 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. *Preq. 6 credits in Psychology. WRIT 301, WRIT 302 or WRIT 303 this is a writing intensive course.*

PSY332 (Liberal Arts) *Social Psychology 3 hrs. 3 cr.* 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. *Preq. 6 credits in Psychology; ENG 125. Field trips may be required.*

PSY333 (Liberal Arts) *Black Psychology 3 hrs. 3 cr.* 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. *Preq. 6 credits in Psychology; ENG 125.*

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PSY334 (Liberal Arts) *Personality* 3hrs. 3cr. 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. *Preq. 6 credits in Psychology; ENG 125.*

PSY335 (Liberal Arts) *Exceptional Child* 3 hrs. 3 cr. 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. *Preq. PSY 215 and ENG 125. Not offered on a regular basis. Availability to be determined by the department.*

PSY337 (Liberal Arts) *Child Abuse and Neglect* 3 hrs. 1 cr. 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. *Preq. PSY 215 and ENG 125. 3 hours for 5 weeks. Not offered on a regular basis. Availability to be determined by the department.*

PSY338 (Liberal Arts) *Abnormal Psychology* 3 hrs. 3 cr. 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. *Preq. 6 credits in Psychology; ENG 125.*

PSY340 (Liberal Arts) *Clinical Health Psychology* 3 hrs. 3 cr. 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. *Preq. 6 credits in Psychology; ENG 125.*

PSY342 *Practicum in Group Dynamics* 5 hrs. 4 cr. 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. *Preq. 6 credits in Psychology; ENG 125. 1 hour lecture, 1 hour recitation, 3 hours laboratory. Field trips may be required.*

PSY352 (Liberal Arts) *Psychological Assessment* 3 hrs. 3 cr. 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. *Preq. PSY 326, ENG 125.*

PSY353 (Liberal Arts) *Approaches to Psychotherapy* 3 hrs. 3 cr. Cognitive, behavioral, humanistic, psychopharmacological, and psychodynamic approaches to human behavior change. *Preq. 6 credits in Psychology; ENG 125.*

PSY362 (Liberal Arts) *Physiological Psychology* 3 hrs. 3 cr. 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. *Preq. 6 credits in Psychology; ENG 125.*

PSY370 (Liberal Arts) *Psychology of Consciousness* 3 hrs. 3 cr. 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. *Preq. 6 credits in Psychology; ENG 125.*

PSY381 (Liberal Arts) *Psychological Consequences of Chronic Disability* 4 hrs. 3 cr. 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. *Preq. PSY102, ENG 125, Junior status. 3 lecture hours, 1 laboratory hour.*

PSY383 (Liberal Arts) *Behavior Modification* 3 hrs. 3 cr. 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. *Preq. 6 credits in Psychology; ENG 125. 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* 7 hrs. 4 cr. Application of acquired behavior modification techniques within an applied setting (e.g., hospital, clinic, school, etc.) under the direct supervision of the instructor. *Preq. PSY 383 Limited enrollment. 6 hours supervised field work, 1 hour recitation. Not offered on a regular basis. Availability to be determined by the department.*

PSY387 (Liberal Arts) *Biofeedback* 3 hrs. 3 cr. 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. *Preq. 6 credits in Psychology, ENG 125.*

PSY390 (Liberal Arts) *Community Psychology* 3 hrs. 3 cr. An in-depth examination of the theoretical foundations of Community Psychology and the principles of action search. Topics covered will include social and environmental risk factors for mental health problems and prevention of mental disorders and social *Preq. ENG 125 and 6 credits in Psychology.*

PSY401 (Liberal Arts) *History of Psychology* 3 hrs. 3 cr. Development of contemporary psychology as a science including such systemic approaches as structuralism, functionalism, behaviorism, Gestalt psychology, psychoanalysis, and cognitive and evolutionary psychology. *Preq. 9 credits in Psychology; WRIT 301 or WRIT 302 or WRIT 303.*

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PSY430 (Liberal Arts) *Experimental Methods* 6 hrs. 4 cr. 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. *Preq.* PSY 221, PSY 326, and Senior status. 2 hours lecture, 4 hours laboratory.

PSY454 (Liberal Arts) *Seminar in Organizational Psychology* 3 hrs. 3 cr. 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. *Preq.* 9 credits in Psychology; WRIT 301 or WRIT 302 or WRIT 303. Not offered on a regular basis. Availability to be determined by the department. Field trips may be required.

PSY480 (Liberal Arts) *Advanced Seminar in Psychology* 3 hrs. 3 cr. Selected advanced topics in psychology. *Preq.* 9 credits in Psychology; WRIT 301 or WRIT 302 or WRIT 303.

PSY481 (Liberal Arts) *Advanced Seminar in Psychology* 3 hrs. 3 cr. Selected advanced topics in psychology. *Preq.* 9 credits in Psychology; WRIT 301 or WRIT 302 or WRIT 303.

PSY482 (Liberal Arts) *Advanced Seminar in Psychology* 3 hrs. 3 cr. Selected advanced topics in psychology. *Preq.* 9 credits in Psychology; WRIT 301 or WRIT 302 or WRIT 303.

PSY490 (Liberal Arts) *Independent Study and Experimental Research* 0 hrs. 3 cr. Investigation of a psychology problem, determined by the student in consultation with a member of the Psychology faculty. *Preq.* 9 credits in Psychology; WRIT 301 or WRIT 302 or WRIT 303, and permission of a Psychology advisor. Hours arranged. Field trips may be required.

PSY491 (Liberal Arts) *Independent Study and Experimental Research* 0 hrs. 3 cr. Investigation of a psychology problem, determined by the student in consultation with a member of the Psychology faculty. *Preq.* 9 credits in Psychology; WRIT 301 or WRIT 302 or WRIT 303, and permission of a Psychology advisor. Hours arranged. Field trips may be required.

PSY492 (Liberal Arts) *Independent Study and Experimental Research* 0 hrs. 3 cr. Investigation of a psychology problem, determined by the student in consultation with a member of the Psychology faculty. *Preq.* 9 credits in Psychology; WRIT 301 or WRIT 302 or WRIT 303, and permission of a Psychology advisor. Hours arranged. Field trips may be required.

PSY493 (Liberal Arts) *Independent Study and Experimental Research* 0 hrs. 3 cr. Investigation of a psychology problem, determined by the student in consultation with a member of the Psychology faculty. *Preq.* 9 credits in Psychology; WRIT 301 or WRIT 302 or WRIT 303, and permission of a Psychology advisor. Hours arranged. Field trips may be required.

PSY494 (Liberal Arts) *Independent Study and Experimental Research* 0 hrs. 3 cr. Investigation of a psychology problem, determined by the student in consultation with a member of the Psychology faculty. *Preq.* 9 credits in Psychology; WRIT 301 or WRIT 302 or WRIT 303, and permission of a Psychology advisor. Hours arranged. Field trips may be required.

PSY495 (Liberal Arts) *Independent Study and Experimental Research* 0 hrs. 3 cr. Investigation of a psychology problem, determined by the student in consultation with a member of the Psychology faculty. *Preq.* 9 credits in Psychology; WRIT 301 or WRIT 302 or WRIT 303, and permission of a Psychology advisor. Hours arranged. Field trips may be required.

Russian

RUS101 (Liberal Arts) *Elementary Russian I* 4 hrs. 4 cr. Basic principles of a beginner's course; designed to give the foundations of language. *Preq.*

RUS102 (Liberal Arts) *Elementary Russian II* 4 hrs. 4 cr. Continuation of the beginner's course; more complex grammatical structures, integrated readings and further practice in conversation. *Preq.* RUS 101.

Science Education

SCED570 *Advanced Methods in High School Science Instruction* 7 hrs. 4 cr. 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. *Preq.* Acceptance in Project Leadership. 2 hours lecture, 5 hours laboratory. The subject area of concentration will be in one of the following: biology; chemistry; earth science; or physics.

SCED571 *Field Activities in Science Education* 6 hrs. 2 cr. 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. *Preq.* SCIEN 570. 6 hours field work.

SCED572 *Survey of Physical Science Topics for Elementary Teachers* 4 hrs. 3 cr. 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. *Preq.* Acceptance in Project STEPPS (Science Teacher Enhancement Program in Physical Science) or permission of instructor 2 hours lecture, 2 hours laboratory. This course will be offered on a Pass/Fail basis.

SCED573 *Practicum in Physical Science for Elementary Teachers* 4 hrs. 3 cr. 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. *Preq.* SCIEN 572. 2 hours lecture, 2 hours laboratory. This course will be offered on Pass/Fail basis.

Social Work

SCWK101 *Introduction to Social Work* 3 hrs. 3 cr. 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.

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SCWK203 *Social Welfare Programs and Policies* 3 hrs. 3 cr. 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. *Preq.* SCWK 101, POL 103, SOC 101 or ENG 125.

SCWK293 *Social Work Practicum* 8 hrs. 3 cr. 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. *Preq.* SCWK 101; PSY 215, SCWK 203, ENG 125. 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* 4 hrs. 3 cr. 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. *Preq.* SCWK 203, SCWK 293; AC 101, ANTH 101, PSY 216. 2 hours lecture, 2 hours laboratory.

SCWK330 *Social Welfare Problems and Issues* 3 hrs. 3 cr. 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. *Preq.* Junior status. *Not offered on a regular basis. Availability to be determined by the department.*

SCWK350 *Social Research I* 4 hrs. 3 cr. 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. *Preq.* SCWK 300. 2 hours recitation, 2 hours laboratory.

SCWK360 *Human Behavior and the Social Environment* 3 hrs. 3 cr. Integration of social science knowledge with the generalist model of practice to support intervention. Emphasis on human diversity and oppression. *Preq.* Admission into the Social Work Program, SCWK 300.; Two Group II courses and SCWK 350.

SCWK370 *Generalist Social Work Practice II* 3 hrs. 3 cr. 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. *Preq.* SCWK 350, SCWK 360, WRIT 303.

SCWK400 *Generalist Social Work Practice III* 3 hrs. 3 cr. 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. *Preq.* SCWK 350, SCWK 360, SCWK 370. *This is a writing intensive course.*

SCWK410 *Field Placement and Seminar I* 16 hrs. 6 cr. Supervised field experience. On site visits by Social Work faculty. Integration of field and classroom learning in a weekly on-campus seminar. *Preq.* Acceptance into Field Placement, SCWK 360, SCWK 370.; SCWK 400. 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 hrs. 3 cr. 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. *Preq.* SCWK 350.; SCWK 400, SCWK 410.

SCWK480 *Social Welfare Policy* 3 hrs. 3 cr. 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. *Preq.* SCWK 410, SCWK 470. *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, Gradebook, 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* 16 hrs. 6 cr. Continuation of supervised field experience. On site visits by Social Work faculty. Integration of field and classroom learning in a weekly, on-campus seminar. *Preq.* SCWK 410, SCWK 470 & SCWK 480. 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.*

Student Development

SD101 ✘ *Developing Individual Life Styles* 1 hrs. 1 cr. 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* 3 hrs. 1 cr. Supervised experience in the application of various learning strategies and techniques. *Preq.* Students must obtain permission from their department chair in order to register. 3 hours laboratory. *Pass/No Credit. Offered by every department.*

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SD103 ✘ *Practicum in Learning Techniques and Problem-Solving 3 hrs. 1 cr.* Supervised experience in the application of various learning strategies and techniques. *Preq. Students must obtain permission from their department chair in order to register. 3 hours laboratory. Pass/No Credit. Offered by every department.*

SD104 ✘ *Practicum in Learning Techniques and Problem-Solving 3 hrs. 1 cr.* Supervised experience in the application of various learning strategies and techniques. *Preq. Students must obtain permission from their department chair in order to register. 3 hours laboratory. Pass/No Credit. Offered by every department.*

SD105 ✘ *Practicum in Learning Techniques and Problem-Solving 3 hrs. 1 cr.* Supervised experience in the application of various learning strategies and techniques. *Preq. Students must obtain permission from their department chair in order to register. 3 hours laboratory. Pass/No Credit. Offered by every department.*

SD110 ✘ *Developing Success in College 2 hrs. 2 cr.* 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 hrs. 2 cr.* 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.*

SEEK Counseling Seminar

SKCS102 ✘ *Psychological, Social and Academic Development 2 hrs. 2 cr.* 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. *Preq. Entering SEEK Freshmen*

SKCS103 ✘ *Developing Self Awareness for Academic Success 2 hrs. 2 cr.* 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 *Preq. SKCS 102 or AD 102*

SKCS110 ✘ *Developing Coping Strategies for Academic Success 2 hrs. 1 cr.* An examination of human behavior as it relates to developing the appropriate coping strategies, learning techniques and study skills needed to promote academic success. *Not open to students with credit in SD 101 or SD 110. Open only to students in the SEEK Program*

Sociology

SOC101 (Liberal Arts) Introductory Sociology 3 hrs. 3 cr. 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 (Liberal Arts) Sociological Analysis 3 hrs. 3 cr. Introduction to basic sociological concepts and perspectives with an emphasis on their uses in sociological research and theory. *Preq. SOC 101, ENG 125, or 9 credits in Behavioral Sciences. Primarily designed for sociology majors. This is a Writing Intensive Course.*

SOC202 (Liberal Arts) Major Ideas and Issues in Education 3 hrs. 3 cr. 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. *Preq. ENG 125. The student will be encouraged to develop his/her own unique philosophy of education. Includes fieldwork. Required for all teacher education students.*

SOC220 (Liberal Arts) Social Research I 4 hrs. 3 cr. 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. *Preq. SOC 101. 2 hours recitation, 2 hours laboratory.*

SOC226 (Liberal Arts) Survey Research I: Planning and Design of Research 6 hrs. 4 cr. 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. *Preq. Sophomore status, SOC 220, or permission of instructor. 2 hours lecture, 4 hours laboratory. Field work required. Not offered on a regular basis. Availability to be determined by the department.*

SOC227 (Liberal Arts) Survey Research II: Data Collection, Processing and Analysis 6 hrs. 4 cr. 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. *Preq. SOC 226 or permission of instructor. 2 hours lecture, 4 hours laboratory. Field work required. Not offered on a regular basis. Availability to be determined by the department.*

SOC231 (Liberal Arts) Sociology of Small Groups 3 hrs. 3 cr. 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. *Preq. SOC 101. Not offered on a regular basis. Availability to be determined by the department.*

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SOC235 (Liberal Arts) *Ethnicity* 3 hrs. 3 cr. 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. *Preq. SOC 101. Not offered on a regular basis. Availability to be determined by the department.*

SOC236 (Liberal Arts) *Sociology of Aging* 3 hrs. 3 cr. 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. *Preq. SOC 101 or permission of instructor.*

SOC238 (Liberal Arts) *Industrial Sociology* 3 hrs. 3 cr. Comparative view of industrial systems; focus on work roles, collective bargaining, and the relationships of industry to other social institutions and to stratification. *Preq. SOC 101. Not offered on a regular basis. Availability to be determined by the department.*

SOC239 (Liberal Arts) *Sociology of Work* 3 hrs. 3 cr. Occupational institutions, recruitment, training, and careers; relation between work and other social roles; changes in the composition of the labor force. *Preq. SOC 101*

SOC243 (Liberal Arts) *Sociology of Leisure* 3 hrs. 3 cr. An analysis of the origins and uses of time and of its relationship to other institutions. *Preq. SOC 101. Not offered on a regular basis. Availability to be determined by the department.*

SOC245 (Liberal Arts) *Medical Sociology* 3 hrs. 3 cr. Normative aspects of health and illness, diagnosis, treatment and rehabilitation in the contexts of community and group organization. *Preq. SOC 101 or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.*

SOC247 (Liberal Arts) *Family and Kinship* 3 hrs. 3 cr. 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. *Preq. SOC 101. Not offered on a regular basis. Availability to be determined by the department.*

SOC252 (Liberal Arts) *Social Problems* 3 hrs. 3 cr. Major and persistent social concerns; the contribution of sociological theory in tracing their sources, effects, and possible modes of control. *Preq. SOC 101 or other introductory courses in the Behavioral Sciences. Not offered on a regular basis. Availability to be determined by the department.*

SOC255 (Liberal Arts) *Deviance and Social Control* 3 hrs. 3 cr. Various forms of social deviance and the processes established for their control; particular emphasis on criminology. *Preq. SOC 101. Not offered on a regular basis. Availability to be determined by the department.*

SOC271 (Liberal Arts) *Sociology of Education* 3 hrs. 3 cr. 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. *Preq. SOC 101; no prerequisite for Education students. Not offered on a regular basis. Availability to be determined by the department.*

SOC289 (Liberal Arts) *Urban Sociology* 3 hrs. 3 cr. 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. *Preq. SOC 101. Not offered on a regular basis. Availability to be determined by the department.*

SOC290 *Field Work and Research* 0 hrs. 3 cr. 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 *Preq. 200 level Sociology course related to the area of the field study of research and permission of instructor. Hours arranged. Not offered on a regular basis. Availability to be determined by the department.*

SOC291 *Field Work and Research* 0 hrs. 2 cr. Not more than 6 credits from the Field Work and Research series (290, 291, 292, 390, 391, 392) credited toward Sociology major requirements. *Preq. 200 level Sociology course related to the area of the field study of research and permission of instructor. Hours arranged. Not offered on a regular basis. Availability to be determined by the department.*

SOC292 *Field Work and Research* 0 hrs. 1 cr. Not more than 6 credits from the Field Work and Research series (290, 291, 292, 390, 391, 392) credited toward Sociology major requirements. *Preq. 200 level Sociology course related to the area of the field study of research and permission of instructor. Hours arranged. Not offered on a regular basis. Availability to be determined by the department.*

SOC312 (Liberal Arts) *Sociological Theory* 3 hrs. 3 cr. Major sociological theories from the 19th century classical works to the present schools of thoughts with a focus on Marx, Durkheim, Weber and selected contemporary theorists. *Preq. SOC 201 and WRIT 301 or WRIT 302 or WRIT 303. This is a Writing Intensive Course.*

SOC314 (Liberal Arts) *Social Structure and Personality* 3 hrs. 3 cr. 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. *Preq. SOC 101 and completion of Behavioral Sciences distribution requirements. Not offered on a regular basis. Availability to be determined by the department.*

SOC321 (Liberal Arts) *Social Research Methods II* 3 hrs. 3 cr. 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. *Preq. Junior status and 12 credits in Sociology, including SOC 220.*

SOC325 (Liberal Arts) *Field Research Practicum* 6 hrs. 4 cr. Practice in conduct of field research including the techniques of participant observation and interviewing, and interpretation of data collected by these means. *Preq. Junior status, 12 credits in Sociology, and permission of instructor. Not offered on a regular basis. Availability to be determined by the department.*

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SOC333 (Liberal Arts) Social Stratification 3 hrs. 3 cr. Social class and status in the United States; the causes and consequences of the distribution of power. *Preq. SOC 101 and completion of Behavioral Sciences distribution requirements.*

SOC334 (Liberal Arts) Complex Organizations 3 hrs. 3 cr. 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. *Preq. SOC 101 and completion of Behavioral Sciences distribution requirements. Not offered on a regular basis. Availability to be determined by the department.*

SOC338 (Liberal Arts) Sociology of Gender and Sexuality 3 hrs. 3 cr. The social, cultural, and historical construction of gender and sexuality; gender and sexual orientation as a mechanism of stratification; the effects of sexism and heterosexism; feminist theory, queer theory, and the intersection of gender, race, class, and nation. *Preq. SOC 101*

SOC341 (Liberal Arts) Political Sociology 3 hrs. 3 cr. Power and influence; the role of legitimation; the emergence, nature, and exercise of leadership; and political socialization. *Preq. SOC 101 and completion of Behavioral Sciences distribution requirements. Not offered on a regular basis. Availability to be determined by the department.*

SOC342 (Liberal Arts) Sociology of Higher Education 3 hrs. 3 cr. Institutional and comparative analysis of higher education with particular emphasis on relationship between higher education and economic, political, cultural, and demographic structures and processes. *Preq. SOC 101 and completion of Behavioral Sciences distribution requirements. Not offered on a regular basis. Availability to be determined by the department.*

SOC344 (Liberal Arts) Sociology of Religion 3 hrs. 3 cr. 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. *Preq. SOC 101 and completion of Behavioral Sciences distribution requirements. Not offered on a regular basis. Availability to be determined by the department.*

SOC346 (Liberal Arts) Selected Topics in Social Institutions 3 hrs. 3 cr. Social institutions of current concern not covered by other courses. Topics vary from semester to semester and announced prior to registration. *Preq. SOC 101 and completion of Behavioral Sciences distribution requirements. Not offered on a regular basis. Availability to be determined by the department.*

SOC347 (Liberal Arts) Selected Topics in Social Institutions 3 hrs. 3 cr. Social institutions of current concern not covered by other courses. Topics vary from semester to semester and announced prior to registration. *Preq. SOC 101 and completion of Behavioral Sciences distribution requirements. Not offered on a regular basis.*

SOC348 (Liberal Arts) Selected Topics in Social Institutions 3 hrs. 3 cr. Social institutions of current concern not covered by other courses. Topics vary from semester to semester and announced prior to registration. *Preq. SOC 101 and completion of Behavioral Sciences distribution requirements. Not offered on a regular basis.*

SOC354 (Liberal Arts) Criminal Justice Administration 3 hrs. 3 cr. Law enforcement agencies, courts, prisons and rehabilitation agencies, their structure, personnel, and impact on communities and “clients,” problems of reform and change. *Preq. SOC 101 and SOC 255, or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.*

SOC364 (Liberal Arts) Social Change 3 hrs. 3 cr. 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. *Preq. SOC 101 and completion of Behavioral Sciences distribution requirements.*

SOC365 (Liberal Arts) Collective Behavior 3 hrs. 3 cr. Causes of major forms of collective behavior, e.g., riots, panics, social movements; the impact of collective behavior on society. *Preq. SOC 101 and completion of Behavioral Sciences distribution requirements. Not offered on a regular basis. Availability to be determined by the department.*

SOC366 (Liberal Arts) Sociology of Modernization and Development 3 hrs. 3 cr. 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. *Preq. SOC 101 and completion of Behavioral Sciences distribution requirements.*

SOC381 (Liberal Arts) Population Problems 3 hrs. 3 cr. Major population trends; social and psychological factors associated with population changes; basic concepts, techniques, and data employed in population analysis. *Preq. SOC 101 and completion of Behavioral Sciences distribution requirements. Not offered on a regular basis. Availability to be determined by the department.*

SOC390 Field Work and Research 3 hrs. 3 cr. Supervised experience in the field or independent research under the guidance of an instructor in Sociology. *Preq. Junior status, 9 credits in Sociology including SOC 101 and permission of instructor. Hours arranged. Not offered on a regular basis. Availability to be determined by the department.*

SOC391 Field Work and Research 2 hrs. 2 cr. Supervised experience in the field or independent research under the guidance of an instructor in Sociology. *Preq. Junior status, 9 credits in Sociology including SOC 101 and permission of instructor. Hours arranged. Not offered on a regular basis. Availability to be determined by the department.*

SOC392 Field Work and Research 1 hrs. 1 cr. Supervised experience in the field or independent research under the guidance of an instructor in Sociology. *Preq. Junior status, 9 credits in Sociology including SOC 101 and permission of instructor. Hours arranged. Not offered on a regular basis. Availability to be determined by the department.*

*Courses which are liberal arts for all students are identified as: (Liberal Arts)

** Courses identified NOT Liberal Arts in addition to courses identified with an ✖ CANNOT be used as Liberal Arts by ACCOUNTING MAJORS.

SOC401 (Liberal Arts) Seminar: Advanced Topics in Sociology 3 hrs. 3 cr. Advanced work in selected substantive areas in Sociology: social organization, social institutions, demography, urban sociology. *Preq. Senior status and 15 credits in Sociology or related Behavioral Sciences discipline, and permission of instructor. 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 (Liberal Arts) Seminar: Advanced Topics in Sociology 3 hrs. 3 cr. Advanced work in selected substantive areas in Sociology: social organization, social institutions, demography, urban sociology. *Preq. Senior status and 15 credits in Sociology or related Behavioral Sciences discipline, and permission of instructor. 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 (Liberal Arts) Seminar: Advanced Topics in Sociology 3 hrs. 3 cr. Advanced work in selected substantive areas in Sociology: social organization, social institutions, demography, urban sociology. *Preq. Senior status and 15 credits in Sociology or related Behavioral Sciences discipline, and permission of instructor. 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 (Liberal Arts) Sociology of Knowledge 3 hrs. 3 cr. Relationship between social structures and scientific, legal, religious and aesthetic forms as developed in the works of Durkheim, Marx, Weber, and Mannheim. *Preq. SOC 101, SOC 312, SOC 344. Hours arranged. Not offered on a regular basis. Availability to be determined by the department.*

SOC412 (Liberal Arts) Seminar: Contemporary Issues in Sociological Theory 3 hrs. 3 cr. Twentieth-century sociological theory with reference to contemporary issues as radical social theory and phenomenological sociology. *Preq. Senior status and SOC 312. Hours arranged. Not offered on a regular basis. Availability to be determined by the department.*

SOC490 (Liberal Arts) Independent Reading in Sociology 3 hrs. 3 cr. Supervised individual readings on sociological topics not covered by other courses. *Preq. Junior status and permission of instructor. Hours arranged. Not offered on a regular basis. Availability to be determined by the department.*

Spanish

SPAN101 (Liberal Arts) Elementary Spanish I 4 hrs. 4 cr. Basic principles of a beginner's course; designed to give the foundation for understanding, speaking, reading and writing the language; study of simple syntax. *Preq. Placement by department.*

SPAN102 (Liberal Arts) Elementary Spanish II 4 hrs. 4 cr. Continuation of the beginner's course; more complex grammatical structures; integrated reading and further practice in conversation. *Preq. SPAN 101 or placement by department.*

SPAN103 (Liberal Arts) Essential Spanish for the Bilingual Student I 3 hrs. 3 cr. The essentials of orthography, accentuation and syntax for students with oral proficiency in Spanish who have not studied syntax. *Preq. Placement by department or permission by department*

SPAN104 (Liberal Arts) Essential Spanish for the Bilingual Student II 3 hrs. 3 cr. A continuation of the study of basic Spanish grammar and reading integrating the use of audio and visual materials. Designed for students who wish to acquire more knowledge of the language and for bilingual and native speakers who have basic knowledge of Spanish syntax. *Preq. SPAN 103 or Placement by department.*

SPAN105 (Liberal Arts) Intermediate Spanish I 3 hrs. 3 cr. 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. *Preq. SPAN 102 or SPAN 103 or SPAN 104 or placement by department.*

SPAN106 (Liberal Arts) Intermediate Spanish Composition 3 hrs. 3 cr. Development of writing proficiency on the intermediate level using revision and editing techniques, augmented by selected contemporary literary texts. *Preq. SPAN 105 or placement by department.*

SPAN107 (Liberal Arts) Intermediate Spanish for Special Purposes 3 hrs. 3 cr. 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. *Preq. SPAN 105.*

SPAN110 (Liberal Arts) Intensive Elementary Spanish for Health Professions 4 hrs. 3 cr. Proficiency-oriented intensive beginners course in Spanish, with special attention to the vocabulary, grammatical structures and cultural content relevant for health care providers. Students will be evaluated on the basis of oral, listening, reading and writing skills, through tests, oral presentations and short writing assignments. *Preq. Department permission required.*

SPAN117 (Liberal Arts) Intermediate Spanish for Health Professions 4 hrs. 3 cr. Intermediate course in Spanish, with special attention to the vocabulary, grammatical structures and cultural content relevant for health care providers. Students will be evaluated on the basis of oral, listening, reading and writing skills, through tests, oral presentations and short writing assignments. *Preq.: Placement by Department This course may be used to fulfill the General Education Requirement in Foreign Languages only for students in Health Professions programs.*

SPAN180 (Liberal Arts) Intermediate Spanish in the Disciplines I 1 hrs. 1 cr. 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. *Preq. SPAN 107 or placement by department.*

*Courses which are liberal arts for all students are identified as: (Liberal Arts).

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SPAN181 (Liberal Arts) *Intermediate Spanish in the Disciplines II* 1 hrs. 1 cr. 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. *Preq.* SPAN 180.

SPAN182 (Liberal Arts) *Intermediate Spanish in the Disciplines III* 1 hrs. 1 cr. 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. *Preq.* SPAN 181.

SPAN200 (Liberal Arts) *Introduction to Literary Theory and Analysis* 3 hrs. 3 cr. Introduction through close readings of selected texts to a variety of reading approaches and critical methodologies central to the study of literature. *Preq.* Placement by department.

SPAN201 (Liberal Arts) *Hispanic-American Literature from its Origin through Modernismo* 3 hrs. 3 cr. Representative authors of Hispanic-American countries up to the 20th century. *Preq.* SPAN 200.

SPAN202 (Liberal Arts) *Hispanic-American Literature after Modernismo* 3 hrs. 3 cr. Hispanic-American authors after Modernismo. *Preq.* SPAN 200.

SPAN203 (Liberal Arts) *Hispanic-American Short Story* 3 hrs. 3 cr. Critical analysis of the modern short story in Hispanic America. *Preq.* SPAN 200.

SPAN208 (Liberal Arts) *Advanced Grammar* 3 hrs. 3 cr. A systematic review of grammar and a study of syntactical peculiarities of modern Spanish. *Preq.* SPAN 106 and SPAN 107.

SPAN209 (Liberal Arts) *Composition and Style* 3 hrs. 3 cr. Composition based on the stylistic analysis of readings of representative modern authors. *Preq.* SPAN 106 and SPAN 107.

SPAN210 (Liberal Arts) *Spanish Linguistics* 3 hrs. 3 cr. 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. *Preq.* SPAN 106 and SPAN 107. *Course will be conducted in Spanish.*

SPAN213 (Liberal Arts) *Latino Cultures in the U.S.* 3 hrs. 3 cr. This course provides an overview of the presence of the presence of the Latino community in the United States from the colonial period to the present. Special attention is given to its diverse heterogeneous composition; migratory trends throughout the Twentieth century; main socio-economic, linguistic and cultural features of each Latino group; major contributions of the Latino population to the Anglo society. *Preq.* SPAN 106 or SPAN 107. *This course will be taught in Spanish.*

SPAN221 (Liberal Arts) *Spanish Literature to 1700* 3 hrs. 3 cr. 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. *Preq.* SPAN 200.

SPAN222 (Liberal Arts) *Spanish Literature 1700-Present* 3 hrs. 3 cr. Survey of major works of Peninsular Spanish Literature from 1700 to the present. *Preq.* SPAN 200.

SPAN230 (Liberal Arts) *Spanish Literature for Children and Adolescents* 3 hrs. 3 cr. The study and analysis of literature written for children and young adolescents in Spanish, in all genres. *Preq.* SPAN 200 *Special attention will be given to regional and national literary traditions and folklore.*

SPAN240 (Liberal Arts) *Translation I* 3 hrs. 3 cr. Developing skills in translation from Spanish to English, English to Spanish; material will be selected from advertising, journalism, literature, business and other technical areas. *Preq.* SPAN 106 and SPAN 107 and ENG 125. *Not offered on a regular basis. Availability to be determined by the department.*

SPAN241 (Liberal Arts) *Translation II* 3 hrs. 3 cr. Continuation of Spanish 240. More extensive translation of commercial, journalistic, literary and scientific texts. *Preq.* SPAN 241 and ENG 125.

SPAN242 (Liberal Arts) *Commercial Spanish* 3 hrs. 3 cr. 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. *Preq.* SPAN 106 or SPAN 107 and ENG 125. *The student will be exposed to a wide range of Spanish commercial terminology. Speakers from various business firms will address the students.*

SPAN243 (Liberal Arts) *Spanish for the Health Professions* 3 hrs. 3 cr. This course develops a student's Spanish 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 *Preq.* SPAN 106 or SPAN 107; ENG 125 *This course will be taught entirely in the target language.*

SPAN244 (Liberal Arts) *Spanish for the Social Worker* 3 hrs. 3 cr. This course develops a student's Spanish 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. Communicati *Preq.* SPAN 106 or SPAN 107; ENG 125 *This course will be taught entirely in the target language.*

SPAN245 (Liberal Arts) *Spanish for the Tourism and Travel Industries* 3 hrs. 3 cr. This course develops a student's Spanish 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 professi *Preq.* SPAN 106 or SPAN 107; ENG 125 *This course will be taught entirely in the target language.*

SPAN280 (Liberal Arts) *Advanced Spanish in the Disciplines I* 1 hrs. 1 cr. 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. *Preq.* Placement by department.

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SPAN281 (Liberal Arts) *Advanced Spanish in the Disciplines II* 1 hrs. 1 cr. 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. *Preq.* SPAN 280.

SPAN282 (Liberal Arts) *Advanced Spanish in the Disciplines III* 1 hrs. 1 cr. 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. *Preq.* SPAN 281.

SPAN290 (Liberal Arts) *Special Topics* 3 hrs. 3 cr. A selected topic in Spanish studies. *Preq.* SPAN 200. *The topic varies with each offering.*

SPAN300 (Liberal Arts) *Women Writers from Latin America* 3 hrs. 3 cr. 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 Menchus chilling biography, I. Rigoberta Menchu. *Preq.* SPAN 200.

SPAN301 (Liberal Arts) *Romanticismo, Indianismo, Naturalismo, Positivismo and Modernismo in the Spanish Speaking Caribbean* 3 hrs. 3 cr. 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. *Preq.* SPAN 200.

SPAN302 (Liberal Arts) *The Literature of the Spanish Speaking Caribbean after Modernismo* 3 hrs. 3 cr. 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. *Preq.* SPAN 200.

SPAN303 (Liberal Arts) *Dominican Literature* 3 hrs. 3 cr. 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. *Preq.* SPAN 200.

SPAN304 (Liberal Arts) *Puerto Rican Literature* 3 hrs. 3 cr. 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. *Preq.* SPAN 200.

SPAN305 (Liberal Arts) *Contemporary Theater* 3 hrs. 3 cr. Analysis of contemporary Spanish and Hispanic-American plays. Students encouraged to participate in the dramatization and presentation of representative plays. *Preq.* SPAN 200.

SPAN306 (Liberal Arts) *Indigenismo in Twentieth-Century Hispanic-American Fiction* 3 hrs. 3 cr. Exploitation of the Indian in the contemporary social novel and short story. *Preq.* SPAN 200. *Not offered on a regular basis. Availability to be determined by the department.*

SPAN308 (Liberal Arts) *Approaches to Spanish Language Acquisition* 3 hrs. 3 cr. 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. *Preq.* SPAN 209, SPAN 210, ENG 125 and EDUC 351. *Course will be conducted in Spanish.*

SPAN309 (Liberal Arts) *Comparative Structures of English and Spanish* 3 hrs. 3 cr. 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. *Preq.* SPAN 208 and ENG 125.

SPAN310 (Liberal Arts) *Spanish Sociolinguistics* 3 hrs. 3 cr. 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. *Preq.* SPAN 210.

SPAN312 (Liberal Arts) *Cuban Literature* 3 hrs. 3 cr. This course examines Cuban literature from its beginning to the present through the reading of well-known authors from different historical periods and the inclusion of other important authors whose work, for different reasons, has been underrepresented. *Preq.* SPAN 200 and SPAN 209

SPAN320 (Liberal Arts) *Women Writers from Spain* 3 hrs. 3 cr. 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. *Preq.* SPAN 200.

SPAN321 (Liberal Arts) *Medieval Spanish Literature* 3 hrs. 3 cr. Reading and discussion of the most important authors from the earliest period through the 15th century. *Preq.* SPAN 200. *Not offered on a regular basis. Availability to be determined by the department.*

SPAN322 (Liberal Arts) *Literature of the Golden Age* 3 hrs. 3 cr. 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. *Preq.* SPAN 200.

SPAN323 (Liberal Arts) *Spanish Romanticism and Realism of the 19th Century* 3 hrs. 3 cr. 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. *Preq.* SPAN 200.

SPAN324 (Liberal Arts) *Generation of 1898 to the Spanish Civil War* 3 hrs. 3 cr. Representative Spanish authors from the end of the 19th century to 1936. *Preq.* SPAN 200.

SPAN325 (Liberal Arts) *Spanish Literature after the Spanish Civil War* 3 hrs. 3 cr. Novel, drama, essay, and lyric poetry of 20th century Spain after 1936. *Preq.* SPAN 200

SPAN351 (Liberal Arts) *Cervantes* 3 hrs. 3 cr. A general survey of Cervante's works with major emphasis on Don Quijote. *Preq.* SPAN 200 and SPAN 209. *This is a writing intensive course.*

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SPAN413 (Liberal Arts) *Hispanic Civilization* 3 hrs. 3 cr. A comprehensive survey of Iberian and Hispanic-American culture and institutions: Hispanic contributions to world literature, philosophy, music and fine arts. *Preq.* SPAN 200 and SPAN 209 *This is a writing intensive course.*

SPAN414 (Liberal Arts) *Seminar: Special Topics* 3 hrs. 3 cr. Intensive investigation of trends in Hispanic Literature. *Preq.* SPAN 200 and SPAN 209. *Not offered on a regular basis. Availability to be determined by the department.*

SPAN415 (Liberal Arts) *Seminar on Poetry* 3 hrs. 3 cr. A special topic on poetry. *Preq.* SPAN 200 and SPAN 209. *The topic varies with each offering.*

SPAN416 (Liberal Arts) *Seminar Narrative Prose* 3 hrs. 3 cr. A special topic on the novel and/or short story. *Preq.* SPAN 200 and SPAN 209. *The topic varies with each offering.*

SPAN417 (Liberal Arts) *Seminar on the Theatre* 3 hrs. 3 cr. A special topic on the Theatre. *Preq.* SPAN 200 and SPAN 209. *The topic varies with each offering.*

SPAN418 (Liberal Arts) *Seminar on an Author* 3 hrs. 3 cr. The examination of works by a specific author. *Preq.* SPAN 200 and SPAN 209. *Authors will vary with each offering.*

SPAN419 (Liberal Arts) *Seminar on Writing* 3 hrs. 3 cr. A special topic related to writing. *Preq.* SPAN 208 and SPAN 209. *The topic varies with each offering.*

Speech Communication

SPCH101 (Liberal Arts) *Oral Communication in Contemporary Society* 4 hrs. 3 cr. 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 (Liberal Arts) *Fundamentals of Oral Interpretation: Prose and Poetry* 3 hrs. 3 cr. 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 (Liberal Arts) *Voice and Diction* 3 hrs. 3 cr. 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 (Liberal Arts) *Voice and Diction II* 3 hrs. 3 cr. 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. *Preq.* SPCH 182.

SPCH231 (Liberal Arts) *Rhetorical Composition* 3 hrs. 3 cr. 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. *Preq.* SPCH 101 or permission of instructor.

SPCH250 (Liberal Arts) *Introduction to Mass Media* 3 hrs. 3 cr. The communications media, emphasis on history, scope, function, regulation, and especially social implications. *Preq.* *Sophomore status.*

SPCH303 (Liberal Arts) *Ethics and the Freedom of Speech* 3 hrs. 3 cr. 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. *Preq.* *Sophomore status and SPCH 101 or permission of instructor.*

SPCH321 (Liberal Arts) *Rhetorical Theory and Criticism* 3 hrs. 3 cr. 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. *Preq.* *Sophomore status.*

SPCH322 (Liberal Arts) *Theories and Types of Persuasion* 3 hrs. 3 cr. 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. *Preq.* *Junior status or permission of instructor.*

SPCH333 (Liberal Arts) *Major American Spokesmen* 3 hrs. 3 cr. 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. *Preq.* *Junior status or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.*

SPCH341 (Liberal Arts) *Communications in Small Groups* 3 hrs. 3 cr. Principles, psychology, and the methods of group communications; practice sessions in group discussion and discussion leadership from a communications viewpoint.

SPCH350 (Liberal Arts) *Persuasion and Propaganda in Television* 3 hrs. 3 cr. The nature of persuasion and propaganda as applied to all facets of television programming, both commercial and public. *Preq.* SPCH 250. *Not offered on a regular basis. Availability to be determined by the department. Outside speakers may address the class.*

SPCH390 (Liberal Arts) *Special Studies Seminar I* 3 hrs. 3 cr. An intensive study of a selected topic from a speech area. *Preq.* *Permission of instructor. The topic varies with each offering.*

SPCH391 (Liberal Arts) *Special Studies Seminar II* 3 hrs. 3 cr. An intensive study of a selected topic from a speech area. *Preq.* *Permission of instructor. The topic varies with each offering.*

SPCH392 (Liberal Arts) *Special Studies Seminar III* 3 hrs. 3 cr. An intensive study of a selected topic from a speech area. *Preq.* *Permission of instructor. The topic varies with each offering.*

SPCH490 (Liberal Arts) *Independent Research* 0 hrs. 3 cr. Intensive individually guided advanced research in a speech area. *Preq.* *Senior status and 12 credits in Speech or permission of instructor. Hours arranged.*

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Study Abroad

STABD1 *Study Abroad 1 hrs. 1 cr.* See Department for Description

STABD2 *Study Abroad 2 hrs. 2 cr.* See Department for Description

STABD3 *Study Abroad 3 hrs. 3 cr.* See Department for Description

STABD4 *Study Abroad 4 hrs. 4 cr.* See Department for Description

STABD5 *Study Abroad 5 hrs. 5 cr.* See Department for Description

STABD6 *Study Abroad 6 hrs. 6 cr.* See Department for Description

STABD7 *Study Abroad 7 hrs. 7 cr.* See Department for Description

STABD8 *Study Abroad 8 hrs. 8 cr.* See Department for Description

STABD9 *Study Abroad 9 hrs. 9 cr.* See Department for Description

STABD10 *Study Abroad 10 hrs. 10 cr.* See Department for Description

STABD11 *Study Abroad 11 hrs. 11 cr.* See Department for Description

STABD12 *Study Abroad 12 hrs. 12 cr.* See Department for Description

Swahili

SWA101 (Liberal Arts) *Elementary Swahili I 4 hrs. 4 cr.* Basic principles of a beginner's course; designed to give the foundations of the language. *Offered when the demand exists.*

SWA102 (Liberal Arts) *Elementary Swahili II 4 hrs. 4 cr.* Continuation of the beginner's course; more complex grammatical structures, integrated readings and further practice in conversation. *Preq. SWA 101. Offered when the demand exists.*

Theatre Arts

TA110 (Liberal Arts) *Introduction to the Theatre 3 hrs. 3 cr.* 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 (Liberal Arts) ✘ *Voice and Stage Movement for Actors I 4 hrs. 3 cr.* 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 (Liberal Arts) ✘ *Voice and Stage Movement for Actors II 4 hrs. 2 cr.* Continuing study in stage movement, including mime, mask work, and stylized movement; continuing work in voice and speech, including classical performance, dialects, accents. *Preq. SPCH 112. 1 hour lecture, 3 hours studio. Not offered on a regular basis. Availability to be determined by the department.*

TA114 (Liberal Arts) ✘ *Stagecraft I 4 hrs. 3 cr.* 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 (Liberal Arts) ✘ *Stagecraft II 4 hrs. 3 cr.* 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.*

TA116 (Liberal Arts) *Introduction to Stage Management 3 hrs. 3 cr.* This course is a comprehensive survey of the role of the stage manager within the development of a theatrical production from inception to completion. This includes reading and discussion of major plays, their breakdown and technical needs. Students will learn the work that is necessary to run a professional production and the importance of the stage management position. This includes practical work on rehearsals and performances of the York College Theatre semester shows as well as guest speakers and outside trips. *Preq. ENG 125*

TA210 (Liberal Arts) *History of Theatre 3 hrs. 3 cr.* The development of Western Theatre from the classic Greek period to the modern era, with emphases on major plays and playwrights, various forms of theatrical presentation, architecture and design of theatres, and acting styles of each period. Readings in *Preq. ENG 125 This is a Writing Intensive course.*

TA211 (Liberal Arts) *Basic Acting 4 hrs. 3 cr.* The elements of acting; physical and vocal relaxation and concentration; sense memory and emotional recall; prepared scenes and improvisations. *Preq. ENG 125. Field trips may be included and outside speakers may be invited.*

TA212 (Liberal Arts) *Scene Study 4 hrs. 3 cr.* Continuation of TA 211; emphasis on character analysis and techniques of character portrayal. *Preq. TA 211 or permission of the department. Field trips may be included and outside speakers may be invited. Not offered on a regular basis.*

TA215 (Liberal Arts) ✘ *Studies in Theatre Practice I 5 hrs. 3 cr.* Acting, directing, stage lighting, scene design, costuming, or other aspects of theatre related to the college production. *Preq. Permission of instructor. 1 hour lecture, 4 hours laboratory. Lectures by director and outside artists. Laboratory hours involve creative problem solving and realization of theatrical concepts.*

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TA216 (Liberal Arts) ✘ *Studies in Theatre Practice II* 5 hrs. 3 cr. Acting, directing, stage lighting, scene design, costuming, or other aspects of theatre related to the college production. *Preq. Permission of instructor. 1 hour lecture, 4 hours laboratory. Lectures by director and outside artists. Laboratory hours involve creative problem solving and realization of theatrical concepts.*

TA217 (Liberal Arts) ✘ *Studies in Theatre Practice III* 5 hrs. 3 cr. Acting, directing, stage lighting, scene design, costuming, or other aspects of theatre related to the college production. *Preq. Permission of instructor. 1 hour lecture, 4 hours laboratory. Lectures by director and outside artists. Laboratory hours involve creative problem solving and realization of theatrical concepts.*

TA218 (Liberal Arts) ✘ *Studies in Theatre Practice IV* 5 hrs. 3 cr. Acting, directing, stage lighting, scene design, costuming, or other aspects of theatre related to the college production. *Preq. Permission of instructor. 1 hour lecture, 4 hours laboratory. Lectures by director and outside artists. Laboratory hours involve creative problem solving and realization of theatrical concepts.*

TA219 (Liberal Arts) ✘ *Studies in Theatre Practice V* 5 hrs. 3 cr. Acting, directing, stage lighting, scene design, costuming, or other aspects of theatre related to the college production. *Preq. Permission of instructor. 1 hour lecture, 4 hours laboratory. Lectures by director and outside artists. Laboratory hours involve creative problem solving and realization of theatrical concepts.*

TA261 (Liberal Arts) *Intermediate Oral Interpretation: Drama* 3 hrs. 3 cr. Theory, technique, and practice of the interpretation of drama; some attention to non-interpretative view points: the author, critic, philosopher, and auditor. *Preq. SPCH 160.*

TA311 (Liberal Arts) *Fundamental of Directing* 4 hrs. 3 cr. 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. *Preq. TA 115 and TA 211 or permission of instructor. Field trips may be included and outside speakers may be invited.*

TA314 (Liberal Arts) *Computer Design for the Stage* 4 hrs. 3 cr. 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. *Preq. TA 110 and TA 114, basic computer skills and for permission of instructor. 1 hour lecture, 1 hour recitation, 2 hours laboratory.*

TA316 *Performance for Television* 4 hrs. 3 cr. 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. *Preq. SPCH 160 or TA 211 or permission of instructor. 1 hour lecture, 1 hour recitation, 2 hours laboratory. Original writing required for some assignments. Outside speakers may be invited.*

TA317 (Liberal Arts) *Theatrical Criticism* 3 hrs. 3 cr. Principles of dramatic criticism from Aristotle to the present day; critical standards and methods; their application in the evaluation of drama in performance. *Preq. TA 115 and TA 211 or permission of instructor. Attendance at theatrical performances required. Outside speakers may be invited.*

TA390 (Liberal Arts) *Special Studies Seminar I* 3 hrs. 3 cr. An intensive study of a selected topic from an area in Theatre Arts. *Preq. Permission of instructor. The topic varies with each offering.*

TA391 (Liberal Arts) *Special Studies Seminar II* 3 hrs. 3 cr. An intensive study of a selected topic from an area in Theatre Arts. *Preq. Permission of instructor. The topic varies with each offering.*

TA392 (Liberal Arts) *Special Studies Seminar III* 3 hrs. 3 cr. An intensive study of a selected topic from an area in Theatre Arts. *Preq. Permission of instructor. The topic varies with each offering.*

TA411 (Liberal Arts) *History of Avant-Garde Performance* 3 hrs. 3 cr. 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. *Preq. TA 110 or permission of instructor. Written work and attendance at New York avant garde performances are required.*

TA490 (Liberal Arts) *Independent Research* 0 hrs. 3 cr. Intensive individually guided advanced research in a theatre arts area. *Preq. Senior status and 12 credits in Theatre Arts or permission of instructor. Hours arranged.*

World Literature

WLIT201 (Liberal Arts) *The Literature of the Western World Through the Renaissance* 3 hrs. 3 cr. 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. This course is Writing Intensive. *Preq. ENG 125. This is a writing intensive course.*

WLIT205 (Liberal Arts) *Introduction to Francophone Literature* 3 hrs. 3 cr. Contemporary literature written in French from the West Indies, North and Sub-Saharan Africa. *Preq. ENG 125. This course proposes to read the most interesting and problem-revealing works which have been translated into English.*

WLIT206 (Liberal Arts) *Introduction to the Literature of the Caribbean* 3 hrs. 3 cr. Introduction to the Literature of the Caribbean. *Preq. ENG 125.*

WLIT207 (Liberal Arts) *Introduction to Latin American Literature* 3 hrs. 3 cr. Introduction to the literature of Latin America. *Preq. ENG 125.* **WLIT210 (Liberal Arts)** *North African Literature in Translation* 3 hrs. 3 cr. This course will use a comparative approach to explore the critical and theoretical understanding of the works of some of the most important North African authors from diverse ethnic backgrounds (Arab, Berber, French and Jewish) in translation. This interdisciplinary course will cover such themes as: colonialism, post-colonialism and neo-colonialism; Islam and modernity; antagonistic cultures and reconciliation; patriarchy; European and North African cultural identities. This course is a designated Writing Intensive (WI) course. *Preq. ENG 125 This is a writing intensive course.*

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** Courses identified NOT Liberal Arts in addition to courses identified with an ✘ CANNOT be used as Liberal Arts by ACCOUNTING MAJORS.

WLIT211 (Liberal Arts) *Italian Theatre in Translation* 3 hrs. 3 cr. 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. *Preq. ENG 125. Not offered on a regular basis. Availability to be determined by the department.*

WLIT212 (Liberal Arts) *Masterpieces of Spanish Literature in Translation* 3 hrs. 3 cr. Representative works from the origins of Spanish Literature to the present. *Preq. ENG 125. Not credited toward fulfillment of Spanish Major requirements. Not offered on a regular basis. Availability to be determined by the department.*

WLIT225 (Liberal Arts) *Introduction to Latino Literature in the U.S.* 3 hrs. 3 cr. Introduction to the literature of Latinos in the U.S. *Preq. ENG 125.*

WLIT226 (Liberal Arts) *Contemporary Women Writers in World Literature* 3 hrs. 3 cr. Introduces students to significant literature written by women in the 19th and 20th centuries throughout the world. *Preq. ENG 125 and WRIT 301 3 hours lecture.*

WLIT230 (Liberal Arts) *Divine Comedy in Translation* 3 hrs. 3 cr. This course will examine the Divine Comedy as the masterpiece of Dante Alighieri and Italian Literature, as well as one of the most significant works of the World Literature. After a careful introduction to 13th and 14th century European and Italian historical and cultural contexts, we will read key cantos from the Inferno, the Purgatorio, and the Paradiso. Oral presentations may be required *Preq. ENG 125 Not offered on a regular basis. Availability to be determined by the department.*

WLIT326 (Liberal Arts) *Womens Writing: The Quest for the Self through Memory* 3 hrs. 3 cr. This course analyzes and questions the place and role of History and Memory in some contemporary Caribbean Francophone and Hispanophone texts from diverse cultures throughout the world, which present and reveal the role of the politic versus the private, the public versus the psyche. The course will focus on novels and short stories written in or translated into English, whose voices have a testimonial dimension. This course will be taught as a Writing Intensive course *Preq. ENG 125 and WRIT 301 This is a writing intensive course.*

Writing

WRIT301 (Liberal Arts) *Research and Writing for the Major* 4 hrs. 3 cr. 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. *Preq. Junior status and completion of ENG 125; AC 101. 2 hours lecture, 2 hours laboratory. Course sections may be offered as hybrid online courses or as fully asynchronous online courses.*

WRIT302 (Liberal Arts) *Research and Writing for the Sciences, Mathematics, and Technology* 4 hrs. 3 cr. 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. *Preq. Junior status and completion of ENG 125; AC 101. 2 hours lecture, 2 hours laboratory. Course sections may be offered as hybrid online courses or as fully asynchronous online courses.*

WRIT303 (Liberal Arts) *Research and Writing for Professional Programs* 4 hrs. 3 cr. 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. *Preq. Junior status and completion of ENG 125; AC 101. 2 hours lecture, 2 hours laboratory. Course sections may be offered as hybrid online courses or as fully asynchronous online courses.*

Youth Development

YD280 (Liberal Arts) *Theory and Practice* 4 hrs. 3 cr. 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 cov *Preq. ENG 125 This course carries a Liberal Arts designation. 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. Students with prio*

YD283 (Liberal Arts) *Building Learning Communities* 4 hrs. 3 cr. 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, interdi *Preq. YD 280 This course carries a Liberal Arts designation.*

YD290 (Liberal Arts) *Action Research for Educators* 2 hrs. 2 cr. 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 *Preq. YD 280, YD 283 This course carries a Liberal Arts designation.*

Yiddish

YID101 (Liberal Arts) *Elementary Yiddish I* 4 hrs. 4 cr. Basic principles of a beginner's course; designed to give the foundations of language. *Offered when the demand exists.*

YID102 (Liberal Arts) *Elementary Yiddish II* 4 hrs. 4 cr. Continuation of the beginner's course; more complex grammatical structures, integrated readings and further practice in conversation. *Preq. YID 101. Offered when the demand exists.*

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- Kinyatti, Njoki-Wa-, Associate Professor, Library MPA, John Jay College of Criminal Justice; MLIS, St. John's University; BA, John Jay College of Criminal Justice;
- Kirk, Timothy, Assistant Professor, History and Philosophy PhD, Villanova University; MA, Villanova University; BA, Bucknell University;
- Kirkham, Phebe, Substitute Lecturer, English MFA, Brooklyn College; BA, Yale College;
- Kirkpatrick, Carolyn, Professor Emeritus, English
- Klugh, Elgin, Assistant Professor, Social Sciences PhD, University of South Florida; MA, University of South Florida; BA, Morehouse College;
- Kranacher, Mary-Jo, Chair, Accounting and Finance MBA, St. John's University; BS, York College, CUNY;
- Krauss, Andrea , Chair, Occupational Therapy PhD, Adelphi University; MS, Adelphi University; BS, New York University;
- Lane, Charlene, Instructor, Health and Physical Education MSW, New York University; BA, York College;
- Lasser, Lewis, Assistant Professor, Mathematics and Computer Science
- Lavin, Joanne, Professor, Health Professions EDD, Teachers College, Columbia University; MS, Teachers College, Columbia University; MS, Hunter College, CUNY; BS, Marymount Manhattan College;
- Lee, Jong-Il, Assistant Professor, Chemistry PhD, Michigan State University;
- Letteney, Susan, Associate Professor, Social Sciences DSW, Yeshiva University; non-degree, New York University; MSW, Hunter College School of Social Work; BS, Vanderbilt University;
- Levey, Tania, Assistant Professor, Social Sciences PhD, CUNY Graduate Center; certificate, CUNY Graduate Center; BA, Rutgers University;
- Levinger, Louis, Professor, Biology PhD, University of North Carolina, Chapel Hill; BS, Antioch College;
- Lewis, Glenn, Professor, English
- Lynch , Kevin, Assistant Professor, Earth and Physical Sciences PhD, Boston University; MA, Boston University; BS, Massachusetts Institute of Technology;
- Machalow, Robert, Professor, Library BA, SUNY Stony Brook; MA, Indiana University; MLS, Rutgers University;
- MacNeil, Margaret, Associate Professor, Biology PhD, Boston University School of Medicine; AB, Smith College;
- Majerovitz, Deborah, Professor, Behavioral Sciences PhD, City University of New York Graduate Center; MA, City University of New York Graduate Center; BA, Swarthmore College;
- Malkevitch, Joseph, Professor Emeritus, Mathematics and Computer Science PhD, University of Wisconsin-Madison; MS, University of Wisconsin-Madison; BS, Queens College (Flushing);

Mangru, Basdeo, Associate Professor, History and Philosophy *PhD*, *University of London*; MA, *University of Guyana*; BA, *University of Guyana*;

Marion, Tom, Assistant Professor, Performing and Fine Arts *MFA*, *Rutgers*;

Marks, Ray, Associate Professor, Health and Physical Education

Marra, Anna, Substitute Lecturer, Health and Physical Education *MS*, *Long Island University*; BA, *Long Island University*;

Massimino, Phoebe, Assistant Professor, Business and Economics

Mawyer, Farley, Professor, Mathematics and Computer Science

McGee, Daniel, Associate Professor, English

McNeil, Gerard, Chair, Biology *PhD*, *University of Massachusetts Medical School*; BS, *University of Massachusetts Dartmouth*;

Meddeb, Elizabeth, Associate Professor, Foreign Languages, ESL and Humanities *PhD*, *Columbia University*; MA, *Columbia University*; BA, *Richmond University*;

Meleties, Panayiotis, Dean, School of Arts & Sciences

Metcalfe, Eric, Assistant Professor, Performing and Fine Arts *PhD*, *University of Massachusetts, Amherst*; MA, *University of Massachusetts, Amherst*; BA, *University of New Hampshire, Durham*;

Milanes, Patricia, Lecturer, English

Miller, Christina, Instructor, Library *MS*, *Queens College*; *MLS*, *Queens College*; BA, *York College*;

Mokruce, Kathariya, Assistant Professor, Behavioral Sciences *PhD*, *Rutgers University*; MS, *Rutgers University*; BA, *Hunter College-CUNY*;

Moldovan, Vadim, Associate Professor, Social Sciences

Moore, Thomas, Assistant Professor, English *MS*, *Columbia University*; BS, *Fairfield University*;

Namphy, Mychel, Assistant Professor, English

Nath, Rishi, Assistant Professor, Mathematics and Computer Science *PhD*, *University of Illinois*; MA, *Brandeis University*; BA, *University of Chicago*;

Neale, Kay, Lecturer, History and Philosophy *MFA*, *Yale University, School of Drama*; BA, *Hunter College*;

Ogle, Patricia, Lecturer, Health and Physical Education

Oglensky, Bonnie, Associate Professor, Social Sciences *PhD*, *The Graduate Center, City University of New York*; *MPhil*, *The Graduate Center, City University of New York*; *MSW*, *New York University*; BA, *George Washington University*;

Oladipo, Olajide, Assistant Professor, Business and Economics *PhD*, *University of Birmingham, UK*; *MPhil*, *University of Cambridge, UK*; MS, *Obafemi Awolowo University, Nigeria*; BS, *Obafemi Awolowo University, Nigeria*;

Ou, Chau Song, Associate Professor, Business and Economics

Paglione, Timothy, Associate Professor, Earth and Physical Sciences *PhD*, *Boston University*; BS, *Stevens Institute of Technology*;

Papa Jr., James, Associate Professor, English *PhD*, *State University of New York at Stonybrook*; MA, *State University of New York at Stonybrook*; BA, *State University of New York at Stonybrook*;

Parmet, Robert, Professor, History and Philosophy

Perry, Linda, Associate Professor, Business and Economics

Pina Fonti, Maria Elena, Assistant Professor, Health Professions *MS*, *Columbia University, Teachers College*; BS, *Hunter Bellevue College*;

Popp, James, Assistant Professor, Earth and Physical Sciences *PhD*, *University of Illinois at Urbana-Champaign*; MS, *Northern Illinois University*; BS, *University of Illinois at Urbana-Champaign*; BS, *University of Illinois at Urbana-Champaign*;

Preiser, Lawrence, Assistant Professor, Behavioral Sciences

Prewitt, Tanya, Assistant Professor, Health & Physical Education *PhD*, *University of Tennessee*; MS, *University of Tennessee*; BA, *Carthage College, Wisconsin*;

Pritchard, Frank Leon, Professor, Mathematics and Computer Science

Profit, Adam, Assistant Professor, Chemistry

Ramos, Juana, Lecturer, Foreign Languages, ESL and Humanities *PhD*, *The Graduate Center CUNY*; MA, *The Graduate School and University Center of The City University of New York (CUNY)*; BA, *Hunter College - CUNY, New York*; AA, *Hostos Community College- CUNY, Bronx, N.Y.*;

Rampersaud, Edward, Doctoral Lecturer, Health Professions

Rivera-Maestre, Rebecca, Assistant Professor, Social Sciences *PhD*, *City University of New York*; MBA, *Baruch College, CUNY*; BA, *University of Georgia*;

Rivera-Valdes, Sonia, Professor, Foreign Languages, ESL and Humanities

Robie, Daniel, Assistant Professor, Chemistry *PhD*, *University of Illinois at Chicago*; BA, *Reed College*;

Robinson, Heather, Assistant Professor, English *PhD*, *Rutgers University*; BA, *University of Sydney*;

Rodgers, Selena T., Assistant Professor, Social Sciences *PhD*, *Adelphi University*; MS, *Syracuse University*; BS, *Marymount College*; AA, *Alfred State College of Technology, SUNY*;

Rooney, Theresa, Associate Professor, English

Rosen, Harry, Dean, Academic Affairs - School of Business and Information Systems *PhD*, *Johnson Graduate School of Management, Cornell University*; MS, *School of Public Health, Columbia University*; BS, *Wharton School, University of Pennsylvania*;

Rosenthal, Beth, Professor, Social Sciences *DSW*, *Adelphi University School of Social Work*; *MSW*, *Adelphi University School of Social Work*; BA, *Queens College of The City University of New York*;

Rowe, Debbie A., Assistant Professor, English *PhD*, *Rensselaer Polytechnic Institute*; MS, *Rensselaer Polytechnic Institute*; BA, *The City College of New York, CUNY*;

Ruiz, Rosemarie, Associate Professor, Accounting and Finance

Ruttenberg, Howard, Professor, History and Philosophy *PhD*, *The University of Chicago*; *PhD*, *The University of Chicago*;

Saad, Zohra, Assistant Professor, Foreign Languages, ESL and Humanities *EDD*, *Teachers' College, Columbia University*; MA, *Boston University*; BA, *University of Algiers*;

Sadighian, Ali, Assistant Professor, Business and Economics *PhD*, *Columbia University*; MS, *Columbia University*; MBA, *Sharif University of Technology, Tehran, Iran*; BS, *Sharif University of Technology, Tehran, Iran*;

Schachter, Joseph, Associate Professor, Business and Economics

Scheiner, Peter, Professor Emeritus, Chemistry

Schleifer, Stanley, Chair, Earth and Physical Sciences *PhD*, *Earth and Environmental Sciences*; MA, *Geology*; BS, *Geology*;

- Schlein, Jack, Professor Emeritus, Biology *PhD*, *Lehigh University*; MS, *Lehigh University*; BS, *Brooklyn College*;
- Schneider, Marguerite, Associate Professor, Business and Economics *PhD*, *Rutgers University*; MS, *New York University*; BS, *New York University*;
- Schuller, Mark, Assistant Professor, Social Sciences *PhD*, *University of California, Santa Barbara*; MA, *UCSB*; BA, *University of Minnesota, Morris*;
- Serant, Claire, Lecturer, English MS, *Columbia University*; BS, *St. John's University*;
- Serrano, Lucienne, Professor, Foreign Languages, ESL and Humanities *PhD*, *Graduate Center/CUNY*; *PhD*, *Diploma of Psychoanalyst*;
- Sharpe, Michael, Assistant Professor, Behavioral Sciences *PhD*, *CUNY Graduate Center*; MPhil, *CUNY Graduate Center*; MIA, *Columbia University*; BA, *Rutgers College / Rutgers University*;
- Shearin-Patterson, Tonya, Assistant Professor, Health Professions MS, *Adelphi University*; BS, *St. John's University*;
- Sheidlower, Scott, Assistant Professor, Library MLS, *Queens College/CUNY*; MA, *New York University*; MA, *New York University*; BA, *Hunter College/CUNY*;
- Shilling, Wynne, Professor Emeritus, Teacher Education
- Simkin, Phillips , Professor, Performing and Fine Arts MFA, *Cornell University*;
- Simon, Anne, Assistant Professor, Biology *PhD*, *University of Paris XI, FRANCE*; MS, *University of Paris XI, FRANCE*; BS, *University of Paris XI, FRANCE*;
- Small , Yolanda, Assistant Professor, Chemistry *PhD*, *Penn State University*; BS, *University of Houston*;
- Small, Merris, Substitute Lecturer, Accounting and Finance MS, *University of the West Indies, Jamaica*; BS, *University of the West Indies, Jamaica*;
- Smickle, Winsome, Lecturer, Behavioral Sciences non-degree, *Pace University*; MA, *Adelphi University*; BA, *York College*;
- Smith, Michael, Assistant Professor, Performing and Fine Arts MFA, *Tufts University, School of the Museum of Fine Arts*; MS, *University of Chicago*;
- Spergel, Martin, Professor Emeritus, Earth and Physical Sciences *PhD*, *University of Rochester*; MA, *University of Rochester*; BA, *Rensselaer Polytechnic Institute*;
- Stern, Lorraine, Assistant Professor, Accounting and Finance
- Stolte, James, Substitute Assistant Professor, Earth and Physical Sciences *PhD*, *University of Rochester*; MS, *Drexel University*; BS, *Drexel University*;
- Strassberg, Helen, Professor Emeritus, Mathematics and Computer Science
- Su, Di, Associate Professor, Library MLS, *SUNY-Albany*; MM, *University of Connecticut*; MM, *West Virginia University*; BA, *Shanghai Conservatory of Music*;
- Sunmonu, AdeFemi, Associate Professor, Mathematics and Computer Science
- Swoboda, Debra, Associate Professor, Behavioral Sciences *PhD*, *SUNY Stony Brook*; MA, *SUNY Stony Brook*; BA, *SUNY Stony Brook*;
- Thompson, Virginia L., Substitute Doctoral Lecturer, Mathematics and Computer Science EDD, *Teachers College Columbia University*; MA, *Teachers College Columbia University*; BS, *CUNY York College*;
- Tilson, Ivy, Lecturer, Occupational Therapy *PhD*, *University of Maryland Eastern Shore*; MS, *Central Michigan University*; BS, *York College of the City University of New York*; AAS, *Queensborough Community College*;
- Urban, Sandra G., Instructor, Library MA, *Queens College*; MLIS, *Rutgers University*; BA, *Salisbury University*;
- Vasquez, Eva, Associate Professor, Foreign Languages, ESL and Humanities *PhD*, *City University of New York Graduate School*; MA, *Hunter College*; BA, *University of Puerto Rico*;
- Villegas, Francisco, Associate Professor, Behavioral Sciences *PhD*, *City University of New York*; BA, *City College, City University of New York*;
- Wang , Vivien, Assistant Professor, Mathematics and Computer Science
- Werber-Zion, Galila, Associate Professor, Health and Physical Education
- White, George, Assistant Professor, History and Philosophy *PhD*, *Temple University*;
- Williams, Shawn, Assistant Professor, Health Professions *PhD*, *Seton Hall University*; DC, *New York Chiropractic College*; BS, *College of Staten Island*;
- Wojciechowski, Radoslaw, Assistant Professor, Mathematics and Computer Science *PhD*, *City University of New York*; BS, *Indiana University*;
- Wolf, Karin, Lecturer, English MA, *Hunter College*; BA, *Queens College*;
- Wolosin, Dora, Assistant Professor, Earth and Physical Sciences *PhD*, *New York University*;
- Wu, Tsu-Chih, Professor, Mathematics and Computer Science
- Young, Hope E., Associate Professor, Library non-degree, *National Christian Counselors Association*; non-degree, *Andrews University*; MS, *College of New Rochelle*; MLS, *SUNY at Buffalo*; BS, *Andrews University*;
- Yu Wang, Vivien, Assistant Professor, Mathematics and Computer Science *PhD*, *Oklahoma State University*; MS, *Oklahoma State University*; BS, *Beijing University of Science & Technology, China*;
- Zhang, Danyang, Assistant Professor, Mathematics and Computer Science *PhD*,
- 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 *PhD*, *CUNY Graduate Center*; MA, *Queens College / CUNY*; BA, *Grinnell College*;

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

S 224-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 appli-

cable 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 & Vice Chancellor for Legal Affairs

The City University of New York

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 & 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 un-

less 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

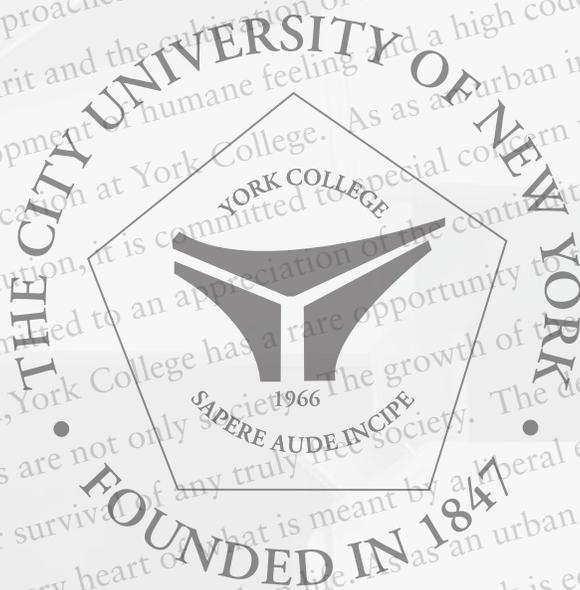
(elected by the Faculty Senate members), and one student (elected by the Student Senate members).

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

Index

| | | | | | |
|---|-----|---|-----|--|-----|
| Academic Computing | 77 | Division of Student Development | 41 | Physician Assistant (BS) | 97 |
| Academic Dev. (Preparatory Program) | 107 | Economics (BA) | 81 | Physics (BS) | 57 |
| Academic Policies | 29 | Economics (Minor) | 82 | Physics Education (Certificate Program) | 58 |
| Academic Probation and Retention | 32 | English as a Second Language (ESL) | 65 | Policies | 203 |
| Accounting (BS) | 79 | English (BA) | 60 | Political Science (BA) | 85 |
| Adjunct Faculty | 202 | English (Minor) | 61 | Poly-Sci Cross-Cultural Stdi Psy (Minor) | 86 |
| Admissions at York College | 12 | Environmental Health Science (BS) | 55 | Political Science (Minor) | 85 |
| African-American Studies (BA) | 104 | Environmental Science (Minor) | 56 | Pre-Engineering (Special Program) | 58 |
| African-American Studies (Minor) | 104 | Federal Student Aid Programs | 23 | Pre-Law Studies w/ Poly-Sci (Minor) | 87 |
| Anthropology (BA) | 105 | Financial Aid - Scholarships | 46 | Psychology (BA) | 87 |
| Anthropology (Minor) | 105 | French (BA) | 63 | Psychology (Minor) | 88 |
| Art History (BA) | 73 | French & Francophone Studies (Minor) | 63 | Public Administration (Minor) | 87 |
| Astronomy (Minor) | 55 | Full-Time Faculty | 198 | Puerto Rican Studies (Minor) | 64 |
| Aviation Management (BS) | 80 | General Education Requirements | 36 | Registration: General Information | 15 |
| Aviation Mngmt. (Certificate Program) | 80 | Geology (BS) | 56 | Resources for Students | 38 |
| Aviation Policy (Minor) | 86 | Geology Earth Sci. Education 7-12 (BS) | 57 | Social Work (BS) | 106 |
| B.A. with Honors in History | 68 | Gerontological Studies & Services (BS) | 89 | Sociology (BA) | 107 |
| Biology (BS) | 50 | Gerontology (Minor) | 90 | Sociology (Minor) | 107 |
| Biology Education (Certificate Program) | 51 | Grading Policies | 30 | Spanish (BA) | 64 |
| Biology (Minor) | 50 | Graduation Requirements | 33 | Spanish For Professional Purposes | 65 |
| Biotechnology (BS) | 51 | Health Education (Minor) | 93 | Spanish (Minor) | 65 |
| Biotechnology (Minor) | 52 | Health Promotion Management (BS) | 90 | Speech Comm. & Theatre Arts (BA) | 75 |
| B.S. with Honors in Biology | 50 | HEGIS Code & Program Names | 36 | Studio Art (BA) | 76 |
| B.S. with Honors in Chemistry | 53 | History (BA) | 67 | Studio Art (Minor) | 76 |
| B.S. with Honors in Geology | 57 | History (Minor) | 68 | Survey Research (Certificate Program) | 107 |
| Business Administration (BS) | 80 | Interdisciplinary Studies (BA) | 68 | Tchr. Ed Childhood Ed. Grd 1-6 (BA) | 110 |
| Cert. Progam Child and Youth Workers | 111 | International Relations (Minor) | 86 | Tchr. Ed (Spanish/English) Grd 1-6 (BA) | 110 |
| Chemistry (BS) | 52 | Italian Studies (Minor) | 63 | Teaching Cert. in Biology 7-12 (BS) | 51 |
| Chemistry Education (Cert. Program) | 54 | Journalism (BA) | 61 | Teaching Cert. in Chemistry 7-12 (BS) | 53 |
| Chemistry (Minor) | 53 | Journalism (Minor) | 62 | Teaching Cert. in Health Ed. K-12 (BS) | 92 |
| Childhood Ed. Middle Schl. Ext. (BA) | 109 | Labor Studies Political Science (Minor) | 86 | Teaching Cert. in Spanish 7-12 (BA) | 66 |
| Classification and Change of Status | 29 | Latin American Studies (Minor) | 64 | Theatre Arts (Minor) | 75 |
| Clinical Lab Science/Medical Tech. (BS) | 94 | Liberal Arts Requirement | 35 | The Cost of Education | 20 |
| Cognitive Neuroscience (Minor) | 88 | Marketing (BS) | 82 | Tuition and Fees | 17 |
| Communications Technology (BS) | 73 | Mathematics (B.A. or B.S.) | 70 | Tuition and Fees Schedule | 21 |
| Communications Technology (Minor) | 74 | Mathematics Education 7-12 (BS) | 72 | Urban Anthropology (Minor) | 105 |
| Community Health Education (BS) | 89 | Mathematics (Minor) | 71 | Women's Studies (Minor) | 66 |
| Computer Apps in Business (Minor) | 81 | Medical Anthropology (Minor) | 105 | World Literature (Minor) | 66 |
| Computer Science (BS) | 70 | Mortgage Finance (Certificate Program) | 82 | Writing Program (Special Program) | 62 |
| Computer Science (Minor) | 70 | Mortgage Finance (Minor) | 82 | | |
| Creative Writing (Minor) | 60 | Movement Science (BS) | 91 | | |
| Creole (Minor) | 63 | Music (BA) | 74 | | |
| Cultural Diversity (Special Program) | 69 | Music (Minor) | 75 | | |
| CUNY Aviation Institute at York College | 41 | Nursing (BS) | 95 | | |
| Curriculum | 33 | Occupational Therapy (BS/MS) | 100 | | |
| Departmental Honors | 65 | Part-Time TAP (PTAP) | 22 | | |
| | | Pharmaceutical Science (BS) | 54 | | |
| | | Philosophy (BA) | 69 | | |
| | | Physical Education (Grades K-12) (BS) | 91 | | |



York College

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Jamaica, New York 11451
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