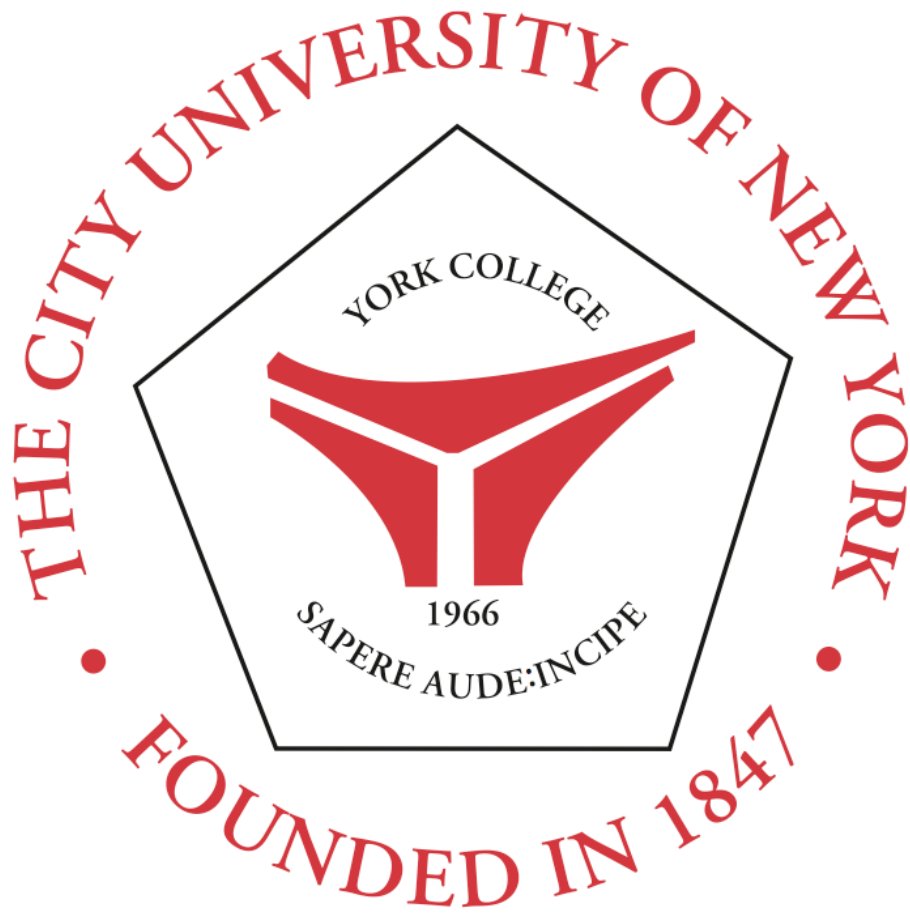


YORK College | **CUNY**

UNDERGRADUATE BULLETIN

2021 - 2022





2021 -2022 Undergraduate Bulletin 51

Hours of Operation:

9:00 AM - 5:00 PM, Monday to Friday

718-262-2000

All other times - 718-262-2222

www.york.cuny.edu

Important Notice of Possible Changes: The Board of Trustees of The City University of New York reserves the right to make changes of any nature in the academic programs and requirements of The City University of New York and its constituent colleges. All programs, requirements, and courses are subject to termination or change without advance notice. Tuition and fees set forth in this publication are similarly subject to change by the Board of Trustees of The City University of New York.

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 (DegreeWorks) 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. Bulletin is accurate as of October 6, 2021. Updates can be found at: www.york.cuny.edu/bulletin

Statement of Nondiscrimination: York College is an Equal Opportunity and Affirmative Action institution. The College does not discriminate on the basis of race, color, creed, national or ethnic origin, ancestry, religion, age, gender, sexual orientation, gender identity, marital status, disability, genetic predisposition or carrier status, alienage or citizenship, military or veteran status, or as a victim of domestic violence in its student admissions, employment, access to programs, and administration of educational policies. The College follows the laws and mandates of the Federal Government as articulated by Executive Order #11246, and as amended by the Chancellor of The City University of New York on 12/9/76, to include Italian Americans.

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Welcome to York College

Dear Student,

Thank you for choosing York College for this phase of your educational journey! I look forward to seeing your success story unfold. You will find that York professors are among the best anywhere and will help you achieve your academic goals with insight and encouragement. Please take advantage of every opportunity to learn and grow.

Be assured as well, that we are here to support your success and wellbeing. We ask only that you connect, put forth your best effort and make integrity the hallmark of your time at York College and beyond. We are counting on you to find an academic mentor and indeed, mentors amongst your peers and staff members as well. They will be part of your success strategy.

Despite the many challenges connected to the coronavirus pandemic, and the ongoing need to follow safety protocols as recommended by the CDC, we welcome you with joy. We want you to know how much we value having you as our student and how much we look forward to seeing you during our community town halls via Zoom and in-person whenever possible.

We are committed to ensuring that you have a meaningful learning experience even as we continue to follow COVID mandates. Please be willing to be flexible as circumstances demand of us. Please endeavor to keep up with your classes and assignments even as you practice self-care.

Again, I welcome and appreciate you as part of our York family. Together we will make this a successful journey for you. Stay safe, stay well and stay connected to your professors and mentors. And always remember, we are "One York."

Sincerely,

Berenecea Johnson Eanes, President

Academic Calendar

Fall 2021	Date	Description
Mon	Jul 26	Last day for continuing non-matriculated students to apply for matriculation for Fall 2021 semester.
Wed - Fri	Aug 18 - 20	Registration.
Mon - Tue	Aug 23 - 24	Registration.
Tue	Aug 24	Last day to drop course(s) for 100% tuition refund. Last day to file ePermit request.
Wed	Aug 25	First day of classes.
Wed - Fri	Aug 25 - 27	*Late Registration and Program Changes.
Mon - Tues	Aug 30 - 31	*Late Registration and Program Changes.
Tues	August 31	*Last day to drop course(s) for 75% tuition refund.*Last day to add course(s). Last day to drop without the grade of WD. Financial Aid Certification Enrollment Status date.
Wed	Sept 1	Course Withdrawal Drop period begins. A grade of WD is assigned to students who officially drop a course(s). Verification of Enrollment rosters available to faculty.
Fri - Wed	Sept 3 - 8	No classes scheduled.
Mon	Sept 6	College is closed. *Last day to drop course(s) for 50% tuition refund.
Tues	Sept 14	*Last day to drop course(s) for 25% tuition refund. *Course Withdrawal Drop period ends. Last day to drop course(s) WITHOUT a grade of W . Last day to change/declare a Major/Minor to be effective for Fall 2021. Last day to file for Spring 2022 Graduation. Census date - Form-A cutoff. Verification of Enrollment rosters due from faculty.
Wed	Sept 15	Course Withdrawal period begins. A grade of W is assigned to students who officially drop course(s).*100% Tuition obligation for course drops.
Wed - Thru	Sept 15 - 16	No classes scheduled.
Fri	Sept 24	WA grades assigned - Immunization non-compliance.
Mon	Oct 11	College is closed - No classes scheduled.
Tue - Wed	Oct 12 - 20	Midterm Assessment Period.
Thru	Nov 4	Last day for INC grade changes for Spring 2021 and Summer 2021 to be received by the Office of Last day to apply for Pass/Fail Option.
Thu - Sun	Nov 25 - 28	College is closed - No classes scheduled.
Mon	Dec 13	Last day for classes. Course Withdrawal period ends. Last day to withdraw from course(s) WITH a grade of W without Committee on Academic Policy and Standards approval Last day to rescind Pass/Fail Option.
Tues	Dec 14	Reading Day/ Final Examinations for mass exams only.
Wed - Tues	Dec 15 - 21	Final Examinations.
Tues	Dec 21	End of Fall 2021 term.
Fri - Sat	Dec 24 - 25	College is closed.
Mon	Dec 27	Final grade submission deadline.
Fri	Dec 31	College is closed.
Sat	Jan 1, 2022	Fall 2021 Degree Conferral date. College is closed.

***Students may still be liable for tuition.**

Dates listed above are subject to change without prior notification. Revised 8/4/2021

Winter 2022	Date	Description
Sun	Jan 2	Last day to file ePermit request for Winter Session. College is closed. Last day to drop course(s) for 100% refund.
Mon	Jan 3	First day of classes. *Late registration and program changes. *Last day to drop course(s) for 50% tuition refund. Last day to drop course(s) Without a grade of WD . Financial Aid Certification Enrollment Status date.
Tue	Jan 4	Course Withdrawal Drop period begins. A grade of WD is assigned to students who officially drop a course(s). Verification of Enrollment rosters available to faculty.
Wed	Jan 5	*Last day to drop course(s) for 25% tuition refund. *Course Withdrawal Drop period ends. Last day to drop course(s) WITHOUT a grade of W . Verification of Enrollment rosters due from faculty. Census date - Form-A cutoff.
Thu	Jan 6	*100% Tuition obligation for course drops. WN grades assigned. Course Withdrawal period begins. A grade of W is assigned to students who officially drop a course(s).
Mon	Jan 17	College is closed - No classes scheduled.
Sun	Jan 23	Last day of classes. Last day to APPLY for or RESCIND Pass/Fail Option. Course Withdrawal period ends. Last day to withdraw from a course(s) WITH a grade of W without Committee on Academic Policy and Standards approval.
Mon	Jan 24	Final Examinations. End of Winter 2022 Session.
Tue	Jan 25	Final grade submission deadline.
Tue	Feb 1	Winter 2022 Degree Conferral date.
<p>*Students may still be liable for tuition. Date listed above are subject to change without prior notification. Revised 8/4/2021</p>		

Spring 2022	Date	Description
Mon	Jan 3	Last day for continuing non-matriculated students to apply for matriculation for the Spring 2022 semester.
Mon - Thu	Jan 24 - 27	Registration.
Thu	Jan 27	Last day to drop course(s) for 100% tuition refund. Last day to file ePermit request.
Fri	Jan 28	First day of classes.
Fri - Thu	Jan 28 - Feb 3	*Late registration and program changes.
Thu	Feb 3	*Last day to drop course(s) for 75% tuition refund. *Last day to add course(s). Last day to drop without the grade of WD. Financial Aid Certification Enrollment Status date.
Fri	Feb 4	Course Withdrawal Drop period begins. A grade of WD is assigned to students who officially drop a course(s). Verification of Enrollment rosters available to faculty.
Thu	Feb 10	*Last day to drop course(s) for 50% tuition refund.
Sat - Sun	Feb 12 - 13	College is closed - No classes scheduled.
Thu	Feb 17	*Last day to drop course(s) for 25% tuition. Last day to change/declare a Major/Minor to be effective for Spring 2022. Last day to file for Summer 2022 Graduation. Verification of Enrollment rosters due from faculty.
Fri	Feb 18	*Course Withdrawal period begins. A grade of W assigned to students who officially drop course(s).
Mon	Feb 21	College closed - No classes scheduled.
Sat - Fri	Mar 19 - 25	Midterm Assessment Period.
Fri	Apr 8	Last day to apply for Pass/Fail Option. Last day for INC grade changes for Fall 2021 and Winter 2022 to be received by the Office of the Registrar.
Fri - Fri	Apr 15 - 22	Spring Recess.
Mon	May 16	Last day for classes. Last day to RESCIND Pass/Fail Option. Course Withdrawal period ends. Last day to withdraw from course(s) WITH a grade of W without Committee on Academic Policy and Standards approval. Last day to file for Fall 2022 Graduation.
Tue	May 17	Reading Day/ Final Examinations for mass exams only.
Wed - Tues	May 18 - 24	Final Examinations.
Tues	May 24	End of Spring 2022 term.
Fri	May 27	Final grade submission deadline. Commencement.
Mon	May 30	College is closed.
Mon	June 1	Spring 2022 Conferral date.
<p>*Students may still be liable for tuition. <i>Dates listed above are subject to change without prior notification.</i> Revised 8/4/2021</p>		

Mission, Vision and Values

Mission

York College enriches lives and enables students to grow as passionate, engaged learners with the confidence to realize their intellectual and human potential as individuals and global citizens.

Values

Integrity

York College embraces integrity as a central value in all aspects of its engagement including teaching, learning, research and service. Integrity will emerge from committed, continuing and rigorous evaluation of all college policies, procedures and processes.

Diversity

York College values cultivating a climate of acceptance, mutual respect and appreciation of unique differences across the human spectrum.

Intellectual Discovery and Creativity

York College values providing an intellectual environment where students and faculty will take ownership of and responsibility for excelling in academic inquiry, creativity, scholarship, research, interdisciplinary collaboration and professional growth.

Intentional Interactions

York College creates opportunities for productive and creative intentional interactions among the various groups of the college to foster a small college atmosphere.

Self-Reflection and Accountability

Each member of the York Community, on an ongoing basis, will reassess their effectiveness, identify challenges, create a plan to meet the challenges, and improve decision-making and institutional effectiveness.

Civic Engagement

Each member of the York College community assumes personal responsibility and awareness of our respective communities and strives to serve the common good.

About York College

York College, a senior college of The City University of New York (CUNY) in Jamaica, Queens, was founded in 1966 under the temporary name, Alpha College. York spent 20 nomadic years throughout Queens until pressure from students, faculty, staff and the external community of political, religious and generally engaged citizens, materialized in the magnificent 50-acre campus York now calls home.

In fall 2009, York reorganized its academic units into three distinct schools: Business and Information Systems; Health Sciences and Professional Programs; and Arts and Sciences. New programs have been added in aviation management, journalism and pharmaceutical sciences, and a four-year nursing program was implemented in 2011, which includes a high tech state-of-the-art simulation laboratory. York currently offers a BS in Gerontology and a BS/MS in Occupational Therapy, the only ones of their kind within CUNY. In 2014, the School of Health and Behavioral Sciences was re-organized and renamed the School of Health Sciences and Professional Programs.

York College is registered by the New York State Education Department (Office of Higher Education and the Professions, Cultural Education Center, Room 5B28, Albany, NY 12230; 518-474-5851). It is accredited by the Middle States Commission on Higher Education, 3624 Market Street, Philadelphia, PA 19104-2680; 267-284-5000.

- Accreditation Review Commission on Education for the Physician Assistant, Inc.
- The American Occupational Therapy Association, Inc.
- Accreditation Commission for Education in Nursing
- Council on Social Work Education
- Council for the Accreditation of Educator Preparation
- The National Accrediting Agency for Clinical Laboratory Sciences
- Commission on Accreditation of Allied Health Education Programs

Since its first commencement exercises in 1971, York has graduated more 30,000 students and counts among its proud graduates, hundreds of physicians, research scientists, educators, attorneys and business executives in media, finance, technology and leaders in the United States Military.

The college's physical environment is constantly evolving to meet the changing requirements of students, faculty, programs and staff. Interior and exterior spaces are being upgraded and modernized to enhance learning, teaching and co-curricular experiences.

In July 2020, Dr. Berenecea Johnson Eanes was appointed the seventh president of York College and has set out a promising agenda based on the One York Strategic Plan.^[1]

It will build on York's rich history with twenty-first century demands and realities.

Bulletin is accurate as of October 6, 2021. Updates can be found on the York College website.

1. <http://york.cuny.edu/president/institutional-effectiveness/planning/strategic-planning-2020-23>

Admissions

As one of the senior colleges of the City University of New York, York College participates in centralized application procedures for freshmen, transfer and international students. The application form can be accessed on the CUNY website.^[2]

The York College Office of Admissions is located in the Academic Core Building, AC-1B07, 94-20 Guy R. Brewer Blvd., Jamaica, New York 11451. Prospective students and their families are strongly encouraged to visit the campus. Campus tours and information sessions are available by appointment throughout the year, and originate in the Office of Admissions. Please call 718-262-2165 or register online.^[3] Admission counselors are available to answer questions and to discuss student's educational goals and opportunities at 718-262-2165. Admission information can also be obtained on the Admissions Website.^[4]

Freshman Admission

Students who have not attended a college, university, or postsecondary institution, are considered freshmen. Freshman applications must be accompanied by the appropriate application fee and official copies of any documents (i.e. GED/TASC, SAT/ACT and/or TOEFL/IELTS/PTE scores) that are required to support the student's eligibility for admission. Please note that recent high school graduates (within one year of graduation) are still required to show proof of SAT/ ACT scores.

Admission is based on a variety of factors, and each applicant is considered individually. Freshmen are strongly encouraged to take a college preparatory program in high school that includes courses in English, Mathematics, Laboratory Science, Social Science, Foreign Language and Fine Arts.

All students are subject to City University of New York testing requirements. For details, see the Testing Center website.^[5]

An applicant who fails to meet all of the above criteria may still be considered for admission if she or he shows evidence of strong academic preparation, such as exceeding the minimum requirements in college preparatory classes, or strong performance on other assessments of academic skills, such as Regents examinations. More flexible admission is available through

the SEEK Program. For information on SEEK requirements consult this bulletin (under SEEK section) or contact 718-262-2300.

Transfer Admission

Applicants who have attended college, university and/ or proprietary school after graduating from high school **or** having received a GED/ TASC, are considered transfer or advanced standing students. This applies whether or not you are seeking transfer credit and/or changing your program of study. An official transcript from each college university and/or proprietary school attended and proof of high school graduation is required of all applicants. Transfer admission is based on a student's overall grade point average (GPA), including courses taken at all institutions attended since graduating high school. For students transferring with fewer than 12 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/ TASC score in effect for freshmen at the time of admission. Please note: Recent high school graduates (within one year of graduation) are still required to show proof of SAT/ ACT scores. Students transferring to York College must complete at least 40 credits at York, with at least half of the credits in the major program taken at York. For some programs, students will be required to take additional credits to complete the requirements for the baccalaureate degree. For the Bachelor of Arts degree, at least 90 credits must be in the liberal arts. For the Bachelor of Science degree, at least 60 liberal arts credits are required. An overall minimum "C" average in all college work is required for graduation from York. To apply, please visit CUNY's Website.^[6]

Evaluation of Prior College Credits (Transfer Credits)

Transfer credits can only be evaluated for schools that are listed on the student's Admissions 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 departments.

In general, credit is granted for a course, which is considered equivalent to a course at York and for which the student received the grade of "D" or better at a unit of The City University, or "C" or better at any other accredited institution. "Blanket credit" is given for courses,

2. <http://www.cuny.edu/>

3. <http://york.cuny.edu/admissions/campus-tours-1>

4. <http://york.cuny.edu/admissions>

5. <http://york.cuny.edu/testing>

6. <http://www.cuny.edu/apply>

within disciplines available at York, which have no equivalency 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 advisement and counseling from the appropriate departments prior to registering for their first semester at the college. Students cannot receive credit a second time for a course already completed at another institution. Credits will not be granted from school(s) not listed on the student's Admissions application.

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 senior colleges. Students who have taken courses at a senior college and two-year college will be able to transfer a maximum of 80 credits.

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.

Special Examinations

Credit will be granted for the following examinations:

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

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

Community Professional Program

The Community Professional Program was established at York College to enhance the educational opportunities for adult students. College credits are granted in recognition of voluntary work that reflects a variety of quality learning experiences. (Paid experiences may be considered in

conjunction with voluntary work.) Each experience must have taken place within the United States and must be verifiable by three people who have knowledge of the student's activities.

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

- 25 years of age or older
- 3 years of intensive community experience
- completed a minimum of 28 credits at York College
- passed all skills assessment tests
- minimum GPA of 2.50 on all work completed at York College
- 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.

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 status upon acceptance to York College. Admission to York College is based upon the academic record and the Test of English as a Foreign Language (TOEFL), or International English Language Testing System (IELTS) or (PTE Academic) Pearson Test of English Academic) scores for those whose primary language is not English. In addition, all academic transcripts must be official and translated into English or they may opt to have their transcripts evaluated by one of the evaluation services listed below:

- Josef Silny and Associates^[7]
- Transcript Research^[8]

In addition to any other admissions criteria, all students must demonstrate readiness for college-level work in reading, writing, and mathematics prior to enrollment. International students will need to obtain an Immigration Certificate of Eligibility (Form I-20), in order to enter and/or remain in the U.S. as an F1 student. This requirement applies whether you are a new student, a transfer student from another U.S. university/college/school or a student transferring between CUNY colleges.

7. <http://www.jsilny.com/>

8. <http://transcriptresearch.com/>

For more information about the application process 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

The Percy E. Sutton SEEK Program

The SEEK (Search for Education, Elevation and Knowledge) 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 that advanced 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 opportunity program for students who are:

1. entering college for the first time
2. in need of financial assistance
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 them with academic, counseling, and financial services.

Academic services include: Selected Pathways courses designated for SEEK students only; SEEK counseling courses; learning skills workshops; one-on-one topic-specific tutoring; and, small group tutoring sessions. 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 SEEK Office is located in Room AC-1C08. 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. Incoming students must attend and successfully complete the mandatory Pre-Freshmen Summer Program. Furthermore, all students must be deemed economically eligible for SEEK by the SEEK Financial Coordinator before they are officially accepted into the program. The coordinator is located in the Student Financial Services Office in AC-1M08. 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
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.

An application for non-degree status^[9] can be downloaded online. Applicants who have completed postsecondary work should submit the non-degree application and "unofficial" (Registrar issued) transcripts from all postsecondary 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.

9. <http://york.cuny.edu/admissions/assets/nondegreeapp.pdf>

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 and/or official copy of the evaluation done by one of the evaluation services listed below:

- Josef Silny and Associates^[10]
- Transcript Research^[11]

Applications for non-degree (non-matriculated) to degree (matriculation) status are available on the Registrar's website.^[12] 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 approved for degree status must satisfy the General Education and major degree requirements contained in the college bulletin in effect for the semester the student matriculates. Further information can be obtained at: Non-Degree Admission Application.^[13]

Readmission

Students who have not been in attendance at the college for one or more semesters must follow the policies and procedures in the Bulletin that is in effect at the time of their readmission except for the following:

1. Students who have been separated from the college for 2 or more semesters must follow **Pathways General Education** requirements as stipulated in the Bulletin in effect at the time of their readmission.
2. Students who have been separated from the college for 3 or more semesters must follow **Major** requirements as stipulated in the Bulletin in effect at the time of their readmission.

There is a non-refundable readmission fee of \$20.00. If the student has been in attendance at any college other than York, the student must list the college on the readmission application and have an official transcript sent directly from the institution to **Office of the Registrar, Academic Core Building, Room 1H06, York College, Jamaica, NY 11451, Attention: Readmission.**

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 Policy and 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 form with the Office of the Registrar at least one month before the beginning of the semester for which they wish to be readmitted. An application for readmission may be secured online.^[14]

10. <http://www.jsilny.com/>

11. <http://transcriptresearch.com/>

12. <http://york.cuny.edu/registrar/registrars-form>

13. <http://york.cuny.edu/nondegreeapp.pdf>

14. <http://york.cuny.edu/registrar/re-admission>

Tuition and Fees

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

Payment of Tuition and Fees

Students must be prepared to pay all tuition and fees associated with their registration by the payment due date. The Office of the Bursar will not mail bills. Students may view their bills on CUNYfirst. Once a student registers for classes, that student assumes financial responsibility. If the student chooses not to attend, the student must drop the courses before the first day of classes to avoid any tuition liability. Failure to do so automatically entails a financial obligation on part of the student.

Interest-free tuition payment plans are available through Nelnet during the summer, fall and spring semesters. Students must enroll online through their CUNYfirst accounts. For additional information, Nelnet representatives are available Monday through Friday, 8:00a.m. to 10:00p.m., and Saturday 9:00a.m. to 3:00p.m., at 888-470-6014.

Students may opt to pay their tuition and fees online by using the CUNYfirst ePayment options that include eCheck and eSavings.

Cash, money orders, bank checks, certified checks and personal checks are accepted at the Office of the Bursar service window. Checks and money orders must be made payable to York College and have a current date. Third party, postdated checks, credit and debit cards will not be accepted. Personal checks are not accepted for prior semesters. A student who issues a check or eCheck payment that is either returned by the bank or not processed by the processing company will be liable for tuition and fees, in addition to \$20.00 reprocessing fee. Also, checks will not be accepted for future payments and a negative service indicator will be placed on the student's account. A stop payment on a student's check does not cancel registration. A student must officially withdraw.

If students do not make full payment of their tuition and fees and other college bills, accounts will be turned over to a collection agency six months after the end of the semester. Students will be responsible for all collection costs, in addition to the amount owed to the college. A nonpayment of default judgment against the student's account may be reported to a credit bureau and reflected

in his/her credit report. Accounts in collections must be paid directly to the collection agency; the Office of the Bursar cannot collect these debts.

For billing and payment information, refer to the Office of the Bursar's website at www.york.cuny.edu/bursar^[15]

Senior College Tuition

Undergraduate	New York State Residents	Non-Resident and International Studies
Full-time	\$3,465 per semester	\$620 per credit
Part-time	\$305 per credit	\$620 per credit
Non-Degree	\$445 per credit	\$915 per credit
Graduate	New York State Residents	Non-Resident and International Student
Full-time	\$5,545 per semester	\$855 per credit
Part-time	\$470 per credit	\$855 per credit
Maintenance of Curriculum	\$225 per semester	\$370 per semester
Excellence Fee	\$800 per semester	\$800 per semester
Masters in Social Work	New York State Residents	Non-Resident and International Students
Full-time	\$7,315 per semester	\$1,000 per credit
Excess Hours	\$65 per excess contact hour	\$85 per excess contact hour
Senior Citizen Fee	\$65 per semester or session plus \$15 consolidated service fee and technology fee	-

Tuition and fees set forth in this publication are similarly subject to change by action of the Board of Trustees of The City University of New York at any time. In the event of any increase in the tuition or fees, payments already made will be treated as a partial payment. Notification will be

15. <http://www.york.cuny.edu/bursar>

given of the additional amount due and the required date of payment. The University regrets any inconvenience this may cause.

Occupational Therapy Dual Program - Combined BS/MS Program

- Students in combined programs will pay undergraduate tuition rates up to 120 credits, or the number of credits required to earn a baccalaureate degree in that particular program. Any credits taken after that number (120) toward the combined degree are to be paid at the graduate level.
- Students enrolled in the BS/MS degree Occupational Therapy program who have earned greater than 120 credits will be charged graduate tuition. Students identified as undergraduates during the registration process, will be retroactively charged graduate tuition, if upon the completion of courses they are currently taking, they have earned greater than 120 credits.

Senior Citizens

Senior citizens who are New York State residents who are 60 or older 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

1. **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 home/ address/ or dwelling 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 home/ address/ or dwelling 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.

2. **Non-Residents of New York State and Out of Status (Undocumented) students** - Non-residents of NYS and out-of-status (undocumented) students who attend a NYS high school for at least two years and graduated, or obtained a NYS GED diploma, may apply for in-state tuition if they apply to CUNY within five years of receiving their diploma.
3. **Lower Division** - A student who has earned fewer than 60 credits.
4. **Upper Division** - A student who has earned 60 or more credits as of registration. This includes students who have earned a baccalaureate degree.
5. **Full-time** - A student who is enrolled for 12 or more credits or the equivalent.
6. **Part-time** - A student who is enrolled for fewer than 12 credits or the equivalent.

Association, University Student Government and Consolidated Fees

Fee	Full-Time	Part-Time
Association Fee	\$72.15	\$52.15
Consolidated Fee	\$15.00	\$15.00
Technology Fee	\$125.00	\$62.50
University Government Fee	\$1.45	\$1.45
Total Per Semester	\$213.60	\$131.10

Technology Fee

The full-time technology fee of \$125 or the part-time fee of \$62.50 will be added to the bill. The technology fee for the summer session is \$62.50. 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.

Materials and Transportation Fees

There may be additional costs and fees associated with identified courses. Courses with a fee attached will be identified in the bulletin with a "\$." Check the List of Course fees for specifics. For more information go to Materials and Transportation Fees, or go to the Course Fees FAQ's webpage.^[16]

16. <http://york.cuny.edu/coursefeesfaq>

Readmission Fee

Students who are readmitted to the University after an absence of one or more semesters (exclusive of summer session) shall be required to pay a readmission fee of \$20.00. This fee is not refundable.

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 \$25.00 for the first examination and \$5.00 for each additional examination.

Late Registration Fee

A charge of **\$25.00** is made for registration after the close of the official registration period. This fee is not refundable.

Non-payment Service/Late Payment Fee

Students who are delinquent in paying tuition and fees by the college's established due dates will be required to pay a \$15.00 fee for each missed due date in addition to all other outstanding college obligations.

Returned (NG) Check Processing Fee

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 \$20.00 fee will be charged for each check that requires reprocessing. Electronic payments, made online, that are rejected for any reason will also be charged a reprocessing fee. The student will be required to satisfy the obligations, the returned check processing fee and a non-payment service fee of \$15.00 for each due date missed.

If a check or eCheck (electronic payment) is returned for any reason, the student's check writing privileges on campus will be revoked.

Duplicate Diploma Fee

There will be a \$30.00 charge for each duplicate diploma.

Duplicate ID Card

There will be a \$10.00 charge for duplicate IDs.

Developmental Courses Fee

All courses taken by part-time students will be charged on a credit basis except developmental courses which will be charged on an equated hours 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.

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

Course	Financial Aid Hours	Credits	Equated Hours
ESL 145	6	2	6
ESL 150	6	2	6
MATH 102	3	1	3

Refund Policy

The date on which the Change of Program and/or the Withdrawal is **submitted to the College**, through CUNYFirst or the Registrar's Office is considered the withdrawal date, not the last date of attendance in class. It is the official date of the student's withdrawal and will serve as the basis for computing any refund granted to the student. No portion of the Association Fee, University 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.

Refund schedule

See Academic Calendar.

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. 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 also liable 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.

Change in Status from Full-Time to Part-Time

As an example, the calculation is as follows:	Cost
Tuition paid as full-time student	\$3,465.00
Tuition as part-time student taking 9 credits (\$305x 9)	\$2,745.00
Difference	\$720.00
Assume that 3 credits are dropped within the first week of classes. The student receives a 75% refund of above difference (\$720x75%)	\$540.00
Effective tuition as part time student (Full Time tuition less refund)	\$2925.00

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 The City University of New York.

Academic Policies

Registration: General Information

Please consult the Office of the Registrar webpage regarding course schedule and registration information.^[17] Some courses listed in the Bulletin or CUNYfirst course catalog may not be offered every semester. All eligible students are notified in their CUNYfirst account regarding enrollment for fall, spring semesters and winter, summer sessions. Students are assigned a specific day and time on which to register. Students may not register before their appointed time.

Size of Program / Full-Time Status

The normal number of credits for full-time status is 12. However, 15 credits are recommended to [MH1] [See page 22] so that a student may graduate within 4 years. The maximum number of credits that a student may register for is 18. A student who wishes to register for more than 18 credits must secure written approval in advance of enrollment from the Committee on Academic Policy and Standards. The Committee on Academic Policy and Standards also addresses the number of credits for which a probationary student may register. Students on probation may register for a maximum of 12 credits and/or; the size of their program may be less than 12 credits in accordance with any conditions stipulated by the Committee on Academic Policy and Standards.

Procedures for Change of Program and Course Withdrawals

Office of the Registrar

- During the first week of classes, a student may withdraw, add or change from one or more course(s) and/or of the same course by logging onto their CUNYfirst account or stopping by the Office of the Registrar during business hours. Any such changes will incur a change fee and/or tuition fees. The program change fee is \$18.00.
- During the second and third weeks of classes, a student may withdraw from a course or courses by logging onto their CUNYfirst account or stopping by the Office of the Registrar during business hours.
- Withdrawals during these first three weeks will not appear on the student's transcript but the student may be liable for tuition.

- **Note:** There is no fee for withdrawals (although students may be liable for tuition); there is an \$18.00 program change fee (and the possibility of additional tuition).
- A student may withdraw from a course or courses from the fourth through the last day of classes by logging onto their CUNYfirst account or stopping by the Office of the Registrar during business hours. This action will be recorded on the student's record with a grade of " **W**," in accordance with CUNY's regulations.

Auditing of Courses

Students will be charged **regular tuition and fees** connected to the course, except for senior citizens. Any student seeking to audit a course may secure the form for permission to audit courses from the Registrar website. Students must register for the course during the regular registration period, and will be given an "AUD" grade. **This grade is irreversible.**

ePermits and NON-CUNY

A currently enrolled matriculated student may take courses at another accredited institution by filing an ePermit for a CUNY college on their CUNYFirst account.^[18]

The Office of the Registrar may grant permission for dual enrollment; however, the request must be processed prior to the registration period for both institutions. York College will not issue or approve retroactive permits. **Each ePermit request is for a single course for a specific term.** Courses taken by epermit must be equivalent to a specific course at York College (the Home college) and fulfill a specific degree requirement.

Who is eligible to apply for an ePermit?

- Matriculated students currently registered at York (Home) College.
- Students who have a 2.0 GPA or higher with the exception of ROTC freshmen.
- Students without any stops or negative holds on their records.
- Students with all York College's registration requirements including immunization completed.
- Newly admitted, continuing Macaulay Honors College and CUNY BA students who have advisor approval.

17. <http://york.cuny.edu/registrar/course-schedule>

18. <http://york.cuny.edu/registrar/epermit>

Permit Requests Will Not Be Approved for

- Non-degree students.
- Newly admitted students prior to completing their first term at York (Home) College (even if they are a transfer student).
- Courses with no York (Home) College course equivalent will not be granted.
- Students whose schedules exceed the maximum credit load for each semester or session (credit load= course(s) at York (Home) + course(s) on permit).

CUNY ePermit

The CUNY Permit system is currently available on CUNYFirst. Student's interested in applying for an ePermit for the upcoming semesters should visit the ePermit^[19]

Once a CUNY Permit is approved

A student granted approval to take a course(s) on ePermit will be contacted via e-mail by the Host College with a registration appointment time. Normal registration procedures should then be followed by the student as indicated by the Host institution.

****Note:** An ePermit approval only grants permission to take a course at another CUNY institution and does not enroll the student or guarantee a seat in a course.* *

Cancellation of an ePermit

If a student enrolls in a course at the approved Host College and decides **NOT** to participate in the course, **it is the student's responsibility** to cancel the course registration at **both Home and Host College** by canceling the ePermit request and withdrawing from the course. The student must notify York College of the cancellation before classes begin to avoid tuition liability and to prevent any academic consequences. Any student who drops a course at the Host College during the refund or withdrawal period will be held liable for tuition and fees according to the Host College's refund schedule.

Tuition for ePermit

All tuition for an approved ePermit course **must be paid** to the Home (York) College (additional fees are paid to the Host College.) Students eligible for financial aid are to apply through their Home (York) College and are **responsible for meeting any credit load requirements**. *Tuition is based on the number of credits*

for the Host College course. Courses for which material fees are required are paid by the student to the Host College.

Financial Aid for ePermits

If a student cancels the ePermit or fails to register for the requested course at the Host College for which the student expects to obtain financial aid, *it is the student's responsibility to make certain that the credit load meets financial aid eligibility requirements. Questions concerning financial aid must be addressed to a financial aid counselor at the Home (York) College.*

Grade for ePermits

Courses will be transferred to the Home (York) College and recorded with the grade assigned by the Host College. The grade will be included in the cumulative GPA. Only letter grades will be accepted for fulfilling General Education/ Pathways requirements and Major/Minor requirements. Grades of "P" are not acceptable to fulfill degree requirements except for free electives. The number of credits transferred for each course will be equivalent to the value assigned by the Host College and not the Home (York) College.

Non-CUNY Permits

A currently enrolled matriculated undergraduate student who wish to take a course(s) at a non-CUNY institution must complete a Non-CUNY Permit form. The Office of the Registrar may grant permission for dual enrollment; however, the request must be processed prior to the registration period for both institutions. Home (York) College will not issue or approve retroactive permits. Each permit request is for a single course for a specific term. Courses taken on the permit must be equivalent to a specific course and fulfill a specific degree requirement. Only students in good academic standing will be eligible to apply.

- Students must complete the Non-CUNY Permit form which is available on the York College website and submit to the Registrar's Office for review.
- The course evaluation section of the Non-CUNY Permit form must be completed and signed by the Department Chairperson for which the course is for.
- If the Office of the Registrar approves the permit, the form will be signed and stamped with the college seal. A copy of the form will be given to the student for the Host College.
- Students should keep a copy of the Non-CUNY Permit form for their records.

19. <https://york.cuny.edu/registrar/epermit>

- All tuition and fees must be paid at the Host College.

Permit Requests Will Not Be Approved for

- Non-degree students.
- Newly admitted students prior to completing their first term at Home (York) College (even if they are a transfer student) *with the exception of ROTC and CUNYBA students.*
- If the course evaluation section of the Non-CUNY Permit form is **NOT** completed and signed by the Department Chairperson for which course(s) is for *with the exception of courses for ROTC students.*
- Students who have completed 60 or more credits who request permits to a Non-CUNY Community College.
- Students whose schedules exceed the maximum credit load for each semester or session (credit load = courses at York + courses on permit).
- Students who have an undeclared Major after completing 60 credits or more. **Note:** Also refer to Epermit section.

Grade for Permit (non-CUNY) Permit

Only courses for which the student receives a grade of "C" or better will be transferred to the Home (York) College and recorded on the student's transcript. Grades of "P" are not acceptable. The number of credits transferred for each course will be equivalent to the value assigned by the Host College and **NOT** the Home (York) College.

Note: Courses taken on ePermit designated as Writing Intensive (WI) and/or Pathways will transfer as such to Home (York) College. Courses taken on a Non-CUNY Permit designated as (WI) will **ONLY** be transferred with the (WI) designation if posted as such on the Host College Transcript. If not posted as a (WI) on the transcript the student will have to file an appeal with Committee on Academic Policy and Standards.

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 for 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 an 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.

Academic Participation in a Course

Students are expected to participate in each class session. An instructor **may at any time** require that a student accounts for non-participation by giving a personal explanation (and, for SEEK students, to their counselor).

Any student who has been excessively absent from participating in a course, and does not present adequate documentation to the instructor, may receive the grade of **WU** (unofficial withdrawal).

Instructors will be required to fill out a Verification of Enrollment (VOE) roster for their courses indicating if students have never participated in an academically-related activity or have participated in the course. Any student noted as never participating will receive a grade of WN processed to his/ her record, The WN grade indicates non-participation and in non-punitive.

Note: A student receiving a WN grade may still be liable for tuition and fees. Courses with WN grade will not be counted toward Financial Aid eligibility and may result in loss of aid. However, a student receiving a WN grade may still be liable for tuition and fees.

Declaring of Major/Minor

York College students who have decided on a major, or have decided to change their major/minor, **MUST** Declaration Major/ Minor form with the Office of the Registrar. Students need to be aware that a change of major or minor may have an effect on financial aid eligibility (see the section on Satisfactory Academic Progress).

Note: Students should be aware that the Major/Minor requirement reflected in the Bulletin at the time of declaration will apply. Deadline for Declaration of Major/ Minor form **MUST** be submitted to the Office of the Registrar no later than 21st day after the semester begins including weekends and holidays. Forms received on or after the 22nd day deadline will not be processed. Student will need to reapply the following semester.

University policy is that matriculated students who have earned **60 credits** or more must declare a major in a baccalaureate degree program. This policy has been established to facilitate completion of a student's degree within a timely manner. The Office of the Registrar will place a hold on the student's record which will prevent the enrollment of classes until a major is declared. A major form can be obtained on our web page <https://www.york.cuny.edu/registrar/registrars-form/declaration-major-minor/view> [See page 0].

Applying for (in state) Resident Tuition Rate

Applications for change from non-resident to resident tuition rate are available through the Office of the Registrar. All required documentation is to be submitted on or before the last day of finals in the semester for which resident tuition is being sought.

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

Non-Degree to Degree

Non-Degree undergraduate students who complete six (6) or more credits at York College, with an overall grade point average of 2.50 or better, may file for Degree status through the *Office of the Registrar*.

Second Degree

All applicants who are applying for a second degree follow the same application procedures as transfer students. Students who have earned a baccalaureate degree from York College, and wish to be accepted for a second baccalaureate degree must apply to the office of Admissions to complete a second degree application^[20]. If accepted, the student must complete a minimum of 40 credits at York College in order to earn a second degree.

At least 75% of the course requirements of the major program of the second degree must be completed at York.

General Education Requirements

Transfer Students

Students with an A.A. or A.S. degree are exempt from the Pathways Common Core and lower division WI requirements, but **are required to complete the six credits** Pathways College Option requirement. Students with a Bachelor's degree **are exempt** from all Pathways and lower division WI requirements, including the College Option requirement.

Note: Certain professional programs may still require Pathways courses in their pre-major/minor curriculum. All students are required to complete an upper level division WI course within each declared major.

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.

Grading Policy

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). Assigned grades (A+ through F and W, WU), once assigned, stand as final evaluations. An assigned grade may not be changed later by additional assignments, retesting, or auditing a class.

Grade	Index Value	Numerical Value
A+	4.0	97.0-100
A	4.0	93.0-96.9
A-	3.7	90.0-92.9
B+	3.3	87.0-89.9
B	3.0	83.0-86.9
B-	2.7	80.0-82.9
C+	2.3	77.0-79.9
C	2.0	73.0-76.9
C-	1.7	70.0-72.9
D+	1.3	67.0-69.9
D	1.0	60.0-66.9
F, FIN, WU, Z	0.0	0-59
PEN	—	—
AUD, NC, P, R, W, WA, WD and WN and WU	—	—

Dean's List

At the end of each Fall and Spring semester, students with excellent academic records are recognized with the Dean's List notation on the student transcript. The criteria for inclusion is established as follows:

1. 3.5 GPA.
2. Full-time status is defined as 12 graded credits per academic semester.
3. A bona fide part-time status is defined as 12 graded credits in an academic year (September to May).
4. Computation of Dean's List nominees will be based on:
 - The grades of A+ through F.
 - Grades of INC, NC, R and WU are calculated as F grades for Dean's List.
 - Grades of PEN, W, WA, WN, AUD, WD and Z are excluded from calculations.

20. <http://york.cuny.edu/admissions/others/second-degree.html>

- Eligibility will be calculated when all grades have been processed by the Office of the Registrar, Retroactive Dean's List is not awarded should a student receive a grade change after the fact.

Computation of Grade Point Average (GPA)

The scholastic index (GPA) is calculated by multiplying the total number of credits earned by the 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 AUD, NC, R, W, WA, WD, WN, P and are counted, while FIN is counted as failures and attempted credits. 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 Value	Total Credits Earned for Each Letter Grade	Total Quality Points (QP) Earned Per Grade
A+	4.0	3	12.0
A	4.0	6	24.0
A-	3.7	6	22.2
B+	3.3	12	39.6
B	3.0	10	30.0
B-	2.7	15	40.5
C+	2.3	8	18.4
C	2.0	15	30.0
C-	1.7	3	5.1
D+	1.3	2	2.6
D	1.0	6	6.0
F, FIN,	0.0	3	0.0
Totals		89	230.4

230.4 Total QP's divided by 89 total credits attempted with grades = 2.588 GPA

When calculating GPA, the GPA is not rounded up. The GPA is truncated after the one-thousandth decimal point.

Passing Grades

Passing grades range from A+ to D and P. The C-, D+, D and P grades are not considered a passing grade in certain programs. Please consult individual Major Program descriptions for details. P is a passing grade, but it does not affect the student's scholastic index, and is **NOT** accepted by of major programs. *Please consult individual Major Program descriptions for details.*

Failing Grades

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

Effective September 1, 1990, in accordance with the resolution passed by the Board of Trustees of CUNY, an undergraduate student who earns an academic or administrative failing grade, at York College, that is computed in the cumulative GPA may retake the course, at York College, and upon successful completion of the course with a grade of C or better have the failing grade no longer computed into the GPA. This resolution applies to grades of C or better received for courses retaken in the Fall 1990 semester and thereafter.

The **maximum number of failing credits** that can legally be excluded from the computation of a student's GPA is limited to 16 for the duration of the student's undergraduate enrollment in CUNY. If a student transfers from one institution 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 GPA, repetition of the course must take place at the same institution 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 GPA, and the total number of credits of F not calculated in the GPA will be charged against the 16-credit limit.

Failing grades may not be partially deleted from the GPA. 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 GPA. A grade of C or better in a three or more credit course will not be eligible for this rule. If a student does NOT wish to have a failing grade deleted from the cumulative GPA, 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 enrolled at the college when the request is made. The GPA calculated on the basis of this CUNY policy is to be used only for the purposes of retention at and eligibility for graduation from the College, including admission to and continuance in a major or concentration. All failing grades will be considered in the calculations for any honors.

AUD - Auditing

The AUD grade is assigned when a student or senior citizen registers for a course just to observe. Enrolling in a course on an audit basis gives the student the right to attend and participate (but is not required to do the coursework) in all aspects of the course without receiving credit for the course. The course **will not** count toward any degree or certificate program.

INC - Incomplete

A grade of "INC" indicating incomplete coursework may **ONLY be** assigned by an instructor after consultation with a student who, because of extenuating circumstances, has not taken the final examination and/or completed the

coursework, and there is a reasonable expectation that the student can successfully complete the requirements of the course. *The INC grade is assigned at the discretion of the instructor.* The student has up to 10 weeks in the subsequent semester to complete the work and have the grade resolved even if a student is not registered in the subsequent semester. Grade changes resolving INC grades must be received by the Office of the Registrar by the tenth week of classes of the subsequent semester. (See Academic Calendar for the exact due date.) Example: an INC given to a student in the Fall semester must be resolved before the 10th week of the following Spring semester. Grades received after the deadline will not be processed unless the student has obtained approval from the Committee on Academic Policy and Standards (CAPS).

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 (can only be changed by appealing through CAPS). This grade is considered an F grade when computing the academic index. When compiling the Dean's List, INC grades are calculated as F. Students who are up for graduation **CANNOT** graduate until the INC is resolved or covered into a FIN.

F - Failing

A grade of "F" is assigned to students who completed the course and failed in meeting the requirements for the course as evaluated by the instructor. (in the *judgment* of the instructor, does not deserve college credit). This grade is calculated in the GPA as **0 and gives no credit.**

FIN - Incomplete Changed to F

A grade of "FIN" indicates a student's failure to complete coursework by not resolving an INC grade. Undergraduate students who receive an INC grade at the end of any semester must complete all outstanding course work **by the tenth week of the next subsequent semester.** The Registrar's Office Office of the Registrar will convert all INC grades to FIN if the INC is not resolved.

A FIN grade **counts as an F** in computing the GPA.

PEN - Pending

The "PEN" grade 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. The PEN grade must be resolved to letter grade by the end of the semester following the semester in which the course was taken.

P/NC - Pass/ No Credit

Effective Fall 2017 semester, York College will only use the NC grade to indicate no credit in Student Development 101-105 courses. It will no longer be submitted for failing grades in any other courses. These grades are not considered in computing the academic index.

Note: The P/NC deadline will not be extended.

Failure in the course or missing the deadline to select the Pass /Fail option **WILL NOT** be considered grounds for an appeal.

P/F - Pass/Fail

A student must have a 2.0 cumulative grade point average (GPA) or better at York College; must not be currently on academic probation and must be at least a lower Sophomore (30 credits completed). A student may not select Pass/Fail option for a course needed to fulfill General Education, Pathways and/ or Major or Minor requirements. Graduate level courses are not eligible for a Pass/Fail option. A student may not exceed six (6) courses on a Pass/Fail basis. Only one (1) course may be taken on a Pass/Fail basis per semester.

W - Withdrawal

This grade is given to a student in any course from which they officially withdraw prior to a penalty (not including tuition), indicating that the withdrawal was without prejudice. A "W" grade will **NOT** appear on the student's record (Official transcript) if dropped within the 1st 3 weeks of classes (does not apply to summer and winter classes). A student may withdraw from a course (s) by logging into their CUNYfirst account or stop by the Office of the Registrar during business hours.

WA - Administrative Withdrawal

The WA grade indicates an administrative withdrawal. It is a non-punitive grade assigned to students who were administratively suspended from classes. It has no index value and is not considered when calculating the GPA

WD - Withdrawal/Drop

This is a non-punitive grade assigned when a student drops a class after the financial aid certification date during the program adjustment period or refund period. The student **must have participated in at least one class session.**

Never Participated

The "WN" is a grade assigned to students who never participated the course and did not officially withdraw.

WU -Withdrew Unofficially

The "WU" grade indicates a student participated in at least one academically related activity and did not official withdraw. When a student does not officially withdraw

from a course and fails to complete the course requirements, the instructor assigns the "WU" grade on the final grade roster.

Repeated Courses

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

Warning: Students should be aware that other colleges and universities, as well as other institutions and agencies, may evaluate grades of P as C or D, and grades of NC as F. This may significantly lower a student's GPA.

Make-Up Examination(s)

Make-up examinations are final examinations taken at a time other than the formally scheduled time. Only students with a bona fide reason to take a make-up examination will be permitted to do so. Such permission may be granted only by the department chairperson or representative, and not by the instructor.

A student who missed the final examination and has received permission to take a "make-up final" must do so within one semester even if not enrolled, but early enough to enable the instructor to submit a grade by the last day of classes.

There is a \$15.00 fee for the first examination, \$5.00 for each additional examination.

Cumulative Point Value (CPV) and Academic Deficits

To determine the cumulative point value or deviation value the grade C is used as the reference grade. The Cumulative Point Value is calculated 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, WU, and FIN = -2.

Each student must have a Cumulative Point Value of 0 or greater to remain in Good Academic Standing. A student with a negative Cumulative Point Value is said to have an Academic Deficit and may be placed on Academic Probation.

Academic Probation and Retention

All students, regardless if they are matriculate or non-matriculate, who at the end of the Spring or Fall semester do not meet the retention standards of 2.0 or above (based on their cumulative GPA will be placed on probation at the end of the semester.

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

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

Summer and/ or Winter session(s) and grade changes during the semester do not immediately affect probationary status, which is reassessed only at the end of the Spring and Fall semesters. A student who is on probation will have a probation indicator added to their record, by the Counseling Center. The probation indicator prevents the student from registering for classes until the student reaches out to the Counseling Center. The probation indicator prevents the student from registration until the student reaches out for academic advisement. The probationary indicator will be replaced for future registration(s) until the cumulative GPA is raised to 2.0 or better.

Example A: A student who enters York College as a freshman in their first Fall semester with no credits transferred must achieve a minimum GPA of 1.5 on the first 12 credits attempted. If the student earns a lower GPA, the student will be placed on probation for the following Spring semester. If the student attempts 12 credits the following Spring semester, the student must have a cumulative GPA of 1.75 on the total of 24 credits attempted. If this GPA is not achieved, the student will be dismissed for academic reasons.

Example B: A student entering York College as a sophomore, transferring 24 or more credits from another college, who registers for 12 credits in their first Fall semester at York College, must achieve a GPA of 2.00 for the 12 credits because the total number of college credits attempted at York College and the previous college(s) total more than 24. If this student achieves less than a 2.00 **cumulative GPA**, the student will be placed on probation for the following Spring semester and must have a semester GPA of 2.01 index or better by the end of the following Spring semester or the student will be dismissed..

If a student is placed on probation they will be notified in writing by the Office of the Registrar and the Committee on Academic Policy and Standards (CAPS). Students on probation may only enroll for a maximum of 12 credits or the equivalent. A student whose program includes developmental courses may register for a maximum of 19 hours of course work. Although students may register for as many as 12 credits/19 hours, they are advised to take fewer credits.

The academic probation status remains on a student's record for the entire semester(s) until the student reaches the cumulative GPA of 2.00 or better. In addition, the student must achieve a term GPA of 2.01 each semester. If the student does not achieve a term GPA of 2.01 and the cumulative GPA is below 2.00 at the end of the Spring semester, the student will be dismissed. If not achieved by the following Spring semester the student is dismissed. Change of grades will only affect a student's GPA at the end of the semester in which the change of grade is posted. The probationary status will not be removed during the term due to a grade change.

For example: If a change of grade is submitted mid-semester resulting in the student's GPA being raised to the required cumulative 2.00 GPA, the probation status will remain on the student's record until the end of the next spring semester. **Conversely,** if the change of grade results in the student's GPA dropping below the required cumulative 2.00 GPA, the student will not be placed on probation until the end of that semester. Grades earned during the Summer and/or Winter session(s) will not affect a student's probation status.

Once a student is placed on probation and the student does not achieve the required term GPA of 2.01 by the end of the following Spring semester, the Office of the Registrar and Committee on Academic Policy and Standards (CAPS) will notify the student in writing that they have been dismissed for academic reasons after failing to meet the minimum retention standard while on probation.

A student **will not** be dismissed without being placed on probation for a minimum of one semester. The retention standards apply to all students regardless of whether they are matriculated or non-matriculated status.

Note: Professional programs **may have** additional retention and progression requirements.

A student who has been academically dismissed is separated from the York College and may not enroll for any credit-bearing course(s). The student may submit a petition to CAPS indicating the basis for consideration for readmission. The student will be notified by CAPS in writing of the decision. If the petition is approved, the student will be permitted to register for course(s) according to specific academic standards stipulated by CAPS.

Note: York College **adheres to readmission deadlines.** Students are encouraged to contact the Office of the Registrar regarding the deadline for filing an application.

Committee on Academic Policy and Standards (CAPS)

This standing committee of the York College Senate is charged to:

- review and recommend policies relating to the academic standards of the College, as well as the procedures for their implementation,
- hear and decide upon petitions and appeals of students deviating from established policy,
- recommend policy for the admission of students admitted through the University Admission Policy Committee,
- recommend policy for the admission of students to York College, and
- receive and review recommendations of policy addressing admission to professional programs.

CAPS has a membership of twelve, including students, faculty and administrators. Petition categories include:

- Appeal of Denial
- Appeal of Dismissal
- Excess Credit Allowance
- Extension of an Incomplete (INC) Grade
- Grade Appeal
- Grade Change
- Readmission
- Retroactive Leave of Absence
- Retroactive Withdrawal
- Retroactive Pass/Fail
- Waiver of Degree Requirements
- Other

All petitions must include a typewritten personal statement describing in detail the relief requested. The student must provide supporting documentation for all petitions. No petition will be accepted or acted upon after a student has been certified for graduation. There is a two-year limitation on petitions to retroactively change a transcript entry. If a student is separated from the College for four consecutive academic (Fall/Spring) semesters, the student must file the petition in the semester he/she is reinstated.

Appeal of Denial

A student may request reconsideration of a previously denied petition. The Appeal of Denial is the final level of review. An Appeal of Denial petition must be accompanied by additional documentation, including a typed personal statement; documentation of extenuating circumstances; and any other information not provided for the initial petition. Appeal of Denial petitions must be acted upon prior to the expiration of the two-year limitation for the previously denied petition.

Appeal of Dismissal

A student who has been dismissed for academic reasons may petition to be reinstated for the subsequent academic semester. A student may appeal a maximum of three dismissals; further appeals will not be considered. A student who is academically dismissed and has been separated from the college for one or more academic semesters must instead petition for Readmission.

Excess Credit Allowance

For students in good academic standing, the maximum number of credits for the Fall and Spring Semesters is 18; for the Winter Session, 6; for Summer Session I and Extended Summer Session, 6; for Summer Session II, 6. A student may petition for an excess credit allowance to exceed these limits. To be eligible for excess credit allowance, a student must have a minimum of a Grade Point Average (GPA) of 3.0 or better at York College, and have no outstanding Incomplete (INC) grades.

Extension of Incomplete (INC) Grade

A student may petition to extend the deadline to complete work for courses in which an INC grade has been assigned. The student must submit documentation of the extenuating circumstance that is preventing completion of the coursework by the published deadline. Written instructor and/or department support must be attached to the petition.

Grade Appeal

A student may appeal a grade to the Committee on Academic Policy and Standards within the first six weeks of the academic semester after receiving the grade.

Prior to submitting a petition appealing a grade, a student must attempt to resolve the issue by consulting with the instructor and the department chair for the course in question. If the issue is not resolved after consultation, a petition may be filed. In the Grade Appeal, the student must provide evidence that the instructor deviated from the published grading criteria and syllabus for the course. In addition, instructor and department chair input will be solicited by CAPS if not provided in the petition.

Decisions on grade appeals are advisory in nature, and decisions in the student's favor will be delivered to the student, the instructor, the department chair and the Office of Academic Affairs. A successful grade appeal indicates only that the student has submitted sufficient evidence to show that the instructor deviated from the [MH1] [See page 22] course syllabus and the published grading criteria and/or that evidence of bias in grading exists, and that a grade change may be warranted. CAPS does not have the authority to require that the decision of the grade appeal be reflected on the student's transcript.

Grade Change

The Committee on Academic Policy and Standards reviews the following categories of Grade Changes:

- Incomplete to final grade changes submitted after the tenth week deadline of the subsequent semester,
- Any other grade change that is past the one year deadline.

Except for assigned INC grades, grading may only be based on work done during the semester the course was taken. There is a two-year limitation on appeals for retroactive change of transcript entry. Grades cannot be altered once a student has been certified for graduation. Petitions for late grade changes must be accompanied by the official change of grade form, along with documentation from the instructor as to the reasons for the delay in correcting the grade.

Readmission

Students must file for readmission if they have been separated from the college for at least one academic semester and has a GPA of less than 2.0. Students with less than a cumulative GPA of 2.0 must receive CAPS approval prior to filing for readmission. To apply for readmission, the student must have passed the reading, writing and mathematics skills tests prior to filing for readmission.

Retroactive Leave of Absence

A student may petition for a Retroactive Leave of Absence from a particular semester. The student must request to withdraw from all courses in that semester.

Retroactive Withdrawal

A student may petition to change grades of FIN or INC to W, or to assign a grade of W in a course during the current semester for which the tenth-week deadline has passed. The academic department must certify the student's last date of class attendance, and the student must provide evidence of the extenuating circumstance that prevented official withdrawal by the deadline.

Retroactive Pass/Fail

A student may petition to elect a pass/fail option after the 10-week deadline, or to rescind a pass/fail option after the last day of classes for a particular semester. The student must submit supporting documentation of an exceptional circumstance causing the missed deadline.

Waiver of Degree Requirements

A student may petition for any of the following deviations from published degree requirements:

- Waiver of the college residency requirement.
- Waiver of the major residency requirement.
- Waiver of a General Education requirement.
- Substitution of a course to satisfy a General Education requirement.

Petitions must include documentation of the exceptional circumstances that prevent the student from satisfying the published requirements. Petitions must also include evidence of support for the deviation from the relevant academic department. Substitutions of major and minor program requirements are provided by academic department certification to the Office of the Registrar, not by petition through CAPS.

Other

In addition to the previously described petition types, consideration of other types of policy waivers may be referred to CAPS by other units of the College. The same

standards for supporting documentation and review will be applied to these petitions as to the previously defined petition categories.

Readmission

A student must file for readmission if he or she has been separated from the college for at least one (two or more consecutive semester) academic semester and has a GPA of less than 2.0 if they have a GPA of less than 2.0, they need CAPS approval. To apply for readmission, the student must have passed the reading, writing and mathematics skills tests prior to filing for readmission.

Financial Aid

The Financial Aid Office at York College provides instruction on the processes for applying, securing and maintaining eligibility for financial resources to meet educational costs, and ensures that every student is treated with the highest degree of professionalism, confidentiality, honesty and integrity. The Financial Aid Office is located in the Academic Core Building, room 1M08.

Virtual Financial Aid Office

During the pandemic the Office of Financial Aid has been operating a Virtual Financial Aid Office to assist students with inquiries in a similar manner to a physical visit. Please check the website for hours and instructions for how to access the Virtual Financial Aid Office. We have also established a secure portal on our website where all documents should be loaded. Our finaid email continues to be available to you as well as our remote office phones.

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 attending 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 Budget

The 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.

2020 - 2021 Nine Month Budget

Students Living at Home	Students Living Away from Home
See Tuition and Fees	See Tuition and Fees
Books and Supplies \$1,364	Books and Supplies \$1,364
Transportation \$1,122	Transportation \$1,122
Lunch \$1,360	Lunch \$1,360
Personal Expenses \$1,776	Personal Expenses \$4,533
Room and Board at home \$4,750	Housing \$13,905
–	Food at Home \$2,162
Total Variable Costs (+ Tuition/Fees) \$10,368	Total Variable Costs (+ Tuition/Fees) 22,373

Budget Adjustments

Child Care: Students who have dependent children under 13 years of age will be eligible for a budget allowance of up to \$6,120 if they are not receiving free daycare or funds from HRA.

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.

Financial Aid

Financial Aid 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. Financial Aid assists students in the application process and matches fund sources to students based on eligibility requirements. Updated information is maintained on the Financial Aid website.

Applying for Financial Aid

To apply, students are required to file the Free Application for Federal Student Aid (FAFSA)^[21]. When you file the FAFSA on the Web, you will be directed to a TAP application used to apply for state aid. To expedite the

21. <https://studentaid.gov/h/apply-for-aid/afsa>

application, you and your parents should request a Federal Student Aid ID (FSA ID). An FSA ID or Federal Student Aid ID is comprised of a username and password.

The FSA ID is an electronic signature, used to sign the Free Application for Federal Student Aid (FAFSA), loan promissory notes and other legal documents. Students and parents must have a legal or an official Social Security Number to create a FSA ID. In case the student's parents do not have a valid Social Security Number, the student must print the FAFSA signature page for parents to physically sign before mailing it to the U.S. Department of Education for processing.

The York College federal code is 004759 and the state code is 1418.

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)^[22]. The York College TAP school code is 1418. Students' state applications may be checked and updated at NYS Higher Education Corporation^[23]

New York State Programs

Tuition Assistance Program (TAP)

The New York State Tuition Assistance Program helps eligible New York residents attending in-state postsecondary institutions pay for tuition. Depending on the academic year in which the student began study, annual TAP awards range from \$500 to \$5,000.

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 applicable toward your degree program).
- Have graduated from a U.S. high school, or have a GED, or have 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 declared a major no later than 30 days from end of add/drop period in the first term of your junior year.
- Meet good academic standing requirement.
- Not be in default on any State or Federal made student loan.
- Meet income eligibility limitations.

Effective fall 1998, disabled students who meet the definition in the 1990 Federal Americans with Disabilities Act may receive TAP while attending less than full-time. Please check with Financial Aid, room 1M08, for updated information.

What are the income limits?

- Dependent undergraduate students or independent students who are married and have tax dependents - \$80,000 NYS net taxable income.
- Independent undergraduate students who are married and have no other tax dependents - \$40,000 NYS net taxable income.
- Single independent undergraduate students with no taxable dependents - \$10,000 NYS net taxable income.

What determines the award amount?

- 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 June 30 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, prior to dropping to part-time (6-11 credits) and maintain a "C" average. Part-Time TAP allows for a partial TAP payment for students taking 6-11 credits.

To be eligible for PTAP, a student must:

- Be a United States citizen or eligible non-citizen.
- 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.
- Have declared a major no later than 30 days from end of add/drop period in the first term of your junior year.
- Meet good academic standing requirements.
- Be taking 6 but fewer than 12 credits per semester.
- Not be in default on any State or Federal student loan.
- Meet income eligibility limitations.

Award Amounts

22. <https://studentaid.gov/h/apply-for-aid/afsa>

23. <https://www.hesc.ny.gov/>

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

Income Limits

Refer to the income limits for TAP.

Aid for Part-Time Study (APTS)

To be considered for an APTS award, students must meet the same eligibility requirements as the TAP program with one difference. It is a part-time program therefore, you must be registered for at least 6 credits but less than 12, of which 3 must be non-remedial credits. You must have completed the FAFSA, TAP application and the CUNY Financial Aid Supplement to be considered for APTS.

Income Limits

Eligibility for an APTS award is based on New York State net taxable income and federal, state, and local pension income from the preceding calendar year. If students were eligible to be claimed as tax dependents by their parents, the family's New York State net taxable income may not exceed \$50,550 including both the student and parent's 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, the New York State net taxable income, including spouse's income, may not exceed \$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.

Search for Education, Elevation and Knowledge (SEEK)

The Percy E. Sutton SEEK is a New York State program available at CUNY's four-year and comprehensive colleges and designed to assist students who are both academically and financially disadvantaged. To receive funds from SEEK you must complete both the FAFSA and TAP applications and you must register as a full-time student.

Admission into the SEEK program is part of the CUNY admissions process; there is no separate application. Admission is based on both the financial and academic need (see the Percy E. Sutton SEEK Program). If you are a new CUNY student and have been admitted into the SEEK program, your SEEK funding will not appear on your

financial aid award letter until you have submitted all the financial documents required to prove economic eligibility for these programs.

Excelsior Scholarship

The Excelsior Scholarship enables eligible New York residents to receive state support for 100% of any tuition costs which are not covered by other financial aid. Recipients of this award must have a family income of \$125,000.00 or less in 2019. Students must file the FAFSA, TAP and Excelsior applications by the published deadline, attend a CUNY or SUNY college full-time and complete 30 credits per academic year. Awardees must agree to reside in New York State and not be employed in any other state for the number of years equal to the duration they receive the Excelsior Scholarship. Please visit: NYS Higher Education Corporation^[24] for additional information.

Other New York State Scholarships and Awards

New York State offers a number of special scholarships for students who excelled in high school or who may be pursuing particular academic objectives. Please view NYS Higher Education Corporation^[25] for additional information including the Jose Peralta NY State Dream Act.

State Satisfactory Academic Progress Guidelines

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

- Students must accrue a specified number of credits per semester (see tables below).
- Students must achieve a minimum level of performance as measured by cumulative grade point average (GPA) per semester (see tables below).

All students will be measured against the State SAP components at the end of each semester to determine eligibility for receipt of TAP in the upcoming semester.

24. <https://www.hesc.ny.gov/>

25. <https://www.hesc.ny.gov/>

Table 1 - Applies to non-remedial students first receiving aid in 2010-11 and thereafter.

Before Being Certified For This Payment

1st 2nd 3rd 4th 5th 6th 7th 8th 9th 10th
Pursuit: A student must have completed this percentage of 12 equated credits if full-time, or this percentage of entire course load if part-time

0 50% 50% 75% 75% 100% 100% 100% 100% 100%

TAP payment points to be accrued

6 12 18 24 30 36 42 48 54 60

Academic Progress: A student must have accrued at least this many credits

0 6 15 27 39 51 66 81 96 111

With at least this grade point average

0 1.5 1.8 1.8 2.0 2.0 2.0 2.0 2.0 2.0

Table 2 - Applies to students first receiving aid 2007-08 through and including 2009-10, and remedial students 1st receiving aid in 2007-08 and thereafter.

Before Being Certified For This Payment

1st 2nd 3rd 4th 5th 6th 7th 8th 9th 10th
Pursuit: A student must have completed this percentage of 12 equated credits if full-time, or this percentage of entire course load if part-time

0 50% 50% 75% 75% 100% 100% 100% 100% 100%

TAP payment to be accrued

6 12 18 24 30 36 42 48 54 60

Academic Progress: A student must have accrued at least this many credits

0 3 9 21 33 45 60 75 90 105

With at least this grade point average

0 1.1 1.2 1.3 2.0 2.0 2.0 2.0 2.0 2.0

Note: Transfer students who have received two or more years of TAP are eligible for TAP in their initial term at York but must meet the "C" average requirement thereafter.

Maximum Eligibility

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. At the time of this publication, the New York State budget did not provide TAP funding for graduate students. 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. Extenuating circumstances, which will be considered by the committee, and which must be documented are as follows:

- 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. Students who fail to meet the State's academic standards will be notified and informed of their right to petition to waive Satisfactory Academic Progress (SAP) requirements.

Federal Student Aid Programs

To be considered for assistance under the Title IV federal student aid programs, a student must certify certain general eligibility requirements:

- Be a regular student enrolled or accepted for enrollment at York;
- Have a high school diploma or its recognized equivalent, or complete his or her state's requirements applicable to homeschooling;
- Not be simultaneously enrolled in an elementary or secondary school;
- Be a U.S. citizen or national, or an eligible noncitizen;
- Have a valid, correct Social Security Number (SSN);
- Be registered with Selective Service, if required;
- Certify by signing a Statement of Educational Purpose, that federal student aid will be used only to pay for educational costs;
- Not be in default of a Title IV loan or owe an overpayment on a Title IV grant or Federal Perkins Loan;
- Not have received grants or loans in excess of the annual aggregate limits;
- Not have property subject to a lien for a debt owed to the U.S.;
- Be maintaining satisfactory academic progress (SAP);
- Not have disqualifying drugs convictions; and
- Have financial need, if applicable.

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, 2020, 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. 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 or the entire award. A student who withdraws before payment is made may be eligible for a prorated award. For information, students should contact Financial Aid.

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.

Satisfactory Academic Progress

Federal regulations require the college to establish standards of Satisfactory Academic Progress (SAP) for purposes of the receipt of Title IV financial assistance. When appropriate, this policy may be applied to other aid programs administered by Financial Aid. 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, after two years of enrollment at the college, achieve a 2.0 GPA ("C") average and accumulate credits toward the degree according to the following standards:

- Achieved at least the GPA required for probationary status at York and
- Accumulated credits equal to, or greater than, a certain percentage of the total credits attempted according to the following:

Attempted 15 30 45 60 75 90 105 120 135 150 165 180 Credits

Earned Credits	0	5	16	27	42	50	63	72	84	95	108	117
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- Attempted no 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 who fall beneath the conditional standard may petition to the Satisfactory Academic 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 or two-semester probationary plan or 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 or not 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.

Other than having eligibility restored through filing a successful appeal, a student on financial aid suspension may regain eligibility only by taking action that brings him or her into compliance with the appropriate progress standard. The mere passage of time is insufficient to restore Title IV eligibility to a student who has lost eligibility due to not meeting the SAP standard. Therefore, students may not re-establish eligibility solely by leaving the institution for at least a year because this action, by itself, would not bring the student into compliance for Title IV SAP.

If a student is on financial aid suspension at the beginning of the academic year for not meeting one or more

components of the school's SAP standard, but meets them at some point later in the academic year, he or she may regain Title IV eligibility upon request of review of academic record.

Withdrawals

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

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

Incomplete Grades

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

Repeated Courses

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

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. Students will be limited to a Lifetime Eligibility Usage of 600% (maximum of 12 terms of full-time study or the part-time equivalent).

Award Schedule

In the 2021-2022 academic year, the maximum Pell Grant is \$6495. The amount of the award will depend upon your Expected Family Contribution, the cost of attendance, enrollment status, and whether you attend school for a full academic year, or less.

Federal Supplemental Educational Opportunity Grant (FSEOG)

FSEOG is a program which helps exceptionally needy students with educationally related expenses. FSEOG awards are made to supplement other forms of financial aid and do not have to be repaid. Awards depend on the level of student need and availability of funds.

Selection of recipients and allocation of awards to be eligible, you must be:

- A U.S. citizen or eligible non-citizen enrolled as an undergraduate student in approved post-secondary institution which is eligible to participate in the FSEOG program
- Enrolled for at least six credit hours 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.

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 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 and libraries. 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. Your earnings are determined by the rate of pay associated with your job, location, and the number of hours you work per week. The award ranges from \$900-\$2,500 per academic year.

Federal Loan Programs

The William D. Ford Federal Direct Loan Program

One of the loan programs CUNY participates in is the Federal Direct Stafford Loan program where students borrow directly from the federal government. Just like any other loan, these loans are repaid with interest. The interest rate on direct loans is adjusted annually every July 1st.

Subsidized and Unsubsidized Loans

Repayment begins six months after you are no longer enrolled for a minimum of six credits. Interest on the unsubsidized loan will begin to accrue upon disbursement of the loan. The current Direct Loan interest rates may be found at the Federal Student Aid website^[26]. The federal government charges all borrowers an origination fee at the time the loan is disbursed which is deducted from the loan amount. Undergraduate freshmen may borrow up to \$3,500, sophomores \$4,500, and juniors and seniors, \$5,500, per academic year up to a total aggregate of \$23,000 in a subsidized loan. The subsidized loan is a need based loan. Additional unsubsidized funds may be available for dependent students based upon income and the cost of education. The unsubsidized direct loan is available to eligible independent students, regardless of family income. Qualified freshmen may borrow an additional amount up to \$9,500, sophomores \$10,500, and juniors and beyond, \$12,500 per academic year. The amount is based upon the cost of education.

Application Procedures

The application for Direct Loans may be completed through CUNYfirst. The Entrance Interview is completed online. When the loan is approved, you will receive notification from CUNY. After signing the Master Promissory note also online, and the Annual Student Loan Acknowledgement (ASLA) the loan will disburse in accordance with the college payroll calendar.

To be eligible for a direct loan you must:

- Be a U.S. citizen or an eligible non-citizen
- Be enrolled at least half-time as a degree student in an approved college, university or other post-secondary institution in any of the United States
- Not be in default on a prior Federal student loan or owe a repayment on a PELL Grant or any Title IV Student Aid Program
- Have filed a FAFSA with the Department of Education and submitted all required documentation to Financial Aid. All students must undergo a financial needs analysis to determine eligibility
- Meet satisfactory progress requirements

Additional Information About Direct Loans

- Before receiving a federal loan you must complete an Entrance Interview, which will provide you with your Rights and Responsibilities as a borrower
- You must complete and sign your Master Promissory Note and the ASLA
- The funds are disbursed once per semester unless it is a one-semester only loan. In that case, the loan will be disbursed in two equal payments during the semester for which you have registered

- If you request a loan and later decide that you no longer need the funds, you may decline the loan by notifying the Financial Aid Office
- Immediately upon dropping below half-time status, you must complete an Exit Interview
- You are responsible for notifying the Direct Loan Servicer when you are no longer enrolled at least half-time and establishing a repayment plan
- You are responsible for beginning repayment on time or submitting any deferment arrangements
- Subsidized loan borrowers taking their first loan after July 1, 2013, may borrow a maximum of 150% of the length of their academic program. This means that students will be limited to receiving subsidized loans for 6 years in a 4-year program. The student may be eligible to borrow additional unsubsidized funds. In addition, borrowers who reach the 150% limitation will have their subsidy end for all outstanding subsidized.
- You may view your FSA loan information online^[27]

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. Unlike the Subsidized and Unsubsidized loan program, PLUS borrowers are subject to a credit check. In addition, repayment begins while you are still a student. The current interest rate may be found at FSA Federal Interest Rates and Fees webpage^[28] and is adjusted every July 1st. Applications are available on the Financial Aid website. A completed FAFSA must be filed first. Once the loan is processed, a Promissory Note must be signed online.

Federal TEACH Grant Program

The TEACH (Teacher Education Assistance for College and Higher Education) Grant is offered only to students who are matriculated in a TEACH Grant eligible program. To be considered for this federal student financial aid program:

- You must meet the basic eligibility criteria for the federal student aid programs
- You must complete the Free Application for Federal Student Aid (FAFSA) form
- You must be enrolled as an undergraduate, postbaccalaureate at a school that participates in the TEACH Grant Program
- You must be enrolled in a TEACH Grant - eligible program
- You must meet certain academic achievement requirements established by your academic department

26. <https://studentaid.gov>

27. <https://studentaid.gov/h/manage-loans>

28. <https://studentaid.gov/understand-aid/types/loans/interest-rates>

- You must receive TEACH Grant counseling that explains the terms and conditions of the TEACH Grant service obligation^[29]
- You must sign a TEACH Grant Agreement to Serve^[30]

Students not yet admitted into an approved degree program do not qualify for the TEACH grant.

Withdrawals and Return of Federal Financial Aid

There are federal regulations pertaining to recipients of financial aid funds who withdraw from school. They require the school, and sometimes the student, to repay some or all of the financial aid that was received. When these regulations require a larger repayment of federal funding sources than the amount specified by the school's refund policy, the student will be responsible for the difference. In general, the 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 may be determined by the college as:

- The date you notified the Office of the Registrar
- Or the midpoint of the semester if you withdraw without notifying the college

We will determine how much aid is to be repaid based on the documentation. You must repay the required amount during the term in which you withdraw. Students failing to repay the required amount will have a hold placed on their records and will not be eligible for federal financial aid.

COVID-19 Pandemic and National Emergency Declaration

The country has been impacted by the novel coronavirus, SARS-CoV-2, since March 13, 2020, when the U.S. government declared a national emergency. As a result of the national emergency certain allowances have been made for SAP, certain verification requirements, R2T4, and other areas. If you were impacted by COVID-19 and had a significant change in your financial situation please schedule an appointment with a financial aid adviser to discuss what options may be available to you. Additionally, New York State's HESC and the federal U.S. Department of Education continue to provide new policy and regulatory updates.

29. <https://www.studentaid.gov>

30. <https://www.studentaid.gov>

Scholarship Center and Honors Programs

Scholarship Center

The Scholarship Center provides guidance and oversight to the scholarship process and maintains a website of available scholarships.

Please visit the Scholarship Office website^[31] for more information.

If you have questions, please contact the Scholarship Center at x5244.

Honor Societies

- *Liberal Arts Honor Society of York College*: The purpose of this organization is to recognize students for academic excellence and broad intellectual interests and integrity and to encourage scholarly pursuits. Every spring the Society elects to membership from the graduating class, and in exceptional cases from the junior class, those students who excel in the above respects.
- *Phi Alpha Theta*, International History Honor Society
- *Psi Chi*, National Psychology Honor Society
- *Sigma Delta Pi*, National Spanish Honor Society
- *Kappa Delta Pi*, National Honor Society in Education
- *Eta Sigma Gamma*, National Health Education Honorary

York College Honors Program

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

Benefits of Program Membership

Honors students are eligible for a number of scholarships at York College, as well as generous fellowship programs funded by federal grants. Honors courses will be designated on the student's transcript. Successful completion of the Honors Program will be noted on the

student's diploma and final transcript, and Honors students will be recognized at a special awards ceremony and at commencement. Students in the program will receive other special benefits on campus, such as early registration so that they can choose courses that best fit their schedules. Most important, Honors students will receive the individualized attention of their faculty mentor, as well as the support of the other students within the Honors Program community.

Each Honors student will work closely with a faculty mentor in his or her area of interest. This mentor will guide the student through college, developing an individualized academic program and helping the student prepare for graduate study and professional success. Honors students will participate in small interdisciplinary honors seminars on topics of timely interest and attend special programs with visiting scholars.

Students will develop independent honors projects within their major subject. In the senior year, they will complete an independent study project and honors thesis under the guidance of their faculty mentor. Honors students will attend cultural and performing arts programs each semester to make the most of our rich and culturally exciting city.

Criteria for Admission to the Honors Program

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

For High School Students / Incoming Freshmen

- 90+ Average (Submit Official Transcript)
- Completed Online Application
- Personal Statement

For Current and Transfer Students

- Grade Point Average of 3.5 Higher
- Completed Online Application
- Personal Statement
- Two-Year Graduation Plan

For more information please visit the Honors Program Website.^[32]

31. <http://york.cuny.edu/centers-institutes/scholarships>

32. <http://york.cuny.edu/academics/honors>

Certificates and Awards

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

- *African American Association Award*: For distinction in student development and leadership. Sponsored by the York College African-American Association.
- Biology Honors Program Certificate
- *Simon Bolivar Award*: For scholarship and service to the Latino Community. Given by the Latino Faculty Caucus.
- English Honors Program Certificate
- *Political Science Special Award*: To the outstanding senior majoring in Political Science who shows the greatest potential for scholarship in the field of Political Science.
- *Psychology Special Award*: To the outstanding senior majoring in Psychology who shows the greatest potential for scholarship in the field of Psychology.
- SEEK Award for Outstanding Achievement
- *Sigma Xi Award*: For distinctive aptitude, academic achievement, and maturity. To a graduating senior who majors in mathematics, philosophy, psychology or one of the natural science disciplines. Sponsored by the York College Sigma Xi Club.
- Social Work Honors Certificate
- *Student Development Award*: For excellence in college service.
- Health and Human Performance Honors Award

Office of Undergraduate Research

Program Mission

To promote and facilitate student engagement in research and other creative activities in order to demystify research, increase knowledge about its nature and methodologies, and secure competitive advantage for graduate and professional school and the workforce.

Getting Involved In Research

There are several ways to get involved with undergraduate research at York College. The York College Honors Program provides opportunities to enhance the intellectual development of motivated students. The Louis Stokes Alliance for Minority Participation (LSAMP) seeks to increase the number of underrepresented minority students in STEM. York College conducts a federally

funded Summer Research Program. The CUNY Pipeline Program provides orientation to the academy through a six-week summer research institute at the Graduate Center and research projects conducted with a CUNY faculty member. The Systems Biology Center New York (SBCNY) Undergraduate Research Program offers summer research fellowships to City University of New York (CUNY) undergraduates who are planning to pursue PhD or MD/PhD degree programs after graduation and who are interested in incorporating systems biology approaches into the research that they pursue. The CUNY Summer Undergraduate Research Program (C-SURP) provides students with 10 weeks of hands-on research experience in a CUNY laboratory. Students are matched with a faculty mentor and research team based on their expressed interests. To find a mentor or program that suits you, please visit the Undergraduate Research website.^[33]

Student Research Day

Every April, York College students engaged in undergraduate research present their findings through poster and panel presentations. In 2011, the 2nd Annual Student Research Day involved more than 200 participants, including keynote speaker Staceyann Chin, performer and Co-writer of Russel Simmons Def Poetry Jam on Broadway, *The Other Side Of Paradise*. In 2012, the 3rd Annual Student Research Day involved more than 250 students, and featured award-winning novelist Hari Kunzru, author of "Gods Without Men." Participation continued to grow to nearly 300 students for our 4th Annual Research day, which featured Dr. Partha P. Mitra, Professor of Neuroscience and Theoretical Biology at Cold Spring Harbor Laboratory.

Program History

The launch of a York College Undergraduate Research Program was first announced by Provost Ivelaw Lloyd Griffith at the CUNY Academic Council on January 6th, 2010. He subsequently named Dr. Rishi Nath, Assistant Professor in the Department of Mathematics and Computer Science at York College, as the first Director. The first annual Student Research Day was held on April 15th, 2010 with over 150 participants. The York College Office of Undergraduate Research, located in room AC-3E07b, was opened on September 30th, 2010. Dr. Robert O. Duncan, Assistant Professor of Behavioral Sciences, was appointed as the second director on July 1, 2013.

33. <http://york.cuny.edu/academics/undergraduate-research>

Division of Student Development

Mission

The mission of the Division of Student Development is to integrate, engage, involve, and validate students at York College. By operating and implementing effective programs and services, we enable and empower students to become self-actualized, passionate, and engaged learners in a global society.

Goals

Assess the quality of programs, services, and activities to improve the student experience.

Implement services that support the personal development, health, safety, and wellness of York College students.

Offer programs that enhance student persistence, retention, and graduation rates.

Promote a student-centered environment that focuses on inclusion, equity, and respect.

Provide support services that assist students in achieving their personal and professional goals.

Counseling Center

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 Center is located in room 1G03.

Psychological Counseling Services

York College offers free, short-term, individual psychological counseling to students having difficulty coping with personal and/or academic concerns. Students who have need for additional services will be referred to on and off campus offices after being assessed by a counselor. Resource tables providing information and guides for additional resources are available.

Academic Performance: Grades and Probation

Students having difficulty with classes are encouraged to see a counselor in the Counseling Center. Students on academic probation MUST attend a probation advising session at the Counseling Center to register for classes. Counselors are authorized to lift academic blocks to allow students to register after they attend a probation advising session at the Counseling Center to address the issues that led to being placed on probation.

Alcohol and Drug Prevention Counseling

Our trained staff can answer your questions about substance use, arrange for accurate referrals, and provide resources on substance abuse and recovery. 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.

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, visit the office to set up an appointment to see a counselor.

Veterans Affairs

The Office for Veterans Affairs (OVA) was created within the Division of Student Development to address the needs of our student veterans. As a full-service veteran's office, the counselor addresses special concerns, such as benefits eligibility requirements, tutorial assistance, and academic credit for military experience. Other services available include, but are not limited to:

- Processing of the educational benefit application.
- Processing the change of program application and/or place of training.
- Processing the application for survivors and dependents.
- Certifying enrollment for all veterans.

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 enroll for a minimum of 12 credits.
- To qualify for 3/4 time benefits, you must enroll for a minimum of 9 credits.
- For Matriculating Veterans (who have completed 12 credits at York College).
- 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.

To qualify for 1/2 time benefits, you must enroll for a minimum of 6 credits.

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

- 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.

Please

Note: The Office for Veteran Affairs at York College is responsible to inform the U.S. 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 serves as a liaison between the student and Regional Offices in Buffalo and New York City.

A veterans' manager is available full-time and is located in Room 2D07.

The Center for Students with Disabilities (CSD)

The Center for Students with Disabilities (CSD) provides a wide range of supportive services to York students with disabilities. Services including academic adjustments and/or auxiliary aids are provided to help meet the unique educational needs of students with a permanent and/or temporary documented disability. Accommodations offered may include extended time for exams, use of a tape recorder, reader/scribe, note-taker, magnification device, closed-caption television, and/or computers with adaptive technology. Other accommodations can be provided based on each student's needs and disability documentation.

CSD is committed to fulfilling its mission by facilitating a fulfilling college experience for students with disabilities through education, accommodations, awareness, collaboration, empowerment, and advocacy. All students with a disability are encouraged to self-identify to CSD in a reasonable and timely manner to ensure equal access to all courses, programs, services, and activities at York College.

To determine if you are eligible for any of the CSD services, please send an e-mail to csd@york.cuny.edu [See page 0], call 718-262-2191, or visit the office located in Room AC-1G02 for contact with one of our Accommodations Specialists.

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

(Part of CSD)

CUNY LEADS aims to facilitate successful academic and career outcomes for CUNY students with disabilities. The mission for the CUNY LEADS 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 LEADS also facilitates students' involvement with ACCESS (Adult Career and Continuing Services-Vocational Rehabilitation).

If you are a student with a documented disability and need help making academic and career choices, please email, call, or visit the CUNY LEADS Specialist; tvaigneur@york.cuny.edu [See page 0], 718-262-2323, Room AC-1G02.

Career Services

The goal of Career Services is to be in line with York College's mission to help students become fully marketable upon graduation. We assist students by offering tools that help them with making decisions on choosing a major, preparing for internships, jobs opportunities and developing the soft skills necessary to become successful in their chosen future careers. Through our partnerships with employers and academic faculty and programs, students are offered the knowledge, skills and experiences needed to thrive in today's ever changing global market.

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 update their registrations 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, part-time, full-time jobs and career opportunities.
- Workshops on resume writing, interviewing skills, job search techniques and business etiquette.
- Seminars on discipline-related career opportunities.
- Career fairs.
- Computer-assisted career development tools.
- Career resource center.

The Resource Center is located in room 3M01 and you may check for current office hours and information concerning special events and services by going to the Career Services website.

York College Child and Family Center

94-12 160th Street
Jamaica, NY 11451
Tel: 718-262-2930
yccfc@york.cuny.edu

The York College Child and Family Center provides high quality child care and early education program for children of York College student parents. The center is licensed by the New York City Department of Health and Mental Hygiene. Located in a new 10,000 square foot building on the former St. Monica's, Catholic Church site, the center has seven classrooms, food service kitchen, two administrative offices, indoor multipurpose room and a large on-site secure playground. The program has been designed to meet the needs of student/parents by providing affordable, part time and full-time flexible child care. The fees are very affordable and the Center also offers subsidy based on income eligibility.

Our current child care services are Infants - Preschool- 6 months - 4 years old. We are also working to implement a School age program and Summer Camp in the near future, for children ages 5-10 years old.

- **Flexible Scheduling:** is offered to student parents using their class schedules as a basis for their child's enrollment. With flexible scheduling student parents only register their child/ children for the days and hours they need for class, work study, fieldwork or for studying.
- **Qualified and Experienced Early Childhood Staff:** The Center's staff consist of a Certified Director, who has been in the field for 36 years, Master level Certified Head Teachers, Teacher Assistants and support staff, such as an Enrollment and Compliance Manager and Curriculum Coordinator. The Center offers developmentally appropriate early childhood programming in a nurturing and culturally diverse environment. Teachers facilitate hands-on, learning through play activities, that stimulate the cognitive, social, emotional and physical development of each unique child.
- **A Resource for the College Community:** The Child and Family Center is an integral part of the academic community by serving as a work study, fieldwork and observation site for interns from various academic departments.

Further Information:

- Enrollment in the center is available for children of York College students, faculty and staff.
- We also serve the community through our Department of Education programs such as 3k and UPK.
- Children are registered in accordance to parents' class schedule. The center does not provide drop-in or babysitting services.
- Enrollment is limited and based on a first come first served basis.
- The center follows the York College calendar during the spring and fall semesters and operates Monday through Thursday from 8:00 a.m. to 6:00 p.m., Fridays 8:00 a.m. - 5:00 p.m.

Health Service Center

The Student Health Service Center provides programs and services to educate students about the importance of developing a healthy lifestyle to **maintain or enhance a high quality** of life. Additionally, the **health service center provides first aid treatment, mental health referrals, guidance on nutrition and, family planning referrals.**

The Student Health Service Center is also responsible for ensuring that all students are **fully** immunized. Students are required to show proof of immunity to measles, mumps, rubella, and a signed response form for

meningitis **status. Proof of being fully vaccinated against COVID-19 is approved by the health center. All vaccination documentations are maintained electronically.** Physical examinations are important to developing a baseline health status, therefore, proof of a current physical examination is requested annually.

Any accidents occurring on campus must be reported to the Student Health Service Center and/ or the Public Safety Office immediately.

The Student Health Services Center^[34]

Office of Student Activities

The Office Student Activities (OSA) is responsible for advising, guiding and assisting students who are interested in starting or joining clubs and organizations. Any group of students wishing to organize a club or organization should contact Student Activities for information about the guidelines and procedures for chartering an organization. The staff works closely with student organizations in planning, organizing and implementing their programs and events to help ensure their activities are successful. Additionally, OSA has responsibility for providing guidance to and advising the Student Government Association, administrative oversight of the student newspaper *Pandora's Box*, and supervises the operations of the Game Room and the on-line radio station.

Student Government

The Student Government Association (SGA) is comprised of student senators elected by the student body. SGA Senators meet, discuss, and act upon critical issues that impact students from an academic and social standpoint. The 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 SGA also participate in a leadership training conference where they are taught skills and techniques that help them become better leaders.

Student Government Association Offices are located in Room 1G04.

The Student Game Room

The Student Game Room offers a variety of fun and relaxing activities for students to enjoy, including: billiards, assorted card games, board games, Playstation 4, Xbox 360, and Wii U video gaming systems, and two plasma television screens which have cable programming. The Game Room is located in room 1F19-20. The telephone number is (718) 262-2245.

Radio Station

34. <http://york.cuny.edu/student-development/health>

The York College Radio Station (YCRadio.org) was created within the Division of Student Development to give students a recreational and academic resource that fosters interest in broadcast production and communications technology. It provides hands-on experience for our students. YCRadio.org streams online. The station can be accessed through the York College Radio website^[35], with shows featuring music, sports, and discussions of 'hot topics' by faculty scholars and guests.

The York College Radio Station is located in Room 1G06. Telephone: (718) 262-5293.

Pandora's Box

Pandora's Box is York College's award-winning and nationally recognized collegiate newspaper that keeps the campus up-to-date on current issues and events. It is an excellent opportunity for students to gain valuable journalistic experience.

Pandora's Box is located in Room 2C13. Telephone: (718) 262-2529.

Center for Leadership, Service and Civic Engagement

The York College Center for Leadership Service and Civic Engagement is dedicated to teaching students the many facets of leadership, through literature, workshops, lectures and extracurricular activities. The Center also provides information and resources to students that assist them in enhancing their civic identities and service aptitude through beneficial partnerships with the local community while broadening their global perspective. Students also learn about civic engagement through community partnerships with community-based organizations and government entities. The Center is located in Room A/C 1G06. Telephone (718) 262-2936.

The National Society of Leadership and Success

The York College Chapter of The National Society of Leadership and Success, "Sigma Alpha Pi" is a subsidiary of a nationwide organization committed to creating a lasting positive change in the lives of students and their communities through leadership training and the creation of SMART Goals. The society is made up of goal-oriented individuals who come together to learn and support each other through Success Networking Teams which function as support networks for the student. As students move through the process towards the Induction Ceremony, they learn the importance of collaboration and selflessness while also learning the value of persistence towards goal achievement for the greater good of society. The chapters is headquartered in the Center for Leadership, Service and Civic Engagement, Room 1G06. Telephone (718) 262-2936.

The Women's Center for Gender Justice

Mission

We provide supportive services for the growth and development of all students as they pursue academic and life-long goals. While gender inequality affects everyone, it is women and girls who face the most discrimination as a result of gender inequality. To combat this inequality, we provide resources and support for women to empower themselves and others. In order to be truly inclusive, our services are available to students, alumni, faculty, staff, and the surrounding community regardless of gender, gender identity, race, ethnicity, age, class, sexual orientation, religion or (dis)ability. To achieve our goals, we provide programs and opportunities designed to contribute to the growth and well-being of all York College students.

Our Goals are:

- Domestic Violence/Intimate Partner Violence Education and Awareness
- Promoting Healthy Lifestyles
- Provide Internal/ External Resources and Referrals to Students
- Provide Leadership and Mentoring Opportunities

To meet these goals, we offer a full calendar of activities. Our priorities include: Women's Rights and Gender Equity, Domestic Violence and Sexual Assault Awareness Education, Promoting Healthy Relationships and Reproductive Education, Women's Leadership and Mentoring, and Advice and Advocacy

All Students Are Embraced and Welcomed!

We are located in the Academic Core Building in room 3C01 and can be reached at 718-262-2008.

Male Initiative Program/Men's Center

The purpose of the York Male Initiative Program and Men's Center is to provide a system of support, through various resources, that contribute to the improvement of enrollment and graduation rates of underrepresented populations, and particularly male students. The Center has two primary goals: first, to support the College's recruitment efforts from various areas in the community; and second, to provide services that support students' persistence to graduation. The cornerstone of the program is our Mentoring Program, in which students have the opportunity to interact with other role models including our faculty and staff.

The programs of the York College Male Initiative Program/Men's Center are:

- Pi Eta Kappa - an academic fraternity and honor society.
- Back-On-Track - a teacher development program that provides SAT assistance to high school students.
- The Barbershop - a forum for young men to discuss hot topics, and issues that impact the campus and the greater community.

35. <http://york.cuny.edu/ycradio>

- Route to Success - a collaboration with various community partners that attempts to disrupt the pipeline-to-prison cycle among under-represented populations.

The Men's Center^[36]

York College Association

The York College Association, a state chartered corporation with a board of directors comprised of students, faculty and administrators, was formed to provide support for college-related events and programs that cannot be funded by the tax levy budget of the College. It is the policy of the Association to consider funding activities and programs that are of broad general interest and benefit to the student body as a whole. Any organization which is primarily social in nature or has a restricted membership is not eligible for financial support from the Association.

The Association is responsible for allocating a portion of the General Fee paid by each student at registration.

Army ROTC Military Science

The Army Reserved Officer Training Corps (ROTC) provides college students the skills and leadership training to become officers in the United States Active Army, Army Reserve, and Army National Guard. The military science curriculum is designed to help you develop life skills and assist you with achieving your academic and career goals, all of which are essential in building a positive and productive future. The program can prepare you to become a U.S. Army officer while completing a degree.

Cadets develop maturity, responsibility, leadership ability, self-confidence, and other qualities essential to success in any field. The program stresses written and oral communication, physical training, first aid, land navigation, and ethics.

Upon successful completion of ROTC, Cadets receive commissions as second lieutenants in one of the Army's specialized branches.

Benefits

- 2, 3, and 4-year scholarships that cover full tuition and fees are available to qualified applicants and Cadets.
- \$1200 annually for books and expenses.
- \$300-\$500 per month tax-exempt spending allowance for contracted Cadets.
- Commission as a second lieutenant.

Curriculum

Freshmen and sophomores enroll in a 3 credit course, which meets for 4 hours one day a week. In the classroom portion of instruction they study subjects including leadership, team building, problem solving, and oral communication. During the lab portion of the curriculum, they receive training on first aid, land navigation, tactics, marching, and marksmanship.

Cadets also participate in Physical Training (PT) three days a week in the morning. Cadets learn how to conduct PT to the Army standard while increasing their flexibility, endurance, muscular strength, and aerobic capacity.

In addition to the classroom and lab instruction and PT, Cadets participate in one Field Training Exercise (FTX) over a weekend per semester. Cadets receive more in-depth training on subjects covered in class and lab. In addition, they are given the opportunity to go to a rifle marksmanship range, rappel, and train with Cadets from neighboring schools.

Juniors and seniors enroll in a 3-credit course that meets for 1.5 hours one day a week in addition to the 3.5 hour course that freshmen and sophomores attend. They study subjects including advanced leadership and management, small-unit tactics, and military ethics.

Obligations

No obligation during freshmen and sophomore years for non-scholarship cadets. Commissioned second lieutenants serve on active, reserve or National Guard duty.

To join Army ROTC, you must be:

- Age requirement: Maximum 29 years of age for scholarships at/by graduation
- Age requirement: Maximum 32 years of age at/by graduation for non-scholarships (exceptions considered).
- A U.S. Citizen in good health
- A freshman or sophomore
- A full-time college student
- To join you must be an undergraduate or graduate with two years remaining.

The New York National Guard Recruit Sustainment Program (RSP)

York also offers the New York National Guard Recruit Sustainment Program (RSP) for those students who also wish to receive financial benefits from the US Army while pursuing their degree.

36. <http://york.cuny.edu/student-development/mens-center>

Student Resources

Academic Advisement Center

The Academic Advisement Center, located in Room AC-2C01, houses professional academic advisors who provide comprehensive advisement to entering freshmen and students who have not declared a major.

Academic Advisors assist students to:

- make decisions related to their academic careers at York College,
- choose an appropriate schedule of classes,
- understand graduation requirements, and their impact on the choice of courses,
- begin to develop an academic plan persisting to graduation,
- understand York College programs, policies, procedures and resources,
- think about life goals, values, abilities, interests and limitations, and
- explore various majors and potential opportunities available after graduation.

For information, visit the Academic Advisement Center^[37] in Room 2C01, or contact us at Tel: 718-262-2280 or email: advisement@york.cuny.edu.

Collaborative Learning Center

York College Collaborative Learning Center (CLC) provides academic support (tutoring) to assist student learning and understanding of course content across disciplines and at all levels.

The CLC employs current York College students selected in consultation with faculty coordinators from across academic departments and programs including Biology, Chemistry, Earth and Physical Sciences, Occupational Therapy, Nursing, and Clinical Laboratory Science. CLC tutors are College Reading and Learning Association (CRLA) certified tutors and CUNY Graduate Center Writing Fellows. New tutors complete a minimum of 10 hours of professional development training covering topics such as Fundamentals of Tutoring, Ethics and Handling Difficult Situations, Study Skills and Role Modeling, Active Listening and Learning Styles and Working with Multilingual Learners. CLC administrative personnel conduct ongoing training and observations to help reinforce skills learned in the professional development workshops and ensure tutoring practices are current.

The center offers one-on-one, group, and online synchronous tutoring sessions as well as free workshops in Writing skills, Anatomy and Physiology, Chemistry and other subject-areas. Students can schedule appointments with tutors and sign up for workshops via the CLC's website <https://www.york.cuny.edu/collaborative-learning-center>.

For more information, visit the Collaborative Learning Center

Academic Core Building, Room 1C18, Tel: 718-262-2303/718-262-2494. Email: clc@york.cuny.edu

Center Hours of Operation:

Monday - Thursday: 9:00 AM - 8:00 PM; Friday: 9:00 AM - 5:00 PM; Saturday: 9:00 AM - 3:00 PM

Hours are subject to change over Winter and Summer sessions.

(NOTE: Due to COVID-19, the CLC is only offering online tutoring and workshops through Blackboard Collaborate Ultra or ZOOM until further notice. You can also reach the CLC at clc@york.cuny.edu [See page 0].)

Freshman Year Experience (FYE)

The mission of the Freshman Year Experience (FYE) Program is to assist in promoting the successful transition, achievement, and retention of first-year students to college life at York. FYE is a comprehensive program of academic and co-curricular activities. The FYE program components include Freshman Advisement, The Freshman Reader, Freshman Orientation, Week of Welcome (WOW)/ Spirit Week, Convocation, First-Year Seminar/ SD110, Early-Alert System, Civic Engagement, Mentoring, and "The Freshman Pledge."

The Freshman Reader Program

The Freshman Reader Program is designed to provide first-year students with a shared academic experience and to introduce them into an educational community where intellectual engagement is fostered and valued.

The program utilizes a common book that entering freshman are given and required to read during the summer. The book is then utilized in various freshman classes and activities during the academic year.

Mentoring Program

The York College Mentoring Program^[38] is a resource to assist students with their academic and social adjustment needs to the college. The mentoring program is open to

37. <http://york.cuny.edu/academics/advisement>

38. <http://york.cuny.edu/administrative/enrollment-management-office/first-year-experience-fye/mentoring-program>

all enrolled students from all majors, especially incoming freshman. Participating students are paired with an academically successful upperclassman or faculty/staff member with similar interests, who want students to do their best in College.

Program activities include, training sessions, mentor/mentee meetings, monthly "meet and greets" and other events. Assessment of the mentoring program's success includes comparing participating students' GPA with non-participating students. And we will also compare first-year retention rates of participating students with non-participants.

Service-Learning Program

Service-Learning at York College is a teaching and learning method that engages and encourages students to make meaningful connections between course content and real-life experiences through service and community-based research. York College's aim is to deepen student learning, while increasing students' level of community engagement and responsibility.

Early Support System

This intervention program is designed to connect students to campus support services to ensure their academic success at the college. Moreover, the Early-Alert System serves as a resource for faculty to report and refer, at any point during the semester, students who are experiencing difficulty in their respective courses to a supportive service program and/ or office. Utilizing a web-based program, the reporting instructor selects from several indicators (i.e. attendance, class participation, mid-term/final grades, and behavioral misconduct, etc.) that describe the area(s) of concern and then a message is generated and sent (email) to the appropriate office and/ or program. The student is also alerted that he/ she has been referred for support services. The office and/ or program that receives the reporting faculty feedback can intervene and assist the student in correcting his/ her poor performance or behavior.

Jumpstart Program

Jumpstart is a national early education organization and a part of the Division of Student Development at CUNY York College that recruits and trains full time college students and community volunteers to work with preschool children in low-income neighborhoods. Through a proven curriculum, these children develop the language and literacy skills they need to be ready for school, setting them on a path to close the achievement gap before it is too late. Jumpstart Corps members have the unique opportunity to inspire young children to learn, serve in a local community, work on a team, and build professional skills. All Corps members receive professional-caliber

training to help them implement Jumpstart's outcome-based program, promote children's school success, and build family involvement. At York College all students are eligible to participate and become a Jumpstart Corps member. There is no GPA requirement and all academic majors are welcomed. Through Financial Aid qualified students have the potential to earn Federal Work-Study award money during term of service, and will be eligible to receive a Segal AmeriCorps Education Award upon completion of their service term based on the hour's commitment level.

Corps members commit to an intensive training program whose purpose is to make a substantial impact in the life of a young child. During the school year, Corps members participate in the following activities:

Serve part-time, 8-12 hours per week, during the school year, including:

- Jumpstart sessions with team and small groups of children, 4 hours per week (two sessions per week for two hours each);
- Team planning meetings and session preparation, which includes planning, reflection, and/ or training, 2-3 hours per week;
- 2-5 hours each week in a preschool classroom during the regular school day;
- 1 hour of individual planning and preparation for Jumpstart sessions.
- Communicate with children's family.
- Participate in intensive pre-service and on-going trainings.
- To learn more visit the Jumpstart office AC-1E01 telephone: 718-262-2269 or visit Jumpstart Program website.^[39]

York College Intercollegiate Athletics and Recreation

Mission and Goals

The York College Intercollegiate Athletics and Recreation Department is committed to excellence in athletics and recreation as part of a larger commitment to enriching the lives of our students through institutional pride, intellectual growth and personal well-being as individuals and global citizens.

Goal

1. To maintain academic integrity and eligibility to ensure our student-athletes reach their educational goals.

39. <http://www.jstart.org>

2. To facilitate the improvement of our athletic programs and the overall student-athlete experience through the recruitment, retention, and growth of our diverse population in order to compete for conference championships.
3. To strengthen the department's contributions to and relationship with the college community and its neighboring communities.
4. To enhance our financial position through the development of our facilities, alumni relations, sponsorships/ partnerships and fundraising endeavors to ensure budget sufficiency.

About Athletics

York College, home of the Cardinals, offers 17 varsity teams that compete at the National Collegiate Athletic Association (NCAA) Division III level as a member of the City University of New York Athletic Conference (CUNYAC).

Men's Sports

- Basketball
- Cross Country
- Soccer
- Swimming
- Tennis
- Track and Field (Indoor)
- Track and Field (Outdoor)
- Volleyball

Women's Sports

- Basketball,
- Cross Country
- Track and Field (Indoor)
- Track and Field (Outdoor)
- Soccer
- Softball
- Swimming
- Tennis
- Volleyball

Club Sports

Mixed Cheerleading

Brief History

The Cardinals have captured 31 CUNYAC Championships in their history, with the most coming from Men's Outdoor Track and Field, with seven overall. In 2010, York College took home five conference championships, the highest single season total in school history.

Facilities

York College offers numerous athletic facilities on its campus, including:

- Locker rooms (heated)
- Indoor Track
- Fitness Center and Weight Room
- Gymnasium (2,500-person capacity)
- Swimming Pool (six-lanes, heated)
- Outdoor Athletic Field

- Outdoor Throwing Cage
- Tennis Courts (six)
- Handball Courts (three)
- Outdoor Track (design and planning stage)
- Turf Soccer Field (design and planning stage)

Athletic Eligibility

To be eligible to participate in intercollegiate athletics, a student must:

1. Meet the admissions requirements of the college.
2. Be a full-time matriculated student carrying at least 12 degree credits (or equivalent).
3. Meet the minimum requirements for good academic standing and making reasonable progress toward degree.
4. Comply with NCAA Division III rules and regulations, as well as meeting conference (CUNYAC) eligibility requirements.
5. Student-athletes are eligible to compete in four seasons of intercollegiate competition in any one sport, over the course of a maximum of 10 full-time semesters (or 15 quarters) of college attendance.

Sports Medicine

Sports Medicine coverage is provided to all York College student-athletes by the Head Athletic Trainer (AT). Our certified athletic trainer works in conjunction with the Office of Public Safety and Team Physician in case of emergency or injury.

Strength and Conditioning

A comprehensive strength and conditioning program is available for all varsity teams and individual student-athletes under the direct supervision of our Head Strength and Conditioning Coach.

Connect With Us

The general contact number for the Athletics Department 718-262-5114. Phone numbers and email addresses for a specific coach or staff member can be found by visiting: www.yorkathletics.com/directory.

Website www.yorkathletics.com

Facebook www.facebook.com/yorkathletics

Instagram www.instagram.com/yorkcardinals

Twitter www.twitter.com/yorkcardinals

YouTube www.youtube.com/yorkathletics

Recreation and Intramurals

Recreation

The following facilities are available to all students, faculty, staff, and alumni of York College during specified hours. Recreation schedules are available prior to the start of each semester and reflect the normal hours of

operation. A copy of the schedule can also be obtained at the Recreation and Intramural Office (HPE P109B), or website at www.yorkathletics.com/recreation.

- Gymnasium
- Indoor Track
- Fitness Center
- Multi-Purpose Room
- Swimming Pool
- Outdoor Athletic Field
- Tennis Courts (seasonal)

Recreation Rules

1. A **valid York College ID** must be presented to Recreation staff in order to use the recreational facilities. ID will be held until completion of workout.
2. Proper attire must be worn at all times:
3. -Gymnasium: t-shirt, shorts or sweatpants, and sneakers
4. -Pool: Nylon or Lycra swimsuits (no shorts)
5. No outside food or drink is permitted in the recreation facilities.
6. Lockers are available on the lower levels and are for **daily-use only**.
7. Personal belongings, such as coats, bags, books etc. are **not** permitted to be left in the recreational spaces.
8. All participants must adhere to York College's code of conduct.
9. Clothes must be changed in community locker rooms only, or faculty locker rooms as assigned.

Intramurals

York College Athletic Department hosts a wide range of intramural events throughout the academic year. These activities are designed for the participation, recreation, and enjoyment of the entire campus community including faculty, staff, undergraduate and graduate students. It is our goal to actively promote college community engagement through health and recreational activities and events, including the following:

- Badminton
- Basketball
- Dodgeball
- Flag Football
- Running
- Soccer

All activities are co-ed. Please refer to www.yorkathletics.com/intramurals and postings campus-wide for the intramural schedule of events. If you have any questions or are interested in registering for an event please contact us directly at 718-262-5107, visit the Intramurals Office (HPE 109) in person, or register online via www.yorkathletics.com/intramurals.

York College Office of Alumni Affairs

York College has a growing group of more than 26,000 alumni with backgrounds as diverse as their ambitions. The York College Office of Alumni Affairs is dedicated to serving this alumni community and strives to build lifelong relationships. Alumni Affairs works to strengthen the extended York College community through an active and effective network of activities and communications. The department was officially staffed in July 2009 and provides the following services:

- An Annual Class Reunion Program,
- Manages the Annual Fund,
- Produces the Alumni Directory,
- Creates the Annual *News from York* Alumni Newsletter,
- Maintains the York College Cardinal Alumni Network (YCAN) Facebook Page,
- Promotes the York-College-CUNY-Alumni Group LinkedIn Page,
- Hosts Alumni Events.

Alumni Association

The purpose of the York College Alumni Association is to provide the means by which we can have a continuing relationship with our alma mater and fellow alumni. Through Alumni Association activities, we enjoy renewing old friendships and making new friends while providing valuable volunteer service.

Individually, as well as collectively, we maintain that York College remains the beacon on the hill. We commit ourselves to do all that is possible for York College to persevere academically, financially, morally and aesthetically.

Learning Resources

Center for Teaching, Learning and Educational Technologies (CTLET)

The Center for Teaching, Learning and Educational Technologies is committed to inspire, promote, and support teaching and learning that is effective, engaging and rewarding. In support of this mission CTLET provides the following services. To learn more and for contact info visit CTLET on the York College website.

Instructional Design for Faculty

The instructional designer will work with faculty to

- Design and develop instructions, assignments and assessments based on sound learning theories, research and instructional design principles.
- Implement effective strategies to solve instructional issues.
- Select appropriate technology solutions.
- Evaluate and assess the effectiveness of the instruction.

Blackboard and Online Technologies Support for Students, Faculty and Staff

In addition to a robust collection of an online workflow, roadmap and standalone tutorials for Blackboard users, CTLET's Bb and Online Technologies team offers, email, phone and walk-in support.

Media Equipment and Classroom Technologies Services

Students, faculty and staff in need of media equipment, including photo or video cameras, mobile projectors, projection screens, speakers, lecterns, audio or video recorders, laptops and microphones can contact the team by phone, email or walk-in to reserve equipment, schedule delivery and pickup or make an appointment for in-class support.

Media Production Services for Students, Faculty and Staff

Students, faculty and staff can request videotaping or live streaming of events or for instructional or college-related promotional purposes.

Academic Computing Facilities

Contact Center and Technical Support: The York College Contact Center (Service Desk) provides both technical and non-technical support for faculty, staff and

students throughout the entire campus. We are located in Room 2E03 and the Library. During peak periods we may have satellite locations located in the Atrium and other locations around campus. We support many student related services during normal and extended hours. Using a 311-type system unique to York called, YConnect, we are able to deliver a consistent service experience for all your technical and non-technical needs. The York Contact Center may be reached at ext. 5300 or you can visit us on the Service Desk webpage.^[40]

College-wide Computer Network: The Department of Information Technology provides College-wide computer network connections to support all academic and administrative areas of the College. Office and lab computers on campus are connected to the network, thus providing a seamless sharing of the computer resources. The high-speed WAN links connect the York College Network to the University Computer Center (UCC), thereby providing high-speed redundant Internet access throughout the College.

The on-campus network resources such as personal network storage can be accessed from off-campus locations through a secure Virtual Private Network (VPN). Many research databases which are available to York students, faculty, and staff can also be accessed from outside of York's Campus using the VPN.

Wireless Access: The York Wireless Network may be accessed from almost anywhere 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 the College and Internet resources from their laptops and hand-held devices.

E-mail Services: Through a CUNY-wide partnership with Microsoft, we are offering students a state-of-the-art email and communication suite. Using this account students can access online-email, shared calendars and chatting with 24/7 availability. Additionally students will have free access to the standard Microsoft suite of applications: MS Word, Excel and PowerPoint.

Web Services: The York Web Team provides accounts for all students, faculty, and staff to develop and publish web pages in support of their academic pursuits. Additionally we provide support for York TV and York Radio.

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

40. <http://york.cuny.edu/it/service-delivery-unit>

research. The Classroom Building (second floor) houses a college wide drop-in lab. Additionally, six of the college's 15 classroom computer labs are located at this site. These labs are fully equipped with networked 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.

Computer Software: An expanding software library housed in the Computer Lab (C201-Classroom Building) currently contains more than 600 standard and specialized titles recommended by faculty in support of academic offerings at the College. The software collection is continually updated in response to program requirements. Special software is also available for students with special needs. The York College Computer Software Catalog can be obtained in Room 4G02 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 more information visit the CUNY Computer Software Site Licenses website or contact the site-licensing liaison (CL201).

Specialized Computer Facilities

The Department of Information Technology provides support for a series of specialized computer facilities. Music students use computers and sound interfaces in the lower level computer lab (AC-LL02) to create and study music. The Fine Arts computer laboratory (1A01) is equipped with Macintosh computers, organizers and printers. The SEEK computer lab provides networked computers to meet the needs of SEEK students (1C08). The Testing Center has networked computers and dedicated laboratories for evaluating prospective students and for the support of students with special needs (1G05). The Student Government provides funding to support a networked computer lab for drop-in use by students (3rd Floor-Academic Core). The Collaborative Learning Center (1C18) contains computers and printers for student use during tutoring sessions. 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 the largest installed base of Internet accessible computers for electronic searches of databases and Internet resources for students, faculty

and staff. They also house a portion of the York College Information Technology Service Desk for supporting many student related services.

Smart Classrooms and Lecture Halls: All classrooms and lecture halls provide connectivity to the campus network infrastructure. Many classrooms are Smart Classrooms that are equipped with state-of-art computers, interactive panels, large screens or interactive whiteboards, and audiovisual equipment. It provides the tools for faculty to incorporate a wide range of media in the instruction and to enrich student learning experience.

Classroom Support Services: All classroom service makes possible the presentation of a wide variety of media in the classroom. Circulating equipment includes: LCD projectors with laptops, VHS videocassette decks, CD and DVD players, LCD monitor carts with DVD and VHS players, and a wide variety of PA systems with microphones.

Media Collection: York College's Media Collection, housed in AC- 4G02, consists of various educational media titles on VHS and DVD which are available for instructional use. The media catalog can be accessed online.^[41]

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 online.^[42]

Language Labs: The Language Learning labs make available current technology for both group instruction and individual learning in language acquisition and other disciplines. The Language labs are equipped with computer learning stations with audio and video cassette players, offering a variety of foreign language programs: French, German, Italian, Spanish, and ESL.

The Bridge at York College: A "makerspace" hands-on laboratory serving the entire York College community where faculty, staff, and students can come together to design and build projects. It also provides access to materials, tools, and technologies that allow for hands-on exploration and participatory learning. The Academic Computing and Educational Technology department regularly conducts workshops in areas like basic circuit soldering, 3D scanning and printing, micro-controller programming and more, open to all faculty, staff, and students. As well any interested faculty, staff, or student can propose and conduct classes, labs and/ or workshops in the space from any discipline.

41. <http://york.cuny.edu/it/acet/media>

42. <http://apps.appl.cuny.edu/>

Library Services

The Library provides a broad, balanced collection for academic research and a space for collaboration and individual study. The Library has 14 group study rooms, large tables for group work, and dozens of individual study carrels that are equipped with electrical outlets. The Library has 170 computers, 19 laptops, 20 surface tablets, 5 scanners, 7 printers, 7 photocopy machines, and 2 pay stations (at which users can set up accounts to print and copy). There are also six desktop magnifiers that comply with ADA standards for patrons with low vision. Most of the Library's print collection is available in open stacks and is arranged according to the Library of Congress classification scheme. The present collection includes over 161,000 print books, over one million e-books, 38 current periodical titles in print, plus over 220,000 online full-text open access and subscription journals, newspapers, and popular magazines.

Special collections include the Bassin Collection, the James Como Collection, the Kenneth Adams Collection, the Paule Marshall Collection, 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's subject liaisons^[16] serve 26 academic disciplines and programs. York's faculty members are strongly encouraged to participate in the Library's collection development to ensure the Library provides an up-to-date and comprehensive collection that meets the research needs of students and faculty in every discipline. Faculty members are also encouraged to place copies of their course textbooks in the Library's Reserve Collection, and to place electronic copies of materials on e-reserve ^[insert new footnote 17: <https://libguides.york.cuny.edu/coursereserves/faculty>].

The Library cooperates closely with all academic departments in making available special reserves and loans. CUNY identification cards must be presented whenever materials are borrowed. With the exception of reference and reserve materials, students may check out books for a period of four weeks.

The Library's holdings are augmented locally through interlibrary loan arrangements. Two services, CLICS and ILLiad, make local, national, and international resources available to faculty, staff, and students. CUNY Libraries Inter-Campus Services (CLICS) allows individuals to request materials from other CUNY libraries. For those materials unavailable through CLICS, students, faculty, and staff may file an interlibrary loan (ILL) request via the ILLiad service.

The Library's electronic resources are accessible from off campus by logging in with the CUNY Login (the same credentials used for Blackboard and/or CUNYfirst), or after logging in with a York Virtual Private Network account (VPN).

Library faculty members teach information literacy classes. Requests for information literacy classes are arranged via an online form^[18] on the Library's homepage. 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 provided at the Library's Reference Desk.

The Reference Desk is staffed by a librarian whenever the Library is open and classes are in session, and reference is also provided online via a chat box on the Library website. York's library faculty members also provide individual research consultations, arranged by appointment ^[insert new footnote 19: <https://www.york.cuny.edu/library/forms/research-consultation>].

Food and drinks (except bottled water) are not allowed in the Library and cell phones and electronic devices should be set on silent or vibrate mode.

The Library is open twelve months per year. During the pandemic, the Library had been operating remotely, but we expect to resume limited in-person hours in Fall 2021. The expected hours during the Fall and Spring semesters will be:

- * Monday to Thursday, 9:00 A.M. - 5:00 P.M. on campus; 5:00 P.M. - 9:00 P.M. via chat
- * Friday, 9:00 A.M. - 5:00 P.M. on campus; 5:00 P.M. - 6:00 P.M. via chat
- * Saturday, 9:00 A.M. - 5:00 P.M. on campus and via chat
- * Sunday, CLOSED Please check the Library Hours <https://www.york.cuny.edu/library> for Winter and Summer session hours and for schedule changes.

Tutorial Services

For a complete listing of services, visit the tutoring webpage^[43] where you would see that a variety of tutorial programs are offered on campus.

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

43. <http://york.cuny.edu/student/tutoring/>

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. 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. For information, go to Room SC 114, call 718-262-3766 or visit the CLIP Website.^[44]

Study Abroad

York College strongly encourages students to participate in study-abroad programs organized by CUNY colleges and other institutions. Students have the opportunity to take classes during short summer and winter intersession, or spend an entire semester or two. Students do not have

to speak a foreign language; most classes are offered in English. For further information, consult the Study Abroad website.^[45]

CUNY Aviation Institute at York College

Established in 2003, The City University of New York Aviation Institute at York College is the first CUNY institute to focus specifically on Aviation Management an initiative funded by the Port Authority of New York and New Jersey. The CUNY Aviation Institute at York College is committed to a transformative and enriching aviation education, one that promotes a holistic development of our students through a delivery of innovative programs and services that are responsive to the needs of students. The Institute addresses emerging issues, and fosters industry and community relationships to ensure a success aviation career, the advancement of the aviation industry and betterment for the communities in which we live.

Prospective students interested in an exciting career in the aviation industry may enroll in the *Bachelor of Science in Aviation Management* degree within the School of Business and Information Systems.

The *Bachelor of Science in Aviation Management* degree is designed for students seeking to lead and manage in the world of aviation. Balancing key aviation concepts with advanced business strategy, the curriculum provides students a solid foundation of aviation expertise, industry standards, principles of management, and leadership delivered by aviation industry experts. The program explores all facets of aviation management, including airport and airline economics, aeronautical science, accounting, marketing, environment, aviation safety, assets protection and global business strategies. This approach to aviation education gives the student added value over aviation programs by focusing on the skills and knowledge required by today's industry. Upon graduation, students will be eligible and qualified candidates for desirable staff, operational, and executive positions within the aviation industry.

Please contact the CUNY Aviation Institute, Chun-Pin (Chris) Hsu, Ph.D., Director, (718) 262-2829, Email: CHsu@york.cuny.edu, or on the CUNY Aviation Institute website.^[46]

44. <http://york.cuny.edu/clip>

45. <http://york.cuny.edu/student-development/study-abroad>

46. <http://york.cuny.edu/aviation>

Academic Program and Graduation Requirements

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. 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.

Credit Hours

York College follows and applies federal and state guidelines in designing and offering courses. One hour of classroom or direct faculty instruction is equivalent to one credit and two hours of lab is equivalent to one credit for a 15 week semester:

"Credit hour: Except as provided in 34 CFR 668.8(k) and (l), a credit hour is an amount of work represented in intended learning outcomes and verified by evidence of student achievement that is an institutionally established equivalency that reasonably approximates not less than:

1. One hour of classroom or direct faculty instruction and a minimum of two hours of out of class student work each week for approximately fifteen weeks for one

- semester or trimester hour of credit, or ten to twelve weeks for one quarter hour of credit, or the equivalent amount of work over a different amount of time; or
2. At least an equivalent amount of work as required in paragraph (1) of this definition for other academic activities as established by the institution including laboratory work, internships, practica, studio work, and other academic work leading to the award of credit hours."

(As defined by US Federal Regulations 600.2 (vc 27))

Applying for Graduation

Students are required to apply for graduation on CUNYfirst during the semester prior to the semester in which they plan to complete their degree requirements for graduation. (See College Academic Calendar for exact application deadline date.)

Students can apply for graduation on CUNYfirst via the Student Center or Self Service. Students who will not be in attendance at York when completing their final requirements must first receive permission from the Office of the Registrar to graduate in absentia and apply for graduation.

Graduation Requirements

A minimum of 120 credits are required for the Baccalaureate degree.

To be considered for graduation, students must complete requirements in the following areas:

- General education/Pathways general education
- Major
- Liberal arts
- Writing intensive courses
- Grade Point Average of 2.0 or better (major and overall), a higher GPA may be required for professional programs (see program page).

It shall be University policy that all bachelor's degree programs require a maximum of 120 credits for graduation. Colleges may be granted waivers from the Office of Academic Affairs for undergraduate degree programs that require additional credits for certification or accreditation from outside professional organizations or for other compelling educational reasons. (BTM,1997,11-24,010,___)

(Source: CUNY Manual of General Policy)

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.

The following are NOT Liberal Arts courses:

Academic Computing, Accounting, Biotechnology (except Biotechnology 480), Business, Communications Technology, Co-op, Education, Health Education 200, 224 and 317, Health Professions (except EHS110, 140, HPGC 101, 102 and 201), Health Sciences Physician Assistant, Journalism 385, Marketing, Nursing, Occupational Therapy, Physical Education 100 and 200 level courses, 311, 312 and 313, Social Work, Student Development 102- 105 and 301, All Field Work, Internships and Practicum Courses.

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 Policy and Standards within the context of the above stipulation.

Graduation Honors

Graduation Honors will be established as follows:

1. Criteria
 1. Cum Laude, 3.500 - 3.699.
 2. Magna cum laude, 3.700 - 3.849.
 3. Summa cum laude, 3.850 - 4.000.
2. Meet the College's residency requirement of 56 credits.
3. Computation of Graduation Honors will be based on:
 1. The grades of A+ through F,
 2. NC, R, WU and failing grades with the Exclude Credit and GPA repeat code are calculated as F grades,
 3. Administrative grades of W, WA and WN are excluded from calculations, and

4. Eligibility will be calculated when all grades have been processed by the Office of the Registrar.
5. Requests for grade changes after the degree has been conferred cannot be processed. Therefore, the degree GPA and honors earned or not earned will remain unchanged.

Presidential Honors

The Graduation Honor of "Presidential Honors" is to be established:

1. Recognize students earning an overall GPA of 4.0, and
2. Having completed all course work at York College.

Graduating Terms

There are four conferral periods each year, August, January, February and May/June, but only one commencement exercise, in May/June. To be graduated, students must complete the following degree requirements:

Writing Intensive Course Requirements

Students who entered the College (or were readmitted*) in Fall 2001 or later must meet the Writing Intensive course requirement passed by the York College Senate, by taking three Writing Intensive-designated (WI) courses. Writing intensive courses are content courses in a specific discipline which require significant amounts of writing, and also focus on the genres and the writing process appropriate to the subject, including opportunities for revision.

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. Every student, including transfer students, is required to complete one upper division WI course within each declared major. If the major has no upper division WI course, the student must complete a WI course (outside of their major) chosen in consultation with their major advisor. The department chair will need to notify Writing Across the Curriculum (WAC) of this advised course that will satisfy the upper WI requirement. Writing Across the Curriculum, 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, and a list is posted on the Writing Across the Curriculum Program Website.^[47]

47. <http://york.cuny.edu/wac>

On a student's transcript, completed WI courses are indicated by a statement directly below the course. For further information, contact the Coordinator for Writing Across the Curriculum or see the WAC Program website.

*Students who have not been in attendance for two or more semesters must follow the Bulletin in effect at the time of readmission. Students who change their major must adhere to the major requirements identified in the bulletin in effect at the time of declaration of the new major.

**Transfer students with prior A.A., A.S. or Bachelor's degree are exempt from the lower division WI requirement.

Writing 301, 302, 303 or 304.

These are junior-level academic research and writing courses that help students transition from lower-division coursework to the more discipline-specific and independent work that characterizes inquiry in the upper-division in the majors. WRIT 301/302/303/304 is included in the Pathways College Option area.

Any of the four versions of Writing 300 will meet the Pathways College Option requirement. Students are advised to take the Writing 300 course most appropriate to their field of study whenever possible.

All students who entered York College before Fall 2013, and who have not opted in to the Pathways General Education curriculum, should complete Writing 301, 302, 303 or 304 (Writing 300) after ENG 126. Placement at the 60th credit makes it possible for Writing 300 to build on first-year writing and writing intensive lower-division coursework. Students who have opted in to Pathways should consider taking Writing 300 to fulfill part of their College Option; several majors require this course, and it is a prerequisite to some other courses.

For more information on these courses, see the Writing Program Website.^[48]

Information for Transfer students

Except for second-degree students, all students admitted between Fall 1996 and Fall 2013 must take Writing 301, 302, 303 or 304. All students admitted in Fall 2013 or later may take Writing 301, 302, 303 or 304 to fulfill part of the Pathways College Option. This course is also required by some majors.

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 Writing Intensive Advisory 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.

Bachelor Degree 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).
- Credits for Life Experience (see the Community Professional Program section).
- Credits for Military Service (see the section on Special Examinations).

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.

Grade Point Averages

Students are required to have (at least) 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 cannot graduate with an unresolved grade (INC/PEN), nor will any grade change be applied to the record once a student has graduated.

Posthumous Degree Policy

May be awarded posthumously, in the unfortunate event that a student passes away near the completion of his or her academic program, at York College. To recognize the

48. <http://york.cuny.edu/academics/writing-program>

student's work and as a source of solace for the family, next of kin (including child, parent, spouse, or domestic partner) may request a posthumous degree. The following requirements apply:

- The college must substantiate that the student is deceased, usually by obtaining a death certificate from the kin
- The student must have been enrolled in any term within one year of the degree date
- The student must be in good academic standing
- The student must have no disciplinary sanctions pending
- The death must not have been the result of illegal behavior on the part of the student

Please note that Latin honors are not awarded on posthumous degrees.

Associate Degree Student

A posthumous associate's degree will be granted to a deceased student who meets the general requirements above and who has completed a minimum 45 credits.

Bachelor's Degree Student

A posthumous bachelor's degree will be granted to a deceased student who meets the general requirements above and who has achieved senior standing (a minimum 90 credits earned).

Pathways General Education Requirements

EFFECTIVE FALL 2019

CUNY Pathways General Education Requirements consist of a Common Core for all CUNY students and the College Option (students in bachelor's degree programs). In consultation with an academic advisor, students select courses that satisfy Core requirements preparing them for their intended major programs.

Common Core

I. Required Core (12)

A. English Composition (6)

ENG 125 Composition I: Introduction to College Writing (3)

ENG 126 Composition II: Writing About Literature (3)

B. Mathematical and Quantitative Reasoning (3-4)

Choose **one** from the list below under advisement according to the major program of study.

MATH 111 Introduction to Statistics and Probability (4)

MATH 115 Quantitative Methods for Decision Making (4)

MATH 120 Precalculus (4)

MATH 121 Analytic Geometry and Calculus I (4)

MATH 150 Mathematics and its Applications (3)

MATH 190 Computers in Modern Society (4)

C. Life and Physical Sciences (3-5)

Choose **one** from the list below under advisement according to the major program of study.

ASTR 140 Introductory Astronomy: Observations of the Sky (3)

ASTR 141 Astronomy Laboratory (3)

BIO 140 Human Biology (3)

BIO 150 Conservation Biology (3)

BIO 201 Biological Principles I (4)

CHEM 106 Essentials of College Chemistry* (3.5) **AND**

CHEM 107 Essentials of College Chemistry Lab* (1.5)

EHS 140 Introduction to Environmental Sciences (3)

GEOL 140 Our Earth (3)

GEOL 282 Weather and Climate (3)

PHS 110 Medicine and Drugs of Abuse (3)

PHYS 113 Physics Laboratory** (1) **AND**

PHYS 115 College Physics** (4) **OR**

PHYS 117 University Physics** (4)

PHYS 140 The Physical Universe (3)

Notes:

*CHEM 106 and CHEM 107 are taken as co-requisites.

**PHYS 113 is taken as a co-requisite with PHYS 115 or PHYS 117.

II. Flexible Core (18)

To meet the requirements of the Flexible Core, students must take a total of six courses among the selections below. Students must take at least one course from each of the five domains and no more than two courses in any discipline or interdisciplinary field.

A. World Cultures and Global Issues

ANTH 101 Introduction to Cultural Anthropology (3)

ANTH 223 The Rise of Civilizations (3)

BLST 103 Black Women in the Atlantic World (3)

BLST 202 The Black Experience in the Caribbean (3)

CLDV 210 Western Civilization (3)

ENG 200 Understanding Literature (3)

ENG 272 World Englishes (3)

FA 105 Introduction to Fine Arts: Caves to Cathedrals (3)

FA 106 Introduction to Fine Arts: Cathedrals to Contemporary (3)

HIST 100 History of the Modern World Since 1815 (3)

HIST 108 The Three Worlds: Europe, the Americas, and the Third World in Modern Times (3)

HIST 113 The Birth of Europe (3)

HUM 200 Introduction to Intercultural Communication (3)

HUM 240 Food is Culture: The Success of 'Made in Italy' (3)

HUM 350 Italian Culture and Civilization (3)

POL 202 Comparative Politics (3)

POL 241 International Politics (3)

WLIT 201 The Literature of the Western World Through the Renaissance (3)

WLIT 205 Introduction to Francophone Literature (3)

WLIT 207 Introduction to Latin American Literature (3)

WLIT 210 North African Literature in Translation (3)

WLIT 211 Italian Theatre in Translation (3)

WLIT 212 Masterpieces in Spanish Literature (3)

WLIT 215 The Nineteenth Century Continental European Novel of Adultery in Translation (3)

B. U.S. Experience in its Diversity

ANTH 246 Ethnology and Ethnography of North American Indians (3)

BLST 101 Introduction to Black Studies (3)

ENG 240 Literary Traditions in the U.S. (3)

HIST 201 Beginnings of the American People (3)

HIST 202 The Emergence of Urban America (3)

HIST 204 Contemporary America (3)

HIST 273 The American Worker (3)

HIST 274 The American Ethnic Experience (3)

HUM 105 The Changing Depiction of the Family in American Popular Culture (3)

HUM 250 The Italian Experience in the United States (3)

HUM 252 The Jewish Experience in the United States (3)

HUM 253 The Haitian Experience in the USA (3)

JOUR 284 Social Justice Journalism (3)

POL 103 Politics and Government in the United States (3)
PRST 241 Puerto Ricans in New York (3)
SOC 235 Ethnicity (3)
SOC 289 Urban Sociology

C. Creative Expression

ANTH 270 Introduction to Ethnomusicology* (3)
ENG 286 Introduction to Creative Writing (3)
ENG 295 Technologies of Reading (3)
FA 101 Visual Elements: 2-Dimensional (3)
FA 102 Visual Elements: 3-Dimensional (3)
FA 297 History of Photography (3)
JOUR 281 Introduction to Feature Writing (3)
HUM 221 Pictures of Italy: A Journey into Modern and Contemporary Italy Through Film (3)
HUM 224 Cinematic Adaptation (3)
HUM 245 Fashion, Italian Style (3)
HUM 260 The World of Opera: A Concise History (3)
MUS 101 Introduction to Music History (3)
MUS 110 Fundamentals of Music Theory (3)
MUS 225 Computer Music (3)
MUS 250 African-American Music (3)
MUS 253 History of Jazz (3)
MUS 270 Introduction to Ethnomusicology* (3)
MUS 301 American Musical Theatre** (3)
SPCH 101 Fundamentals of Speech Communication (3)
SPCH 160 Fundamentals of Oral Interpretation: Prose and Poetry (3)
TA 110 Introduction to the Theatre (3)
TA 201 Shakespeare: From Script to Screen (3)
TA 210 History of Theatre (3)
TA 301 American Musical Theatre** (3)

Notes:

*ANTH 270 and MUS 270 are cross-listed. Either, but not both, may be taken.

**MUS 301 and TA 301 are cross-listed. Either, but not both, may be taken.

D. Individual and Society

ANTH 205 Anthropology of Sex (3)
ANTH 211 Anthropology and City Life (3)
ANTH 289 Understanding Youth in an Urban Context* (3)
ANTH 302 Anthropology of Aging (3)
CLDV 100 Introduction to Multicultural Studies in the 21st Century (3)
ECON 102 Introduction to Macroeconomics (3)
HUM 209 Gender and Language (3)
HUM 210 Language Development (3)
HUM 265 People of the Renaissance: The Golden Age of Italy (3)
HUM 304 Gender Dynamics in the Twentieth Century (3)
PHIL 103 Introduction to Philosophy (3)
POL 101 Introduction to Political Science (3)
POL 267 Classical Political Theory I: Plato to Machiavelli (3)
POL 268 Political Theory II: Machiavelli to Marx (3)
SOC 101 Introductory Sociology (3)
SOC 288 Understanding Youth in an Urban Context* (3)
YD 289 Understanding Youth in an Urban Context* (3)

Notes:

*ANTH 289, SOC 288, and YD 289 are cross-listed. One among these three may be taken.

E. Scientific World

ANTH 152 Medical Anthropology (3)
ASTR 101 Introductory Astronomy: The Sun and Planets (3)
ASTR 102 Introductory Astronomy: Stars, Galaxies, and the Universe (3)
BIO 110 Environmental Biology (3)
BIO 120 Principles of Inheritance and Human Reproduction (3)
BIO 130 Biology of the Brain and Behavior (3)
BIO 202 Biological Principles II (4)
BIO 234 Anatomy and Physiology I (4)
BIO 235 Anatomy and Physiology II (4)
CHEM 108 Principles of Chemistry I* (3.5) **AND**
CHEM 109 Principles of Chemistry I Lab* (1.5)
EHS 110 Science, Technology, and the Environment (3)
GEOL 110 Earth (3)
GEOL 115 Energy, Resources, and the Environment (3)
GEOL 120 Our Oceanic Environment (3)
GEOL 121 History of Life (3)
HPGC 102 Public Health (3)
HUM 202 Introduction to Linguistics (3)
PHIL 102 Beginning Informal Logic (3)
PHYS 114 Physics Laboratory II** (1) **AND**
PHYS 116 College Physics II** (4) **OR**
PHYS 118 University Physics II** (4)
PSY 102 Introductory Psychology (3)

Notes:

*CHEM 108 and CHEM 109 are taken as co-requisites.

**PHYS 114 is taken as a co-requisite with PHYS 116 or PHYS 118.

III. College Option

Students must complete A or B or C below, as applicable, in consultation with an academic advisor

A. 12 Credits (for native students, those entering York with fewer than 30 credits and students transferring from a 4-year institution)

Foreign language course 1 of 2* (3)
Foreign language course 2 of 2* (3)
HE 111 Personal Health Issues (3)
Writing Intensive (WI) course at the 200-level or higher (3) **OR**
WRIT 301 Research and Writing for the Major (3) **OR**
WRIT 302 Research and Writing for the Sciences, Math, and Technology (3) **OR**
WRIT 303 Research and Writing for Professional Programs (3) **OR**
WRIT 304 Research and Writing for English Majors** (3)

B. 9 Credits (for students who enter York with more than 30 credits from a 2-year program, but without an Associate's degree)

Foreign language course 1 of 2* (3)
Foreign language course 2 of 2* (3)
Writing Intensive (WI) course at the 200-level or higher

(3) **OR**

WRIT 301 Research and Writing for the Major (3) **OR**

WRIT 302 Research and Writing for the Sciences, Math, and Technology (3) **OR**

WRIT 303 Research and Writing for Professional Programs (3) **OR**

WRIT 304 Research and Writing for English Majors** (3)

C. 6 Credits (for student who enter York with an Associate's degree - AA, AS or AAS)

Writing Intensive (WI) course 1 of 2 at the 200-level or higher (3)

Writing Intensive (WI) course 2 of 2 at the 200-level or higher (3) **OR**

WRIT 301 Research and Writing for the Major (3) **OR**

WRIT 302 Research and Writing for the Sciences, Math, and Technology (3) **OR**

WRIT 303 Research and Writing for Professional Programs (3) **OR**

WRIT 304 Research and Writing for English Majors** (3)

Notes:

**Placement in foreign language courses is determined in consultation with the World Languages, Literatures, and Humanities department.*

*** Registration in WRIT 304 is limited to English majors.*

To find out how many College Option credits you might need, see the requirements for different kinds of students below:

CUNY Associate to CUNY Bachelor's Students who transfer from a CUNY associate to a CUNY bachelor's degree program

- Earned Associate Degree: 6 College Option credits required
- Earned More than 30 Credits: 9 College Option credits required
- Earned 30 or Fewer Credits: 12 College Option credits required

Non-CUNY Associate to CUNY Bachelor's Students transferring to CUNY from non-CUNY colleges

- Earned Associate Degree: 6 College Option credits required
- Earned More than 30 Credits: 9 College Option credits required
- Earned 30 or Fewer Credits: 12 College Option credits required.

A transfer student's CUNY college will decide whether any courses taken at the original college fulfill the College Option requirements.

CUNY Bachelor's Students pursuing a bachelor's degree at one CUNY college (without transferring)

- 12 College Option credits required (specified by their college).

CUNY Bachelor's to CUNY Bachelor's Students who transfer between CUNY bachelor's degree programs

- 12 College Option credits are required; HOWEVER, students can transfer the College Option credits they earn in a bachelor's degree program at one CUNY college toward their College Option requirement at any other CUNY college.

Non-CUNY Bachelor's to CUNY Bachelor's Students transferring to CUNY from non-CUNY colleges

- 12 College Option credits required. A transfer student's CUNY college will decide whether courses taken at the original college fulfill any of the College Option requirements.

Second Bachelor's Degree Students Students with earned bachelor's degrees from institutions that are accredited and recognized by a regional accrediting U.S. agency, as well as students from international universities with degrees that are equivalent to a baccalaureate degree as determined by CUNY

- No College Option credits required; these students are deemed to have automatically fulfilled the College Option.

York College Writing Intensive Course Requirements

In order to graduate, "native" York students, and students who transfer to York without an A.A., A.S. or prior Bachelor's degree must complete 3 courses designated Writing Intensive (WI). Two of these must be at the 100- and 200-level, and one should be at the 300 level or above, and be in the student's major. Students who transfer to York will be responsible for fulfilling all Writing Intensive course requirements for graduation. Students may transfer up to two Writing Intensive courses to fulfill this requirement. Transfer students should consult with an advisor about the number of WI courses required for graduation.

College Option

- Native and transfer students, and students who enter York with more than 30 credits from a 2 year program, but without an Associate's degree must either: complete a WI-designated course at the 200 level or higher OR WRIT 301/302/303/304.
- Transfer students who enter York with an Associate's degree (AA, AS or AAS) must complete EITHER two WI courses at the 200-level or above; OR WRIT 301/302/303/304 AND one WI course at the 200-level or above.

WI courses at the 200-level that students complete to fulfill the WI graduation requirement will simultaneously satisfy the College Option. WI courses transferred from other colleges and universities may satisfy the WI course requirement for graduation and the College Option; such determinations will be made on a case-by-case basis by the Registrar in consultation with academic departments. Transfer students should consult with an advisor about their WI requirements. WRIT 301/302/303/304 are not WI courses, and will not count towards the WI course

requirement for graduation. Unless WRIT 301/302/303/304 is explicitly required by a student's major program, it is not required as part of fulfilling College Option writing requirements. Students may use WI course(s) instead.

Rules, Regulations and Policies

Academic Integrity

In June 2011, the CUNY Board of Trustees adopted a revised policy on Academic Integrity. The initial policy, adopted in June 2004, is enhanced through this provision which provides definitions and examples of various forms of academic dishonesty, and outlines as well, a framework, with some options, for procedures that each College should implement.

The revised policy reflects evolving legal requirements and provides broader due process protections to students who deny the allegations of academic dishonesty where academic but not disciplinary sanctions are sought. The revised policy continues the practice of having Article XV Committees hear cases involving disciplinary sanctions.

The revised policy, procedures and forms are now posted on the Academic Integrity Officer^[49]

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 consulting with each instructor.

- Preparing answers or writing notes in a blue book (exam booklet) before an examination.

Allowing others to research and write assigned papers or do assigned projects, including use of commercial term paper services.

- Giving assistance to acts of academic misconduct/dishonesty.
- Fabricating data (all or in part).
- Submitting someone else's work as your own.

- Unauthorized use during an examination of any 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 this 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 and 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 this 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 Official Documents

The following are some examples of falsification, but by no means is this 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.

49. <http://york.cuny.edu/academics/academic-affairs/academic-integrity-officer>

Notice of Non-Discrimination Statement

It is the policy of The City University of New York, applicable to all colleges and units, to recruit, employ, retain, promote, and provide benefits to employees and to admit and provide services for students without regard to race, color, creed, national origin, ethnicity, ancestry, religion, age, sex, sexual orientation, gender, gender identity, marital status, partnership status, disability, genetic information, alienage, citizenship, military or veteran status, pregnancy, or status as a victim of domestic violence/stalking/sex offenses, unemployment status, or any other legally prohibited basis in accordance with federal, state and city laws. This policy is set forth more fully in CUNY's Policy on Equal Opportunity and Nondiscrimination.

Sexual misconduct is also prohibited at CUNY. This policy is set forth fully in CUNY's Policy on Sexual Misconduct.

It is also the University's policy to provide reasonable accommodations when appropriate to individuals with disabilities, individuals observing religious practices, employees who have pregnancy or childbirth-related medical conditions, or employees who are victims of domestic violence/stalking/sex offenses.

Retaliation for reporting or opposing discrimination, cooperating with an investigation of a discrimination complaint, or requesting an accommodation is also prohibited. This policy is set forth more fully in CUNY's Policy on Reasonable Accommodations and Academic Adjustments.

Lisa Miles-Boyce has been designated at York College to handle inquiries and complaints relating to CUNY's Policy on Equal Opportunity and Nondiscrimination as well as CUNY's Policy on Sexual Misconduct. Ms. Miles-Boyce's office is located in Room AC-2H04, her telephone number is (718)262-2137 and her email is amillesboyce@york.cuny.edu

Title IX

The City University of New York

Policy on Sexual Misconduct

CUNY students, employees and visitors deserve the opportunity to live, learn and work free from Sexual Misconduct.

This is the sole policy at CUNY addressing sexual harassment, gender-based harassment and sexual violence and is applicable at all college and units at the University. The CUNY community should also be aware of the following policies that apply to other forms of sex discrimination, as well as to other types of workplace violence and domestic violence that affect the workplace:

- The **CUNY Workplace Violence Policy** addresses workplace violence and the **CUNY Domestic Violence in the Workplace Policy** addresses domestic violence in or affecting employees in the workplace.

Prohibited Conduct

A. Sexual Misconduct

This policy prohibits sexual misconduct and retaliation against anyone who reports or cooperates in an investigation of alleged sexual misconduct.

Sexual harassment is unwelcome verbal or physical behavior based on a person's sex (including sexual orientation, gender, gender expression and gender identity, including transgender status). Conduct is considered "unwelcome" if the individual did not request or invite it and considered the conduct to be undesirable or offensive.

Forms of prohibited sexual misconduct include:

- Domestic and Dating Violence
- Sexual Assault
- Sexual Harassment
- Stalking
- Voyeurism

Each of these is further defined in the policy.

B. Retaliation.

This policy prohibits retaliation against any person who reports sexual misconduct, assists someone making such a report, or participates in any manner in an investigation or resolution of a sexual misconduct complaint.

C. Certain Intimate Relationships.

This policy also prohibits certain intimate relationships when they occur between a faculty member or employee and any student for whom they have professional responsibility.

Title IX Coordinator

Each college or unit of CUNY has an employee who has been designated as the Title IX Coordinator. This employee is responsible for compliance with Title IX of the Education Amendments of 1972 and NYS Education Law 129-b ("Enough is Enough"). The Title IX Coordinator has overall responsibility for implementing this policy, including overseeing the investigation of complaints at her/his college or unit and carrying out the other functions of that position.

- **Lisa Miles-Boyce** has been designated as the Title IX Coordinator for York College. Her office is located in Room AC-2H04 and her telephone number is (718) 262-2137. The Title IX Coordinator is responsible for investigating complaints of discrimination or denial of benefits based on sex in any educational program or activity. Anyone who feels that they are in imminent danger of harm should contact Public Safety at (718) 262-2222 or dial 911 immediately - The Public Safety Office is located in the Academic Core Building, Room 1M02.
- **Lisa Miles-Boyce** and Assistant Dean of Enrollment Management and Student Affairs **Paola Veras, LMSW** are the designated 504/ADA Coordinators for

York College, and support the Office of Diversity and Compliance and the Center for Students with Disabilities in coordinating the policies which fall under the Americans with Disabilities Act of 1990, effective January 26, 1992, and Section 504 of the Rehabilitation Act of 1973 (P.L. 93-112), which prohibits discrimination on the basis of disability. Ms. Miles-Boyce's office is located in Room AC-2H04 and her telephone number is (718) 262-2137. Dean Veras' is located in Room AC-1G02 and her telephone number is (718) 262-2073.

Note: For a copy of the complete policy, go to:

- Policy of Equal Opportunity and Non-Discrimination^[50]
- CUNY Policy on Sexual Misconduct^[51]
- CUNY's Drug/Alcohol Use Amnesty Policy^[52]

Religious Holidays and Observance

New York State Education Law, Article 5, Selection 2-a. Students unable because of religious beliefs to register to 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.

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

50. <http://www.cuny.edu/about/administration/offices/la/PolicyonEqualOpportunityandNonDiscriminationandProceduresDecember42014.pdf>

51. <https://www.cuny.edu/wp-content/uploads/sites/4/page-assets/about/administration/offices/legal-affairs/policies-procedures/Sexual-Misconduct-Policy.pdf>

52. <http://www2.cuny.edu/wp-content/uploads/sites/4/page-assets/about/administration/offices/legal-affairs/Drug-and-Alcohol-Use-Amnesty-Policy-10.1.2015.pdf>

sanctuary lies in the protection of intellectual freedom: the rights of professors to teach, of scholars to engage in the advancement of knowledge, of students to learn and to express their views, free from external pressures or interference.

These freedoms can flourish only in an atmosphere of mutual respect, civility, and trust among teachers and students, only when members of the University community are willing to accept self-restraint and reciprocity as the condition upon which they share in its intellectual autonomy. Academic freedom and the sanctuary of the University campus extend to all who share these aims and responsibilities. They cannot be invoked by those who would subordinate intellectual freedom to political ends, or who violate the norms of conduct established to protect that freedom.

Against such offenders the University has the right, and indeed the obligation, to defend itself. We accordingly announce the following rules and regulations to be in effect at each of our colleges which are to be administered in accordance with the requirements of due process as provided in the 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, with respect to his/her education unit, shall:

1. Have the affirmative responsibility of conserving and enhancing the educational standards of the college and schools under his jurisdiction;
2. 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;
3. Exercise general superintendence over the concerns, officers, employees, and students of his educational unit.

Rules

1. A member of the academic community shall not intentionally obstruct and/or forcibly prevent others from the exercise of their rights. Nor shall he interfere with the institution's educational processes or facilities, or the rights of those who wish to avail themselves of any of the institution's instructional, personal, administrative, recreational, and community services.
2. Individuals are liable for failure to comply with lawful directions issued by representatives of the University/college when they are acting in their official capacities. Members of the academic community are required to show their identification cards when requested to do so by an official of the college.

3. Unauthorized occupancy of University/college facilities or blocking access to or from such areas is prohibited. Permission from appropriate college authorities must be obtained for removal, relocation, and use of University/college equipment and/or supplies.
4. Theft from, or damage to University/college premises or property, or theft of or damage to property of any person on University/college premises is prohibited.
5. Each member of the academic community or an invited guest has the right to advocate his 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.
6. Action may be taken against any and all persons who have no legitimate reason for their presence on any campus within the University/college, or whose presence on any such campus obstructs and/or forcibly prevents others from the exercise of 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.
7. Disorderly or indecent conduct on University/college owned or controlled property is prohibited.
8. No individual shall have in his possession a rifle, shotgun, or firearm or knowingly have in his possession any other dangerous 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.
9. Any action or situation which recklessly or intentionally endangers mental or physical health or involves the forced consumption of liquor or drugs for the purpose of initiation into or affiliation with any organization is prohibited.
10. 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.
11. The unlawful possession, use, or distribution of alcohol by students or employees on University/college premises or as part of any University/college activities is prohibited.

Penalties

1. 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.
2. Any tenured or non-tenured faculty member, or other member of the instructional staff, or member of the classified staff engaging in any manner in conduct prohibited under substantive Rules 1-11 shall be subject to the following range of penalties: warning, censure, restitution, fine not exceeding those permitted by law or by the By-laws of CUNY or suspension with/without pay pending a hearing before an appropriate college authority, dismissal after a hearing, ejection, and/or arrest by the civil authorities, and, for engaging in any manner in conduct prohibited under substantive rule 10, may, in the alternative, be required to participate satisfactorily in an appropriately licensed drug treatment or rehabilitation program. A tenured or non-tenured faculty member, or other member of the instructional staff, or member of the classified staff charged with engaging in any manner in conduct prohibited under substantive Rules 1-11 shall be entitled to be treated in accordance with applicable provisions of the Education Law, or the Civil Service Law, or the applicable collective bargaining agreement, or the By-laws or written policies of CUNY.
3. Any visitor, licensee, or invitee, engaging in any manner in conduct prohibited under substantive Rules 1-11. shall be subject to ejection, and/or arrest by the civil authorities.
4. Any organization which authorized the conduct prohibited under substantive rules 1-11 shall have its permission to operate on campus rescinded.

Penalties 1-4 shall be in addition to any other penalty provided by law or The City University Trustees.

Appendix

Sanctions Defined:

1. **Admonition:** An oral statement to the offender that he has violated university rules.
2. **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.
3. **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.
4. **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.

5. **Restitution:** Reimbursement for damage to or misappropriation of property. Reimbursement may take the form of appropriate service to repair or otherwise compensate for damages.
6. **Suspension:** Exclusion from classes and other privileges or activities as set forth in the notice of suspension for a definite period of time.
7. **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.
8. **Complaint to Civil Authorities.**
9. **Ejection.**

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.

FERPA Annual Notice to Students: Access to Student Records

Annually, Colleges inform students of the Family Educational Rights and Privacy Act of 1974, (FERPA) as amended. The Office of the Registrar will disclose FERPA information by publishing a notice in the College Catalog, Registrar Website and in other appropriate locations. This annual notice shall prescribe the procedures whereby a student may make a formal request for non-disclosure of directory information, exercise the right to inspect and review education records, request an amendment of education records and obtain a copy of the College's education records policy. 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:

- 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. Schools are not required to provide copies of

records unless, for reasons such as great distance, it is impossible for students to review the records.

Schools may charge a fee for copies.

- 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.

- 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.

- You may appeal the alleged denial of FERPA rights to the:
Office of the General Counsel and Senior Vice
Chancellor for Legal Affairs
The City University of New York
205 East 42nd Street, 11th Floor
New York, NY 10017
- 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
400 Maryland Avenue, SW Washington, D.C.

20202-5920

For additional information visit the U.S. Department of Education website.^[53]

- Colleges 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
 - email address
 - full- or part-time status
 - enrollment status (undergraduate, graduate, etc.)
 - level of education (credits) completed major field of study
 - degree enrolled for
 - participation in officially recognized activities and sports
 - height and weight of athletic team
 - members

Student Folders: Family Educational Rights and Privacy Act of 1974 (Buckley Amendment)

Student access to their own folders is governed by the Family Educational Rights and Privacy Act of 1974 (Buckley Amendment). This law gives students the right to inspect their educational records within 45 days of the student's request to do so. An educational record is defined as records, files, documents and other materials which contain information directly related to a student, and are maintained by a college or a person acting for the college. However, certain materials are not open for inspection. These include financial information furnished by the student's parents, and confidential letters of evaluation which were placed in the records before Jan. 1, 1975. The student can waive his right of access to letters received after Jan. 1, 1975, if the letters are concerned with admission, employment or honors, and if the student is told on his report the names of all letter writers.

Students also do not have access to records made by teachers and administrators for their own use and not shown to others, employment records for college employees who are not also current students, and records created or maintained by a physician, psychiatrist, psychologist, or other recognized professional or paraprofessional acting or assisting in such capacity for treatment purposes, and which are available only to persons providing such treatment.

A student may request to see his educational record, and the institution must respond within 45 days. A student can challenge the contents of his educational record, and secure the correction of inaccurate or misleading entries.

53. <http://www.ed.gov/policy/gen/guid/fpco/ferpa/index.html>

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.

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.

Freedom of Information Law Notice

Requests to inspect public records at the college should be made to the Records Access Officer, **Russell Platzek, Esq., Executive Director of Legal Affairs and Labor Relations, 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.

Special Provisions for Students In The Military

The following policies apply to students who leave CUNY to fulfill military obligations.

1. Students called up to the reserves or drafted before the end of the semester.
 1. Grades. In order to obtain a grade, a student must attend 13 weeks (five weeks for summer session).
 2. 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.
3. Students who volunteer (enlist) for the military.
 1. 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).
 2. 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.]
3. Other Provisions for Military Service:
 1. 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.
 2. 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.

5. 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.
6. Readmission Fee. Upon return from military service, a student will not be charged a Readmission Fee to register at the same college.
7. Veterans Tuition Deferrals. Veterans are entitled to defer the payment of tuition pending receipt of veterans' benefits.
8. 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.
3. policies concerning the security of and access to campus facilities;
4. policies on campus law enforcement;
5. 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;
6. campus crime prevention programs;
7. policy concerning the monitoring through the police of criminal activity at off-campus locations of students organizations officially recognized by the college;
8. policies on illegal drugs, alcohol, and underage drinking;
9. where information provided by the State on registered sex offenders may be obtained (also see below); and
10. 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.

CUNY Policy on Withholding Student Records

Students who are delinquent and/or in default in any of their financial accounts with the college, the university or an appropriate state or federal agency for which the university acts as either a disturbing or certifying agent, and students who have not completed exit interviews as required by the federal

Perkins Loan Program, the federal Family Education Loan Programs, the William D. Ford Federal Direct Loan Program, and the Nursing Student Loan Program, are not to be permitted to complete registration, or issued a copy of their grades, a transcript of academic record, certificate, or degree, nor are they to receive funds under the federal campus-based student assistance programs or the federal Pell Grant Program unless the designated officer, in exceptional hardship cases and consistent with federal and state regulations, waives in writing the application of this regulation.

CUNY Policy on Acceptable Use of Computer Resources

Please see the link to the CUNY computer user responsibilities on the York College website.

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:

1. the campus crime statistics for the most recent calendar year and the two preceding calendar years;
2. campus policies regarding procedures and facilities to report criminal actions or other emergencies on campus;

The campus crime statistics and the annual campus security report are available at the Office of Public Safety.^[54] www.ed.gov/security/InstDetail.asp^[55]

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 Director of Public Safety at 718-262-2222 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^[56]

Alcohol and Drug Policy

The City University of New York ("CUNY") is an institution committed to promoting the physical, intellectual, and social development of all individuals. As such, CUNY seeks to prevent the abuse of drugs and alcohol, which can adversely impact performance and threaten the health and safety of students, employees, their families, and the general public. CUNY complies with all federal, state, and local laws concerning the unlawful possession, use, and distribution of drugs and alcohol. Federal law requires that CUNY adopt and implement a program to prevent the use of illicit drugs and abuse of alcohol by students and employees. As part of its program, CUNY has adopted this policy, which sets forth (1) the standards of conduct that students and employees are expected to follow; (2)

54. <http://york.cuny.edu/administrative/public-safety/right-to-know>

55. <http://www.ed.gov/security/InstDetail.asp>

56. http://www.criminaljustice.ny.gov/nsor/sor_about.htm

CUNY sanctions for the violation of this policy; and (3) responsibilities of the CUNY colleges/units in enforcing this policy. CUNY's policy also (1) sets forth the procedures for disseminating the policy, as well as information about the health risks of illegal drug and alcohol use, criminal sanctions for such use, and available counseling, treatment, or rehabilitation programs, to students and employees; and (2) requires each college to conduct a biennial review of drug and alcohol use and prevention on its campus. This policy applies to all CUNY students, employees and visitors when they are on CUNY property, including CUNY residence halls, as well as when they are engaged in any CUNY-sponsored activities off campus.

CUNY Standards of Conduct

The unlawful manufacture, distribution, dispensation, possession, or use of drugs or alcohol by anyone, on CUNY property (including CUNY residence halls), in CUNY buses or vans, or at CUNY-sponsored activities, is prohibited. In addition, CUNY employees are prohibited from illegally providing drugs or alcohol to CUNY students. Finally, no student may possess or consume alcoholic beverages in any CUNY residence hall, regardless of whether the student is of lawful age, except for students living in the Graduate School and University Center's graduate housing facilities who may lawfully possess and consume alcoholic beverages. For purposes of this policy, a CUNY residence hall means a residence hall owned and/or operated by CUNY, or operated by a private management company on CUNY's behalf. In order to make informed choices about the use of drugs and alcohol, CUNY students and employees are expected to familiarize themselves with the information provided by CUNY about the physiological, psychological, and social consequences of substance abuse.

CUNY Sanctions

Employees and students who violate this policy are subject to sanctions under University policies, procedures and collective bargaining agreements, as described below. Employees and students should be aware that, in addition to these CUNY sanctions, the University will contact appropriate law enforcement agencies if they believe that a violation of the policy should also be treated as a criminal matter.

Students

Students are expected to comply with the CUNY and college policies with respect to drugs and alcohol. Any student found in violation may be subject to disciplinary action under Article 15 of the Bylaws of the Board of Trustees, which may result in sanctions up to and including expulsion from the University. In addition, any student who resides in a CUNY residence hall and who is found to have violated any CUNY or college policy with respect to drugs and alcohol may be subject to sanctions under the CUNY Residence Hall Disciplinary Procedures, up to and including expulsion from the residence hall. In lieu of formal disciplinary action, CUNY may, in appropriate cases, seek to resolve the matter through an agreement

pursuant to which the student must see a counselor or successfully participate in a drug and alcohol treatment program. In accordance with the Federal Educational Rights and Privacy Act ("FERPA"), CUNY may also choose, when appropriate, to contact parents or legal guardians of students who have violated the CUNY policy on drugs and alcohol.

Employees

Any employee found to have violated this CUNY policy may be subject to disciplinary action, in accordance with the procedures set forth in applicable CUNY policies, rules, regulations, and collective bargaining agreements. Sanctions may include a reprimand, suspension without pay, or termination of employment. In lieu of formal disciplinary action, CUNY may, in appropriate cases, seek to resolve the matter through an agreement pursuant to which the employee must successfully participate in a drug or alcohol treatment program.

Responsibilities of CUNY Colleges/Units

Each college or unit of the University should make its best efforts to educate employees and students about this policy and the risks associated with the unlawful possession, use, or distribution of illegal drugs and alcohol. The President of each college or unit may choose to ban alcohol at on-campus functions or at any particular function. This policy, together with information about the health risks of illegal drug and alcohol use, criminal sanctions for such use, and counseling, treatment, or rehabilitation programs available to employees or students, must be distributed annually to all employees and students. The Chief Student Affairs Officer shall be responsible for the distribution of this material to students, and the Director of Human Resources shall be responsible for the distribution of the material to employees. The Vice President for Administration, or person performing the equivalent function at each college or unit of CUNY, shall be responsible for conducting a biennial review to determine the effectiveness of CUNY's drug and alcohol program at its college or unit, and to ensure that sanctions for drug and alcohol violations are consistently enforced. Upon completion, the biennial review must be sent to the University's Executive Vice Chancellor and Chief Operating Officer. This biennial review must include the number of drug and alcohol-related violations and fatalities that occur on the college's campus or as part of the college's activities, as well as the number and type of sanctions imposed as a result of drug and alcohol-related violations and fatalities that occur at the college as part of its activities.

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.

Procedures for Handling Student Complaints

The University and its Colleges have 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. One area not generally covered by other procedures concerns student complaints about faculty conduct in the classroom or other formal academic settings. The University respects the academic freedom of the faculty and will not interfere with it as it relates to the content or style of teaching activities. Indeed, academic freedom is and should be of paramount importance. At the same time the University recognizes its responsibility to provide students with a procedure for addressing complaints about faculty treatment of students that are not protected by academic freedom and are not covered by other procedures. Examples might include incompetent or inefficient service, neglect of duty, physical or mental incapacity and conduct unbecoming a member of the staff.

Determination of Appropriate Procedure

If students have any question about the applicable procedure to follow for a particular complaint, they should consult with the chief student affairs officer. In particular, the chief student affairs officer should advise a student if some other procedure is applicable to the type of complaint the student has.

1. Informal Resolution

Students are encouraged to attempt to resolve complaints informally with the faculty member or to seek the assistance of the department chairperson or campus ombudsman to facilitate informal resolution.

2. Formal Complaint

If the student does not pursue informal resolution, or if informal resolution is unsuccessful, the student may file a written complaint with the department chairperson or, if the chairperson is the subject of the complaint, with the academic dean or a senior faculty member designated by the college president. (This person will be referred to below as the Fact Finder.) Only students in a faculty member's class or present in another academic setting where the alleged conduct occurred may file complaints against that faculty member.

1. The complaint shall be filed within 30 calendar days of the alleged conduct unless there is good cause shown for delay, including but not limited to delay caused by an attempt at informal resolution. The complaint shall be as specific as possible in describing the conduct complained of.
2. 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. If either the student or the

faculty member has reason to believe that the department chairperson may be biased or otherwise unable to deal with the complaint in a fair and objective manner, he or she may submit to the academic dean or the senior faculty member designated by the college president a written request stating the reasons for that belief; if the request appears to have merit, that person may, in his or her sole discretion, replace the department chairperson as the Fact Finder. The chairperson may also submit a written request for recusal for good cause to the academic dean or senior faculty member designated by the college president to review such requests. If a recusal request is granted, a different department chairperson shall conduct the investigation, or, if no other chairperson is available, an administrator designated by the college president shall serve in the chairperson's stead. Further, the college president may re-assign investigations as necessary, including but not limited to situations in which a Fact Finder has not completed an investigation in a timely manner. In addition, during any time that no department chairperson is available to investigate a complaint, the college president may assign an administrator to investigate.

3. The Fact Finder shall meet with the complaining student and faculty member, either separately or together, to discuss the complaint and to try to resolve it. The Fact Finder may seek the assistance of the campus ombudsman or other appropriate person to facilitate informal resolution.
4. 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 and the chief student affairs officer. Otherwise, the Fact Finder shall conduct an investigation. The Fact Finder shall separately interview the complaining student, the faculty member and other persons with relevant knowledge and information and shall also consult with the appropriate school dean or chief student affairs officer and, if appropriate, the college's attorney. The Fact Finder shall not reveal the identity of the complaining student and the faculty member to others except to the extent necessary to conduct the investigation. If the Fact Finder believes it would be helpful, he or she may meet again with the student and faculty member after completing the investigation in an effort to resolve the matter. The complaining student and the faculty member shall have the right to have a representative (including a union representative,

student government representative or attorney) present during the initial meeting, the interview and any post-investigation meeting.

5. In cases where there is strong preliminary evidence that a student's complaint is meritorious and that the student may suffer immediate and irreparable harm, the Fact Finder may provide appropriate interim relief to the complaining student pending the completion of the investigation. The affected faculty member may appeal such interim relief to the chief academic officer.
6. At the end of the investigation, the Fact Finder shall issue a written report setting forth his or her findings and recommendations, with particular focus on whether the conduct in question is protected by academic freedom, and send a copy to the complaining student, the faculty member, the chief academic officer (and/or the appropriate school dean) and the chief student affairs officer. In ordinary cases, it is expected that the investigation and written report should be completed within 30 calendar days of the date the complaint was filed.

Appeals Procedure

If either the student or the faculty member is not satisfied with the report of the Fact Finder, the student or faculty member may file a written appeal to the chief academic officer within 10 calendar days of receiving the report, which time period may be extended for good cause shown. The chief academic officer shall convene and serve as the chairperson of an Appeals Committee, which shall also include the chief student affairs officer, two faculty members elected annually by the faculty council or senate and one student elected annually by the student senate. The Appeals Committee shall 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 proceedings. 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, the department chairperson and the president.

Subsequent Action

Following the completion of these procedures, the appropriate college official shall decide the appropriate action, if any, to take. For example, the department chairperson may decide to place a report in the faculty

member's personnel file or the president may bring disciplinary charges against the faculty member. Disciplinary charges may also be brought in extremely serious cases even though the college has not completed the entire investigative process described above; in that case, the bringing of disciplinary charges shall automatically suspend that process. Any action taken by a college, whether interim or final, must comply with the bylaws of the University and the collective bargaining agreement between the University and the Professional Staff Congress.

Campus Implementation

Each campus shall implement these procedures and shall distribute them widely to administrators, faculty members and students and post them on the college website.

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 Academic Affairs website.^[57]

The City University of New York Policy on Acceptable use of Computer Resources

1. Introduction

CUNY's computer resources are dedicated to the support of the University's mission of education, research and public service. In furtherance of this mission, CUNY respects, upholds and endeavors to safeguard the principles of academic freedom, freedom of expression and freedom of inquiry.

CUNY recognizes that there is a concern among the University community that because information created, used, transmitted or stored in electronic form is by its nature susceptible to disclosure, invasion, loss, and similar risks, electronic communications and transactions will be particularly vulnerable to infringements of academic freedom. CUNY's commitment to the principles of academic freedom and freedom of expression includes electronic information. Therefore, whenever possible, CUNY will resolve doubts about the need to access CUNY Computer Resources in favor of a User's privacy interest.

However, the use of CUNY Computer Resources, including for electronic transactions and communications, like the use of other University-provided resources and activities, is subject to the requirements of legal and ethical behavior. This policy is intended to support the free exchange of ideas among members of the CUNY community and between the CUNY community and other communities, while recognizing the responsibilities and limitations associated with such exchange.

57. <http://york.cuny.edu/academics/policies/Procedures-for-Handling-Student-Complaints20071217.pdf>

2. **Applicability**

This policy applies to all Users of CUNY Computer Resources, as defined in Article III below.

This policy supersedes the CUNY policy titled "CUNY Computer User Responsibilities" and any college policies that are inconsistent with this policy.

3. **Definitions**

1. "CUNY Computer Resources" refers to all computer and information technology hardware, software, data, access and other resources owned, operated, or contracted by CUNY. This includes, but is not limited to, desktop and laptop computers, handheld devices that allow or are capable of storing and transmitting information (e.g., cell phones, tablets), mainframes, minicomputers, servers, network facilities, databases, memory, memory sticks, and associated peripherals and software, and the applications they support, such as e-mail, cloud computing applications, and access to the internet.
2. "E-mail" includes point-to-point messages, postings to newsgroups and listservs, and other electronic messages involving computers and computer networks.
3. "Faculty" includes full-time, part-time, and adjunct faculty.
4. "FOIL" is the New York State Freedom of Information Law.
5. "Non-Public University Information" has the meaning set forth in CUNY's IT Security Policies and Procedures found at security.cuny.edu, namely: personally identifiable information (such as an individual's Social Security Number; driver's license number or non-driver identification card number; account number, credit or debit card number, in combination with any required security code, access code, or password that would permit access to an individual's financial account; personal electronic mail address; Internet identification name or password; and parent's surname prior to marriage); information in student education records that is protected under the Family Educational Rights and Privacy Act of 1974 (FERPA) and the related regulations set forth in 34 CFR Part 99; other information relating to the administrative, business, and academic activities and operations of the University (including employee evaluations, employee home addresses and telephone numbers, and other employee records that should be treated confidentially); and any other information available in University files and systems that by its nature should be treated confidentially.
6. "User" means a user of CUNY Computer Resources, including all current and former users, whether affiliated with CUNY or not, and whether accessing those resources on a CUNY campus or remotely.

7. **Rules for use of CUNY Computer Resources**

1. **Authorization.**

1. Users may not access a CUNY Computer Resource without authorization or use it for purposes beyond the scope of authorization. This includes attempting to circumvent CUNY Computer Resource system protection facilities by hacking, cracking or similar activities, accessing or using another person's computer account, and allowing another person to access or use the User's account.
2. Notwithstanding subsection 1.a. above, a User may authorize a colleague or clerical assistant to access information under the User's account on the User's behalf while away from a CUNY campus or when the User is unable to efficiently access the information on the User's own behalf (including as a result of a disability), but delegated access will be subject to the rules of Section 10 - Security, below.
3. CUNY Computer Resources may not be used to gain unauthorized access to another computer system within or outside of CUNY. Users are responsible for all actions performed from their computer account that they permitted or failed to prevent by following ordinary security precautions. CUNY advisories and resources are available at security.cuny.edu.

4. **Purpose.**

1. Use of CUNY Computer Resources is limited to activities relating to the performance by CUNY employees of their duties and responsibilities and by students in connection with their college courses and activities. For example, use of CUNY Computer Resources for private commercial or not-for-profit business purposes, for private advertising of products or services, or for any activity meant solely to foster personal gain, is prohibited. Similarly, use of CUNY Computer Resources for partisan political activity is also prohibited.
2. Except with respect to CUNY employees other than faculty, where a supervisor has prohibited it in writing, incidental personal use of CUNY Computer Resources is permitted so long as such use does not interfere with CUNY operations, does not compromise the functioning of CUNY Computer Resources, does not interfere with the User's employment or other obligations to CUNY, and is otherwise in compliance with this policy, including subsection 2.a. above. Users should be aware that personal messages, data and other information sent or received through a User's CUNY account or otherwise residing in a CUNY Computer Resource are subject to CUNY review pursuant to Section 13 of this policy and may also be subject to public disclosure pursuant to FOIL.

3. Compliance with Law.

1. CUNY Computer Resources may not be used for any purpose or in any manner that violates CUNY rules, regulations or policies, or federal, state or local law. Users who engage in electronic communications with persons in other states or countries or on other systems or networks may also be subject to the laws of those other states and countries, and the rules and policies of those other systems and networks. Users are responsible for ascertaining, understanding, and complying with the laws, rules, policies, contracts, and licenses applicable to their particular use.
2. Examples of applicable federal and state laws include those addressing defamation, invasion of privacy, obscenity and child pornography, and online gambling, as well as the following:

Computer Fraud and Abuse Act
Copyright Act of 1976
Electronic Communications Privacy Act
Export control regulations issued by the U.S. Departments of Commerce, State and Treasury
Family Educational Rights and Privacy Act
FOIL
New York State Law with respect to the confidentiality of library records

3. Examples of applicable CUNY rules and policies include those listed below. Other rules and policies may be found in the Manual of General Policy and on the CUNY Legal Affairs website:

Gramm-Leach-Bliley Information Security Program
IT Security Policies and Procedures
Policy on Maintenance of Public Order (the "Henderson Rules")!! Sexual Harassment Policy
University Policy on Academic Integrity!
Web Site Privacy Policy
4. Users may use only legally obtained, licensed data or software and must comply with applicable licenses or other contracts, as well as copyright, trademark and other intellectual property laws.
5. Much of what appears on the internet and/or is distributed via electronic communication is protected by copyright law, regardless of whether the copyright is expressly noted. Users should generally assume that material is copyrighted unless they know otherwise, and not copy, download or distribute copyrighted material without permission unless the use does not exceed fair use as defined by the federal Copyright Act of 1976. Protected material may include, among other things, text, photographs, audio, video, graphic illustrations, and computer software. Additional information regarding copyright and file sharing is available on the CUNY Legal Affairs website.
6. Users may not invade the privacy of others by, among other things, viewing, copying, redistributing, posting such data to the Internet, modifying or destroying

data or programs belonging to or containing personal or confidential information about others, without explicit permission to do so.

7. CUNY employees must take precautions by following all IT Security Policies and Procedures to protect the confidentiality of Non-Public University Information encountered in the performance of their duties or otherwise.
8. CUNY Computer Resources must not be used in a manner that could reasonably be expected to cause or does cause, directly or indirectly, unwarranted or unsolicited interference with the activity of other users, including:
9. CUNY has the right to require Users to limit or refrain from other specific uses if, in the opinion of the IT director at the User's college, such use interferes with efficient operations of the system, subject to appeal to the President or, in the case of central office staff, to the Chancellor.
10. CUNY names, trademarks and logos belong to the University and are protected by law. Users of CUNY Computer Resources may not state or imply that they speak on behalf of CUNY or use a CUNY name, trademark or logo without authorization to do so. Affiliation with CUNY does not, by itself, imply authorization to speak on behalf of CUNY.
11. Notwithstanding subsection 9.a. above, CUNY employees and students may indicate their CUNY affiliation on e-mail, other correspondence, and in academic or professionally-related research, publications or professional appearances, so long as they do not state or imply that they are speaking on behalf of the University.

1. Licenses and Intellectual Property.

1. **False Identity and Harassment.** Users may not employ a false identity, mask the identity of an account or computer, or use CUNY Computer Resources to engage in abuse of others, such as sending harassing, obscene, threatening, abusive, deceptive, or anonymous messages within or outside CUNY.
2. **Confidentiality.**
 1. **Integrity of Computer Resources.** Users may not install, use or develop programs intended to infiltrate or damage a CUNY Computer Resource, or which could reasonably be expected to cause, directly or indirectly, excessive strain or theft of confidential data on any computing facility. This includes, but is not limited to, programs known as computer viruses, Trojan horses, and worms. Users should consult with the IT director at their college before installing any programs on CUNY Computer Resources that they are not sure are safe or may cause excess strain.
 2. **Disruptive Activities.**
 1. chain letters, virus hoaxes or other e-mail transmissions that potentially disrupt normal e-mail service;

2. spamming, junk mail or other unsolicited mail that is not related to CUNY business and is sent without a reasonable expectation that the recipient would welcome receiving it;
 3. the inclusion on e-mail lists of individuals who have not requested membership on the lists, other than the inclusion of members of the CUNY community on lists related to CUNY business; and
 4. downloading of large videos, films or similar media files for personal use.
5. A CUNY employee or student may apply to the General Counsel for an exception or waiver from one or more of the provisions of this policy. Such application may be for a single use or for periodic or continuous uses, such as in connection with a course or program. Any application for a waiver should be made prior to using the CUNY Computer Resource for the purposes described in the application.
 6. The written waiver application must state:
 7. The General Counsel shall consult with the CUNY's chief information officer and the president of the applicant's college (or, if the applicant is a Central Office employee, the Chancellor) or their designees, prior to making a determination regarding the application.
 8. Users should be aware that CUNY cannot waive federal, state or local law; for example, the contents of CUNY Computer Resources (including confidential research information) may be subject to a valid subpoena regardless of the terms of any waiver.
 9. Violation of this policy may result in suspension or termination of an individual's right of access to CUNY Computer Resources, disciplinary action by appropriate CUNY authorities, referral to law enforcement authorities for criminal prosecution, or other legal action, including action to recover civil damages and penalties.
 10. Violations will normally be handled through the University disciplinary procedures applicable to the relevant User. For example, alleged violations by students will normally be investigated, and any penalties or other discipline will normally be imposed, by the Office of Student Affairs.
 11. CUNY has the right to temporarily suspend computer use privileges and to remove from CUNY computer resources material it believes violates this policy, pending the outcome of an investigation of misuse or finding of violation. This power may be exercised only by the president of each college or the Chancellor.
 12. CUNY shall not be responsible for any damages, costs or other liabilities of any nature whatsoever with regard to the use of CUNY Computer Resources. This includes, but is not limited to, damages caused by unauthorized access to CUNY Computer Resources, data loss, or other damages resulting from delays, non-deliveries, or service interruptions, whether or not resulting from circumstances under the CUNY's control.
 13. Users receive and use information obtained through CUNY Computer Resources at their own risk. CUNY makes no warranties (expressed or implied) with respect to the use of CUNY Computer Resources. CUNY accepts no responsibility for the content of web pages or graphics that are linked from CUNY web pages, for any advice or information received by a user through use of CUNY Computer Resources, or for any costs or charges incurred by a user as a result of seeking or accepting such advice or information.

1. CUNY Names and Trademarks.

1. Security.

CUNY employs various measures to protect the security of its computer resources and of Users' accounts. However, CUNY cannot guarantee such security. Users are responsible for engaging in safe computing practices such as guarding and not sharing their passwords, changing passwords regularly, logging out of systems at the end of use, and protecting Non-Public University Information, as well as for following CUNY's IT Security Policies and Procedures.

1. Users must report incidents of non-compliance with IT Security Policies and Procedures or other security incidents to the University Chief Information Officer and Chief Information Security Officer, and the Chief Information Officer at the affected User's college.
2. Copying. CUNY may copy a User's account and/or hard drive on a CUNY Computer Resource, without monitoring or inspecting the contents of such account and/or hard drive, at any time for preservation of data or evidence, without notice to the User.
3. General Monitoring Practices. CUNY does not routinely monitor, inspect, or disclose individual usage of CUNY Computer Resources without the User's consent. In most instances, if the University needs information located in a CUNY Computer Resource, it will simply request it from the author or custodian. However, CUNY IT professionals and staff do regularly monitor general usage patterns as part of normal system operations and maintenance and might, in connection with these duties, observe the contents of web sites, e-mail or other electronic communications. Except as provided in this policy or by law, these individuals are not permitted to seek out contents or transactional information, or disclose or otherwise use what they have observed. Nevertheless, because of the inherent vulnerability of computer technology to unauthorized intrusions, Users have no guarantee of privacy during any use of CUNY computer resources or in any data in them, whether or not a password or other entry identification or encryption is used. Users may expect that the privacy of their electronic communications and of any materials stored in any CUNY Computer Resource dedicated to their use will not be intruded upon by CUNY except as outlined in this policy.
4. Monitoring without Notice.

14. CUNY reserves the right to change this policy and other related policies at any time. CUNY reserves any rights and remedies that it may have under any applicable law, rule or regulation. Nothing contained in this policy will in any way act as a waiver of such rights and remedies.
1. **Filtering.** CUNY reserves the right to install spam, anti-malware, and spyware filters and similar devices if necessary in the judgment of CUNY's Office of Information Technology or a college IT director to protect the security and integrity of CUNY Computer Resources. CUNY will not install filters that restrict access to e-mail, instant messaging, chat rooms or websites based solely on content, unless such content is illegal, such as child pornography sites.
 2. **Confidential Research Information.** Principal investigators and others who use CUNY Computer Resources to collect, examine, analyze, transmit or store research information that is required by law or regulation to be held confidential or for which a promise of confidentiality has been given are responsible for taking steps to protect such confidential research information from unauthorized access or modification. In general, this means storing the information on a computer or auxiliary hard drive that provides strong access controls (passwords) and encrypting files, documents, and messages for protection against inadvertent or unauthorized disclosure while in storage or in transit over data networks. Robust encryption and passwords must be used to protect Non-Public University Information, and is strongly recommended for information stored electronically on all computers, especially portable devices such as notebook computers, Personal Digital Assistants (PDAs), and portable data storage (e.g., auxiliary hard drives, memory sticks) that are vulnerable to theft or loss, as well as for information transmitted over public networks. Software and protocols used should be reviewed and approved by CUNY's Office of Information Technology. In addition, the steps taken to protect such confidential research information should be included in submissions to the CUNY Institutional Review Board reviewing the research protocol.
 3. **CUNY Access to Computer Resources.**
 1. Categories. CUNY may specifically monitor or inspect the activity and accounts of individual users of CUNY computer resources, including individual login sessions, e-mail and other communications, without notice, in the following circumstances:
 1. when the User has voluntarily made them accessible to the public, as by posting to Usenet or a web page;
 2. when it is reasonably necessary to do so to protect the integrity, security, or functionality of CUNY or other computer resources, as determined by the college chief information officer or his or her designee, after consultation with CUNY's chief information officer or his or her designee;
 3. when it is reasonably necessary to diagnose and resolve technical problems involving system hardware, software, or communications, as determined by the college chief information officer or his or her designee, after consultation with CUNY's chief information officer or his or her designee;
 4. when it is reasonably necessary to determine whether CUNY may be vulnerable to liability, or when failure to act might result in significant bodily harm, significant property loss or damage, or loss of evidence, as determined by the college president or a vice president designated by the president or, in the case of the Central Office by the Chancellor or his or her designee, after consultation with the Office of General Counsel and the Chair of the University Faculty Senate (if a current CUNY faculty member's account or activity is involved) or Vice Chair if the Chair is unavailable;
 5. when there is a reasonable basis to believe that CUNY policy or federal, state or local law has been or is being violated, as determined by the college president or a vice president designated by the president or, in the case of the Central Office by the Chancellor or his or her designee, after consultation with the Office of General Counsel and the Chair of the University Faculty Senate (if a current CUNY faculty member's account or activity is involved) or Vice Chair if the Chair is unavailable;
 6. when an account appears to be engaged in unusual or unusually excessive activity, as indicated by the monitoring of general activity and usage patterns, as determined by the college president or a vice president designated by the president and the college chief information officer or his or her designee or, in the case of the Central Office by the Chancellor or his or her designee, after consultation with CUNY's chief information officer or his or her designee, the Office of General Counsel, and the Chair of the University Faculty Senate (if a current CUNY faculty

member's account or activity is involved) or Vice Chair if the Chair is unavailable; or as otherwise required by law.

7. Procedures. In those situations in which the Chair of the University Faculty Senate is to be consulted prior to monitoring or inspecting an account or activity, the following procedures shall apply:
 1. if the monitoring or inspection of an account or activity requires physical entry into a faculty member's office, the faculty member shall be advised prior thereto and shall be permitted to be present to observe, except where specifically forbidden by law; and
 2. the college president or the Chancellor, as the case may be, shall report the completion of the monitoring or inspection to the Chair and the CUNY employee affected, who shall also be told the reason for the monitoring or inspection, except where specifically forbidden by law.
3. Other Disclosure.
 1. CUNY, in its discretion, may disclose the results of any general or individual monitoring or inspection to appropriate CUNY personnel or agents, or law enforcement or other agencies. The results may be used in college disciplinary proceedings, discovery proceedings in legal actions, or otherwise as is necessary to protect the interests of the University.
 2. In addition, users should be aware that CUNY may be required to disclose to the public under FOIL communications made by means of CUNY Computer Resources whether in conjunction with University business or as incidental personal use.
 3. Any disclosures of activity of accounts of individual Users to persons or entities outside of CUNY, whether discretionary or required by law, shall be approved by the General Counsel and shall be conducted in accordance with any applicable law. Except where specifically forbidden by law, CUNY employees

subject to such disclosures shall be informed promptly after the disclosure of the actions taken and the reasons for them.

4. Annual Statement. The Office of General Counsel shall issue an annual statement of the instances of account monitoring or inspection that fall within categories D through G above. The statement shall indicate the number of such instances and the cause and result of each. No personally identifiable data shall be included in this statement.
5. Privacy Policy. See CUNY's Web Site Privacy Policy^[58]

1. **Waiver of Policy**

1. the policy provision or provisions for which the User is seeking a waiver;
2. how the User plans to use CUNY Computer Resource to be covered by the waiver and the reasons why the User believes a waiver should be approved;
3. if the waiver involves confidential research information, what steps will be taken to protect such information;
4. the length of time for which the waiver is being requested; and
5. if a student, how and by whom the student will be supervised.

1. **Enforcement.**

1. **Additional Rules.** Additional rules, policies, guidelines and/or restrictions may be in effect for specific computers, systems, or networks, or at specific computer facilities at the discretion of the directors of those facilities. Any such rules which potentially limit the privacy or confidentiality of electronic communications or information contained in or delivered by or over CUNY Computer Resources will be subject to the substantive and procedural safeguards provided by this policy.

2. **Disclaimer.**

Approved by the Board of Trustees on January 29, 2007, Cal. No. 4.D., with amendments approved on June 25, 2012, Cal. No. 5.A.

58. <http://www.cuny.edu/website/privacy.html>

School of Arts and Sciences

Through its academic departments, centers and unique programs, the School of Arts and Sciences offers undergraduate degrees in the arts, humanities, mathematics and sciences. We offer courses in the traditional liberal arts and sciences disciplines, and in selected pre- and professional programs.

Courses and programs in the School are designed to provide a challenging education with state-of-the-art classroom and laboratory work, together with vital internship and research experiences. Students are instructed and mentored by exceptional teacher-scholars to develop and broaden critical thinking, effective oral and written communication, problem-solving, ethical decision-making, and information technology skills that are the requisite foundation of their success in a changing global environment. The School is constantly introducing new courses, new programs and new technologies to prepare students for rewarding careers and personal accomplishment.

Students in the School of Arts and Sciences are privileged to study with outstanding faculty members, nationally and internationally recognized, who are dedicated teachers committed to innovative approaches to instruction, research and creative work. Students will benefit from a wide-ranging rigorous academic involvement that will prepare them for graduate school or the work place. Their

experiences inside and outside of the classroom will enhance their appreciation and understanding of diverse cultures, ready them for meeting their career goals and help them in becoming educated, responsible citizens.

Additionally, the School of Arts and Sciences provides courses to prepare students for admission to professional programs such as dentistry, education, medicine, law, pharmaceutical science, occupational therapy and social work.

The specific aims of the School include:

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

For more information, explore our website and, of course, come for a visit.

Department of Behavioral Sciences

**Academic Core Building, Room 4D06
718-262-2680**

Apkarian, Jacob, Assistant Professor

Ashton, William, Associate Professor

Berwid, Olga, Assistant Professor

Chirico, Donna, Professor

Daniels, Ron, Distinguished Lecturer

Davies, Kristin, Associate Professor

Duncan, Robert, Associate Professor

Hansen, Ian, Associate Professor

Levey, Tania, Professor

Majerovitz, Deborah, Professor

Mokrue, Kathariya, Associate Professor

Preiser, Lawrence, Assistant Professor

Sharpe, Michael, Associate Professor

Swoboda, Debra, Professor and Chair

Villegas, Francisco, Associate Professor

Zhang, Xiaodan, Associate Professor

Aviation Policy (Minor)

Requirements for the Aviation Policy Minor		15
Required Courses*		6
POL210	Introduction to Political Economy	3
POL228	Public Administration in the Political Setting	3
Electives		9
Group 1 Electives		3
Choose one from the following:		
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
Group 2 Electives		3
Choose one from the following:		
ECON310	Public Finance (Cross listed as Political Science 311)	3
POL320	Risk Management for Public Policy	3
POL329	Public Administration: Management Process	3
Group 3 Electives		3
Choose one from the following:		
BUS392	Aviation Internship in the Private Sector	3
POL392	Aviation Internship in the Public Sector	3
POL402	Aviation Policy Seminar	3

Total Credits Required for the Minor in Aviation Policy 15

*Students are required to complete POL 103 in partial fulfillment of Pathways General Education Requirements, as a prerequisite to the Political Science courses in this minor.

International Relations (Minor)

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

*Students are required to complete Political Science 103 in partial fulfillment of Pathways General Education Requirements as a prerequisite to these courses.

Labor Studies within Political Science (Minor)

Requirements for the Labor Studies within Political Science Minor		15
Demography and Social Strata		3
Choose one from the following:		
POL214	Racial and Ethnic Politics	3
SOC235	Ethnicity	3
HIST274	The American Ethnic Experience	3
BLST242	The Urbanization of Contemporary African America	3
Socio-Political Context of the Work Place: Office and Factory		3
Choose one from the following:		
POL214	Racial and Ethnic Politics	3
POL285	Urban Government in the United States	3
SOC238	Industrial Sociology	3
SOC239	Sociology of Work	3
BLST331	The Civil Rights Movement in America	3
HIST273	The American Worker	3
Theories of the Working Class and Trade Unionism		3
Choose one from the following:		
POL340	American Capitalism: Political and Social Aspects	3
POL367	Contemporary Political Theory	3
ECON361	Economics of Trade Unions and Collective Bargaining in the United States	3
HIST333	Nineteenth-Century Europe	3
American Labor and American Business		6
Choose two from the following:		
POL311	Advanced Topics in Political Science	3
POL312	Advanced Topics in Political Science	3
POL340	American Capitalism: Political And Social Aspects	3
POL367	Contemporary Political Theory	3
ECON360	Labor Economics	3

BLST354	The Role of Blacks in the American Economy	3
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*Students are required to complete POL 103 in partial fulfillment of Pathways General Education Requirements, as a prerequisite to the Political Science courses in this minor.

Political Science (BA)

HEGIS Number 2207

Political Science Program Mission Statement

The Political Science program is aligned with the mission of the Department of Behavioral Sciences and York College in the following ways. We strive to provide students with the knowledge and skills that will prepare them for careers, as well as graduate and professional studies, and to contribute as active citizens in our ever-changing interdependent world. Our students will develop critical reading, writing and thinking skills to evaluate the structure and operation of politics and power, including their own and other political systems. The Political Science program encourages community service and social responsibility both through our course work and community-based internships. Students have an opportunity to do independent research to gain research experience and mentorship from individual faculty members. We offer a flexible program that serves the interests of our diverse and multicultural college community. The program will provide the foundation for students to become informed, active, socially responsible, and ethical citizens, professionals, and leaders.

Political Science Major Program Goals

Goal.1

Acquisition of Knowledge and Critical Thinking Skills for Professional Life and Graduate Studies

Goal.2

Making Evidence-Based Arguments

Goal.3

Engagement with Real-world Political and Professional Contexts

Political Science BA		43-44
I. Foundation Courses*		18
POL101	Introduction to Politics	3
POL103	Politics & Government of the United States*	3
POL202	Comparative Politics**	3
POL241	International Relations**	3
One methods course chosen from the following:		3
POL221	Research Methods in Political Science	3
POL222	Social Research Methods I	3
POL321	Social Research Methods II	3
POL351	Qualitative Research Methods and Analysis	3

One theory 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
II. Concentration		15-16
Choose from ONE of two concentrations.		
Concentration I: International Relations, Diplomacy and Development		15
POL210	Introduction to Political Economy	3
POL346	American Foreign Policy	3
Any two (2) of the following area studies courses:		6
POL250	Latin American Politics	3
POL253	Caribbean Politics	3
POL256	African Politics	3
POL257	Asian Politics	3
POL258	Middle East Politics	3
POL285	Urban Politics	3
One (1) of the following courses:		3
POL219	Psychology of Terrorism	3
POL311	Advanced Topics in Political Science (security/diplomacy)	3
Concentration II: Law, Public Policy and Public Administration		15-16
Any one (1) of the following courses:		3
POL226	The U.S. Supreme Court	3
POL327	Congress and the Presidency	3
POL387	Political Processes in the American States	3
Any three (3) of the following courses:		9
POL228	Public Administration	3
POL275	Introduction to Law	4
POL322	Courts and Public Policy	3
POL330	Public Policy	3
Any one (1) of the following policy courses:		3
POL230	Correctional Administration	3
POL271	Politics of Education	3
POL273	Politics of Aging	3
POL280	Transportation: Planning Finance and Policy	3
POL285	Urban Politics	3
POL309	Aviation Law	3
POL373	Politics of the Environment	3
III. Capstone Courses		10
POL393	Seminar-Internship in New York City Government and Community Development	4
or		
POL394	Seminar-Internship in New York City Government and Community Development	4
Any one (1) of the following seminar courses:		3
POL385	New York City Government & Politics	3
POL425	Seminar or Civil Liberties	3
POL444	Seminar in Comparative Foreign Policies	3
POL453	Seminar in Global Change	3
POL480	Seminar in Contemporary Urban Problems	3
One (1) elective in Political Science (200-level or higher)		3
Credit Totals		

Total Political Science program credits	43-44
Total Core Curriculum credits	33-42
Total free elective credits	34-44
Total credits for the BA in Political Science	120

Notes:

*POL 103 may also be taken to fulfill the Flexible Core: U.S. Experience in its Diversity requirement.

**POL 202 or POL 241 may also be taken to fulfill the Flexible Core: World Cultures and Global Issues requirement.

***POL 267 or POL 268 may also be taken to fulfill the Flexible Core: Individual and Society requirement.

- Students should consider additional political science courses as electives to deepen their understanding of the field.
- Courses taken to fulfill the major may not be used to fulfill requirements for the minors in Aviation, Political Science, Pre-Law Studies in Political Science, Public Administration or Labor Studies in Political Science.
- Students should plan to take one Upper Level Writing Intensive class in Political Science. The Political Science program will offer at least one Upper Level Writing Intensive class in Political Science each semester.

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.

Requirement for the Political Science Minor		15
Required Courses		6
POL103	Politics and Government in the United States*	3
POL202	Comparative Politics	3
Choose one from the following:		3
POL241	International Politics	3
POL285	Urban Government in the United States	3
Choose one 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
Choose one from the following:		3
POL340	American Capitalism: Political and Social Aspects	3
POL367	Contemporary Political Theory	3

*Students are required to complete Political Science 103 in partial fulfillment of Pathways General Education Requirements as a prerequisite to these courses.

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.

Requirements for the Political Science/Cross-Cultural Studies For Psychology Minor			15
Required Courses*			
ANTH442	Culture and Personality		3
POL214	Racial and Ethnic Politics		3
PSY332	Social Psychology		3
PSY333	Black Psychology		3
PSY236	Psychology of Women		3

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

*Students are required to complete POL 103 in partial fulfillment of Pathways General Education Requirements, as a prerequisite to the Political Science courses in this minor.

Pre-Law Studies within Political Science (Minor)

Requirements for the Pre-Law Studies within Political Science			15 - 16
Required Courses*			10
POL226	U.S. Supreme Court		3
POL275	Introduction to Law		4
PHIL103	Introduction to Philosophy		3
Choose one of the following:			3
POL305	Selected Legal Topics		3
POL306	Selected Legal Topics		3
Choose one of the following:			2-3
PHIL121	Beginning Deductive Logic		3
PHIL356	Philosophy of Law		3
POL310	Methods of Legal Research		2
POL322	The Courts and Public Policy		3

*Students are required to complete POL 103 in partial fulfillment of Pathways General Education Requirements, as a prerequisite to the Political Science courses in this minor.

Public Administration (Minor)

Requirements for the Public Administration Minor			15
Required Courses			15
Choose 5 out of the 6 courses listed below:			
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

*Students are required to complete Political Science 103 in partial fulfillment of Pathways General Education Requirements as a prerequisite to these courses.

Psychology (BA)

HEGIS Number 2001

Psychology Program Mission Statement

The mission of the Psychology discipline is to encompass the knowledge, skills, and values that are necessary for students to acquire as undergraduates within the context of a liberal arts education while incorporating the broad theoretical and research bases of psychology using a variety of pedagogical models to prepare them for entrance into the workforce or acceptance into graduate or professional schools upon receipt of the baccalaureate degree. Students will reflect upon the importance of diversity and cross-cultural issues in the discipline.

Psychology Major Program Goals

Goal.1 Knowledge Base and Application: Students will demonstrate fundamental knowledge and comprehension of the major concepts, theoretical perspectives, historical trends, and empirical findings, to discuss how psychological principles apply to behavioral phenomena.

Goal.2 Scientific Inquiry and Critical Thinking: Students will demonstrate critical thinking, scientific reasoning, and an understanding of effective research methods. Students will be able to interpret scientific literature, and apply it to explain behavior and psychological phenomena.

Goal.3 Communication Skills: Students will learn to effectively communicate, demonstrating competence in their written work.

Goal.4 Ethical and social responsibility in a diverse world: Students will be able to recognize and apply the ethical standards of the discipline, and consider the impact of sociocultural issues on psychological theory, science and practice.

Psychology BA		46
I. Prerequisites		7
PSY102	Introduction to Psychology*	3
MATH111	Introduction to Statistics and Probability**,***	4
OR		

MATH115	Quantitative Methods for Decision Making**,***	4
OR		
MATH120	Pre-Calculus**,***	4
OR		
MATH121	Analytic Geometry and Calculus I**,***	4
II. Foundation Courses		12
PSY226	Statistical Methods in Psychology	3
PSY330	Foundations of Research Methods in Psychology	3
PSY362	Physiological Psychology	3
PSY430	Experimental Psychology	3
III: Area Studies		15
Choose five of the following courses:		
PSY215	Human Development	3
PSY232	Social Psychology	3
PSY234	Theories of Personality	3
PSY238	Abnormal Psychology	3
PSY253	Industrial and Organizational Psychology	3
PSY313	Sensation and Perception	3
PSY319	Human Cognitive Laboratory	3
PSY321	Psychology of Learning Laboratory	3
IV. Electives in Psychology****		12
Choose 12 additional credits in the PSY discipline.		
A minimum of 6 credits must be at the 300-level or above.		
Credit Totals		
Total Psychology program credits		46
Total Core Curriculum credits		36-42
Total free elective credits		32-38
Total credits for the BA in Psychology		120

Notes:

* PSY 102 may also be taken to fulfill the Flexible Core: Scientific World requirement.

** MATH 111 or MATH 115 or MATH 120 or MATH 121 may also be taken to fulfill the Required Core: Mathematical and Quantitative Reasoning requirement.

***Students not placed directly into one of the MATH courses may be required to take 4 to 8 credits of MATH prerequisites. These credits will subtract from "free electives" credit total.

****No more than one independent study course (PSY 490) can be counted toward the electives in psychology. Field work in Psychology (PSY 290, 291, 292, 293, 294, 295) cannot be counted toward the electives in psychology.

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.

Requirements for the Psychology Minor		15
Required Course		3
PSY102	Introductory Psychology	3
Four Additional Courses in Psychology		12
Note: At least two 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.

Sociology (BA)

HEGIS Number 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.

Upon successfully completing their B.A. sociology graduates can apply directly to graduate school in disciplines such as the social sciences, social work, education, law and health. Students with a baccalaureate can find employment opportunities in federal, state and local governmental agencies, educational and social services, private sector businesses and international organizations. The most common occupational choices for sociology majors nationally include, social services, counselors, psychologists, administrators, managers, teachers, librarians, marketing researchers, technology consultants and social science researchers.*

*American Sociological Association (2010) *Launching Majors into Satisfying Careers*, pp. 16 and 46.

Sociology Program Mission Statement

The Sociology Program's aim is to foster students' cultural and social awareness, intellectual and personal growth and respect for diverse communities. The Program is therefore designed to prepare students to read, think, argue and write critically about social issues, relationships

and institutions, recognize trends and patterns of social behavior and to analyze factors which shape human societies. Students also develop quantitative literacy skills and the ability to conduct research. These program objectives play a larger role, as they are also part of the York College mission statement. The sociology program objectives are accomplished by offering a broad based curriculum based on theory, concepts, critical thinking and analysis and research methods.

Sociology Major Program Goals

By offering a broad based curriculum on social theories and concepts, educating students to thinking critically and effectively to analyze social research, students will be:

- Prepared to critically read, write, speak and think about social issues, social change and relationships and institutions.
- Recognize trends and patterns of social behavior and be able to analyze factors which shape human societies.
- Develop quantitative literacy skills and the ability to interpret and conduct research.

Goal.1 Describe sociological theories, concepts and arguments.

Goal.2 Analyze social problems or social phenomena by applying (using) relevant theories, concepts and arguments.

Goal.3 Interpret scholarly/academic research

Goal.4 Construct logical (written) arguments using academic scholarship

Goal.5 Achieve Quantitative Literacy

Sociology BA		
Major Discipline Requirements		30
Required Courses		15
SOC101	Introductory Sociology	3
SOC201	Sociological Analysis*	3
SOC220	Social Research Methods I*	3
SOC312	Sociological Theory**	3
SOC321	Social Research Methods II	3
Sociology Electives		15
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.

Requirements for the Sociology Minor		15
Required Courses		6
SOC101	Introduction to Sociology	3
SOC201	Sociological Analysis	3
Any 200-level Sociology course		3
Any (2) 300-level Sociology courses		6

Department of Biology

**Academic Core Building, Room 4E03
718-262-2700**

Arsov, Ivica, Professor and Chair
Beaton, Laura, Associate Professor
Birk, Alexander, Assistant Professor
Bradbury, Louis, Assistant Professor
Casey, John, Doctoral Lecturer
Criss, Andrew, Doctoral Lecturer
Emtage, Lesley, Assistant Professor
Garcia Marin, Virginia, Assistant Professor
Hua, Shao-Ying, Associate Professor
Levinger, Louis, Professor
Lipkind, Dina, Assistant Professor
MacNeil, Margaret, Professor
McNeil, Gerard, Professor

Biology (BA)

HEGIS Number 0401

The Biology BA program provides in-depth knowledge of the science of life, from molecular biology to ecology. Students develop ability to critically analyze information, to make connections among different areas of biology and to communicate their ideas effectively to the scientific community. Student also acquire critical laboratory skills and learn how to design and perform experiments and to analyze experimental results to test a hypothesis. The Biology BA program is also designed to offer students a possibility to extensively explore their interests in liberal arts, such as fine arts, humanities or social sciences. Our department fosters a multi-cultural, experiential learning environment helping our students to develop into creative and critical individuals and provides excellent preparation for a variety of professional careers, including graduate programs in biological sciences, medical and dental schools, or teaching.

EFFECTIVE FALL 2021		
Biology BA		
Major Discipline Requirements		59-63
I. Required Foundation Courses		44
BIO111	First-Year Seminar in Biology	2
BIO201	Biological Principles I*	4
BIO202	Biological Principles II*	4
BIO301	Molecular Biology and Biotechnology	4
BIO307	Biostatistics	3
BIO486-489	Special Topics in Biology**+	3
CHEM108	Principles of Chemistry I*	3.5
CHEM109	Principles of Chemistry I Laboratory*	1.5
CHEM111	Principles of Chemistry II	3.5
CHEM112	Principles of Chemistry I Laboratory	1.5
CHEM230	Essentials of Organic Chemistry^	3

CHEM235	Laboratory in Organic Chemistry	2
MATH121	Analytic Geometry Calculus I*@	4
PHYS113	Physics Laboratory I	1
PHYS115	College Physics I***	4
II. Organismic & Environmental Biology		7.5-9
Two courses totaling 7.5 - 9 credits from the following:		
BIO308	Invertebrate Biology	4.5
BIO309	Biology of Chordates	4.5
BIO311	Animal Behavior	3
BIO325	Histology	4.5
BIO331	Plant Biology	4.5
BIO334	Comparative Physiology#	4.5
BIO403	Ecology	4.5
BIO410	Neurobiology	3
BIO411	Laboratory in Neurobiology	1.5
BIO477	Evolution	3
III. Cell and Molecular Biology		7.5-10
Choose 7.5 - 10 credits from the following:		
BIO320	Cell Biology	4.5
BIO412	Biochemistry	3
or		
CHEM412	Biochemistry	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 & Experimentation in Biotechnology	5
BTEC352	Bioinformatics	3
Credit Totals		
Total credits required for the Biology major		59-63
Total Core Curriculum credits		25-42
Total free elective credits		15-36
Total credits for the BA in Biology		120

*These courses can also be taken to satisfy Core Curriculum requirements.

**BIO 486-489 are the upper division WI courses for Biology major.

***PHYS 117 may be substituted for PHYS 115

+BTEC 489 may substitute for BIO 489.

^CHEM 231 and 232 may be substituted for CHEM 230 and 235

#BIO 234 and 235 may be substituted for BIO 334. One additional course in Group II will be required to satisfy this core area.

@Students that do not place directly into MATH 121 may need to take up to 8 credits of MATH prerequisites, MATH 120 (4 credits) and/or (MATH 102 (1 credit) or MATH 104 (3 credits) or MATH 115 (4 credits). Those courses subtract from the free-electives total.

NOTE: This major is not for students intending to apply to medical school or pursue post-graduate studies in Biology.

B.A. 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 Department.

Requirements for Graduation with Honors:

1. Successful completion of the Biology Major Department 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 Department.
3. Certification by the Honors Committee of the Biology Department.

Biology (BS)

HEGIS Number 0401

The Biology Department at York College strives to prepare our students as passionate and critical scientists and provide them with the opportunity to explore the science of life, within the tradition of the liberal arts. Our program will help them develop critical-thinking, problem-solving and technical skills necessary to succeed in a rapidly changing world as they pursue exciting careers in the biological sciences. We also believe that research is a cornerstone of active learning and our students will be provided with the opportunity to participate in various research activities throughout their studies. They will develop abilities to acquire and critically interpret relevant information from reliable sources, to formulate scientific arguments, to master important laboratory techniques and statistical methods used in modern research, and to engage and communicate with the scientific community. We also seek to develop a transformative, experiential learning environment which fosters multi-cultural and ethical values helping our students to become competent, competitive leaders who will have a great impact in the global scientific community. We offer two programs of study, Biology (B.S. and B.A) and Biotechnology (B.S). B.A. in Biology will allow students to get a Biology degree with a more extensive exposure to liberal arts than B.S. In addition, the Biology Department and Teacher Education Program together offer a Secondary Education Certification Program in Biology.

Biology BS		
Major Discipline Requirements		65-69
I. Required Foundation Courses		50
BIO201	Biological Principles I*	4
BIO202	Biological Principles II*	4
BIO301	Molecular Biology and Biotechnology	4
BIO307	Biostatistics	3

BIO486-489	Special Topics in Biology**+	3
CHEM108	Principles of Chemistry I*	3.5
CHEM109	Principles of Chemistry I Laboratory*	1.5
CHEM111	Principles of Chemistry II	3.5
CHEM112	Principles of Chemistry II Laboratory	1.5
CHEM231	Organic Chemistry I	3
CHEM232	Techniques in Organic Chemistry I	2
CHEM233	Organic Chemistry II	3
MATH121	Analytic Geometry Calculus I*@	4
PHYS113	Physics Laboratory I	1
PHYS114	Physics Laboratory II	1
PHYS115	College Physics I***	4
PHYS116	College Physics II***	4
II. Organismic & Environmental Biology		7.5-9
Choose 7.5 - 9 credits chosen from the following:		
BIO308	Invertebrate Biology	4.5
BIO309	Biology of the Chordates	4.5
BIO311	Animal Behavior	3
BIO325	Histology	4.5
BIO331	Plant Biology	4.5
BIO334	Comparative Physiology	4.5
BIO403	Ecology	4.5
BIO410	Neurobiology	3
BIO411	Laboratory in Neurobiology	1.5
BIO477	Evolution	3
III. Cell and Molecular Biology		7.5-10
Choose 7.5 - 10 credits from the following:		
BIO320	Cell Biology	4.5
BIO412	Biochemistry	3
or		
CHEM412	Biochemistry	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
BTEC352	Bioinformatics	3
Credit Totals		
Total credits required for the Biology major		65-69
Total Core Curriculum credits		25-42
Total free elective credits		9-30
Total credits for the BS in Biology		120

* These courses can also be taken to satisfy Core Curriculum requirements.

** BIO 486-489 are the upper division WI courses for Biology major.

*** PHYS 117 may be substituted for PHYS 115, and PHYS 118 may be substituted for PHYS 116

+BTEC 489 may be substituted for BIO 489.

^BTEC 480 may be substituted for BIO 480.

@ Students that do not place directly into MATH 121 may need to take up to 8 credits of MATH prerequisites, MATH 120 (4 credits) and/or (MATH 102 (1 credit) or MATH 104 (3 credits) or MATH 115 (4 credits). Those courses subtract from the free-electives total.

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 Department.

Requirements for Graduation with Honors:

1. Successful completion of the Biology Major Department 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 Department.
3. Certification by the Honors Committee of the Biology Department.

Biology (Minor)

There are two options for completing a Biology minor. Students who wish to complete a minor are encouraged to seek guidance from an advisor in the Biology department to select the option best suited to their academic program.

EFFECTIVE FALL 2021		
Requirements for the Biology Minor		16-18.5
Option I		
I. Required Courses		13
BIO201	Biological Principles I	4
BIO202	Biological Principles II	4
CHEM108	Principles of Chemistry I	3.5
CHEM109	Principles of Chemistry I Laboratory	1.5
II. Choose one of the following courses:		3-5
BIO301	Molecular Biology and Biotechnology*	4
BIO308	Invertebrate Biology	4.5
BIO309	Biology of the Chordates	4.5
BIO311	Animal Behavior	3
BIO320	Cell Biology	4.5
BIO325	Histology	4.5
BIO331	Plant Biology	4.5
BIO334	Comparative Physiology	4.5
BIO403	Ecology	4.5
BIO410	Neurobiology*	3
BIO412	Biochemistry*	3
or		
CHEM412	Biochemistry*	3
BIO444	Genetics*	4.5
BIO452	Developmental Biology*	4.5
BIO465	Microbiology*	4.5
BIO466	Immunology*	4.5

BIO480	Theory and Experimentation in Biotechnology*	5
BIO477	Evolution*	3
Option 2 (for Chemistry and Pharmaceutical Science majors)		
I. Choose any four of the following courses:		13-18.5
BIO301	Molecular Biology and Biotechnology*	4
BIO308	Invertebrate Biology	4.5
BIO309	Biology of Chordates	4.5
BIO312	Animal Behavior	3
BIO320	Cell Biology	4.5
BIO325	Histology	4.5
BIO331	Plant Biology	4.5
BIO334	Comparative Physiology	4.5
BIO403	Ecology	4.5
BIO410	Neurobiology*	3
BIO412	Biochemistry*	3
or		
CHEM412	Biochemistry*	3
BIO444	Genetics*	4.5
BIO452	Developmental Biology*	4.5
BIO465	Microbiology*	4.5
BIO466	Immunology*	4.5
BIO477	Evolution*	3
BIO480	Theory and Experimentation in Biotechnology*	5

Total credits to complete a Biology minor: 16-18.5

*Additional pre-requisite courses required.

Biotechnology (BS)

HEGIS Number 0499

Biotechnology at York College is an interdisciplinary program designed to provide students with strong academic training in sciences and math with an emphasis on applied research and variety of laboratory experiences. This program promotes the development of critical and creative thinking and fosters collaboration and ethical values. Students receive strong foundations in biotechnology, genetics, cell and molecular biology and biochemistry while acquiring essential laboratory skills and learning research design and methods. They are also offered a chance to participate in independent research projects in research laboratories, familiarize with research technology and collaborative work and become leaders who will have a great impact in the global scientific community. These activities provide students with meaningful experiences which should enhance their future careers in a variety of laboratory settings including Biomedical, Pharmaceutical, Chemical, Agricultural and Food Industries. This program offers an excellent preparation for advanced careers in research (M.S. and Ph.D.) in various fields and provides a strong background for entry into medical, dental or pharmacy schools.

Biotechnology BS		
Major Discipline Requirements		69.5 - 71.5
I. Required Foundation Courses		40
BIO201	Biological Principles I*	4
BIO202	Biological Principles II*	4
CHEM108	Principles of Chemistry I*	3.5
CHEM109	Principles of Chemistry I Laboratory*	1.5
CHEM111	Principles of Chemistry II	3.5
CHEM112	Principles of Chemistry II Laboratory	1.5
CHEM231	Organic Chemistry I	3
CHEM232	Techniques in Organic Chemistry I	2
CHEM233	Organic Chemistry II	3
MATH121	Analytic Geometry Calculus I*@	4
PHYS113	Physics Laboratory I	1
PHYS114	Physics Laboratory II	1
PHYS115	College Physics I	4
PHYS116	College Physics II	4
II. Biotechnology Requirements		22
BIO301	Molecular Biology and Biotechnology	4
BIO412	Biochemistry	3
or		
CHEM412	Biochemistry	3
BTEC302	Theory and Methods in Biotechnology and Biopharmaceuticals	4
BTEC352	Bioinformatics	3
BTEC480	Theory and Experimentation in Biotechnology**	5
BTEC489	Special Topics in Biotechnology**	3
III. Biotechnology Options		7.5-9.5
Choose 7.5- 9.5 Credits chosen from the following:		
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 and Molecular Design	3
Credit Totals		
Total credits required for the Biotechnology major		69.5-71.5
Total Core Curriculum credits		25-42

Total free elective credits	6.5-25.5
Total credits for the BS in Biotechnology	120

* These courses can also be taken to satisfy Core Curriculum requirements.

** BTEC 480 and BTEC 489 are the upper division WI courses in the major.

@ Students that do not place directly into MATH 121 may need to take up to 8 credits of MATH prerequisites, MATH 120 (4 credits) and/or (MATH 102 (1 credit) or MATH 104 (3 credits) or MATH 115 (4 credits)). Those courses subtract from the free-electives total. Students that elect to take MATH 104 or MATH 115 as pre-requisites for MATH 120 risk exceeding 120 credits in the completion of their major.

NOTE: Students interested in graduate studies are strongly advised to take BIO 320, CHEM 234, 321, 322 and MATH122 and 221. Research experience is also strongly recommended.

Biotechnology (Minor)

This minor is recommended only for students majoring in Biology, Chemistry, or Pharmaceutical Science.

Requirements for the Biotechnology Minor		15
Required Courses		15
BIO412	Biochemistry*,**	3
or		
CHEM412	Biochemistry*,**	3
BIO480	Theory and Experimentation in Biotechnology*,**	5
BTEC302	Theory and Methods in Biotechnology and Biopharmaceuticals*	4
BTEC489	Special Topics in Biotechnology*	3

Total credits to complete a Biotechnology minor: 15

* Chemistry majors not specializing in Biochemistry will need to complete additional Biology pre-requisite courses.

**Cannot be used to satisfy the requirements of both the minor in Biotechnology and the Area III requirement of the Biology major.

Department of Chemistry

**Academic Core Building, Room 3F01
718-262-2651**

Chakravarti, Deb, Professor

Chang, Emmanuel, Professor and Chair

Desamero, Ruel, Professor

Fearnley, Stephen, Associate Professor

Foster, Catherine, Doctoral Lecturer

Lee, Jong-III, Associate Professor

Musumeci, Daniele, Associate Professor

Profit, Adam, Associate Professor

Robie, Daniel, Assistant Professor

Biochemistry (Minor)

Requirements for the Biochemistry Minor		15
Required Biochemistry Courses		9
CHEM460	Biochemistry I	3
CHEM461	Biochemistry II	3
CHEM462	Experiments in Biological Chemistry	3
Choose 6 credits from the following courses:		6
CHEM233	Organic Chemistry II	3
CHEM321	Physical Chemistry: Thermodynamics	3
CHEM322	Physical Chemistry: Quantum Chemistry	3
CHEM323	Physical Chemistry: Drug Processes	3
CHEM330	Structure and Mechanism in Biochemistry	3
CHEM341	Instrumental Analysis I	3
CHEM342	Instrumental Analysis II	3
CHEM421	Physical-Inorganic Laboratory	3
CHEM450	Advanced Topics in Chemistry	3

Courses fulfilling requirements of the Biochemistry minor may not be used to fulfill requirements of the student's major or other minors. It is highly recommended that students considering a minor in Biochemistry be advised by the Department of Chemistry.

Chemistry (BA)

HEGIS Number 1905

The Chemistry Program has career perspectives for students:

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

Chemistry Program Mission Statement

The Chemistry major provides students with a sound foundation in the theoretical and experimental principles of chemistry. The course of study includes the areas of analytical, inorganic, organic, physical chemistry and biochemistry. The major prepares students to analyze chemical problems, apply modern theories of chemistry and conduct experiments to solve real-world problems through critical thinking. The graduates can apply for advanced studies 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 Program Goals

1. Students will learn modern concepts of chemical structures, properties, physical changes, chemical transformation, kinetics, thermodynamics, and quantum mechanics.
2. Students will solve chemical problems through critical reasoning and the scientific method.
3. Students will safely conduct scientific experiments using modern research techniques and computational tools.

Chemistry BA		
I. Required Courses*		54-55
CHEM108	Principles of Chemistry I	3.5
CHEM109	Principles of Chemistry I Laboratory	1.5
CHEM111	Principles of Chemistry II	3.5
CHEM112	Principles of Chemistry II Laboratory	1.5
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: Thermodynamics	3
CHEM322	Physical Chemistry: Quantum Chemistry	3
CHEM341	Instrumental Analysis I	3
CHEM342	Instrumental Analysis II	3
MATH122	Analytic Geometry and Calculus II	4
MATH221	Calculus III	4
PHYS117	University Physics I	4
PHYS113	Physics Laboratory I	1
PHYS118	University Physics II	4
PHYS114	Physics Laboratory II	1
II. Three credits chosen from the following:		
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.

B.A. 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 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.

2. Certification by the Faculty of the Chemistry Department.

Chemistry (BS)

HEGIS Number 1905

The Chemistry Program has career perspectives for students:

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

Chemistry Program Mission Statement

The Chemistry major provides students with a sound foundation in the theoretical and experimental principles of chemistry. The course of study includes the areas of analytical, inorganic, organic, physical chemistry and biochemistry. The major prepares students to analyze chemical problems, apply modern theories of chemistry and conduct experiments to solve real-world problems through critical thinking. The graduates can apply for advanced studies 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 Program Goals

1. Students will learn modern concepts of chemical structures, properties, physical changes, chemical transformation, kinetics, thermodynamics, and quantum mechanics.
2. Students will solve chemical problems through critical reasoning and the scientific method.
3. Students will safely conduct scientific experiments using modern research techniques and computational tools.

Chemistry BS		
Required Courses		53
CHEM108	Principles of Chemistry I	3.5
CHEM109	Principles of Chemistry I Laboratory	1.5
CHEM111	Principles of Chemistry II	3.5

CHEM112	Principles of Chemistry II Laboratory	1.5
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: Thermodynamics	3
CHEM322	Physical Chemistry: Quantum Chemistry	3
CHEM341	Instrumental Analysis I	3
CHEM342	Instrumental Analysis II	3
MATH121	Analytic Geometry and Calculus I	4
MATH122	Analytic Geometry and Calculus II	4
PHYS117	University Physics I	4
PHYS113	Physics Laboratory I	1
PHYS118	University Physics II	4
PHYS114	Physics Laboratory II	1
Choose Track #1 Chemistry or Track #2 Biochemistry		
Track #1 Chemistry		16
CHEM330	Structure and Mechanism in Biochemistry	3
CHEM421	Physical-Inorganic Laboratory	3
MATH221	Analytic Geometry and Calculus III	4
Choose two courses from among the following under advisement of the department (laboratory course*):		
CHEM323	Physical Chemistry: Drug Processes	3
CHEM339	Heterocyclic Chemistry and Drug Chemistry	3
CHEM360	Medicinal Chemistry	3
CHEM450	Advanced Topics in Chemistry	3
CHEM460	Biochemistry I	3
CHEM462	Experiments in Biological Chemistry*	3
CHEM490	Independent Study*	3
CHEM491	Independent Study*	3
PHS301	Pharmaceutics	3
Track #2 Biochemistry		27-29
BIO201	Biological Principles I	4
BIO202	Biological Principles II	4
BIO301	Molecular Biology and Biotechnology	4
CHEM460	Biochemistry I	3
CHEM461	Biochemistry II	3
CHEM462	Experiments in Biological Chemistry	3
Choose 6-8 credits from among the following under advisement of the department (laboratory course*):		
BIO320	Cell Biology	4.5
BIO444	Genetics	4.5
CHEM323	Physical Chemistry: Drug Processes	3
CHEM330	Structure and Mechanism in Biochemistry	3
CHEM339	Heterocyclic Chemistry and Drug Chemistry	3
CHEM360	Medicinal Chemistry	3
CHEM421	Physical-Inorganic Laboratory*	3
CHEM450	Advanced Topics in Chemistry	3
CHEM490	Independent Study*	3

CHEM491	Independent Study*	3
MATH102	Intermediate Algebra	1
or		
MATH104	College Algebra	3
or		
MATH115	Quantitative Methods for Decision Making	4
MATH120	Pre-Calculus	4
PHS301	Pharmaceutics	3
PHS401	Pharmacology	3
Credit Totals - Track 1		
Total Chemistry major program credits		69
Total Core Curriculum credits		30-42
Total free elective credits		9-21
Total credits for the BS in Chemistry		120
Credit Totals - Track 2		
Total Chemistry program credits		80-82
Total Core Curriculum credits		30-42
Total free elective credits		0-10
Total credits for the BS in Chemistry		120-124

Notes:

1. CHEM 108, CHEM 109, PHYS 114, and PHYS 118 fulfill the Pathways requirements in Scientific World.
2. MATH 121 fulfills the Pathways requirements in Mathematics and Quantitative Reasoning.
3. Students that do not place directly into MATH 121 may need to take up to 8 credits of MATH prerequisites, MATH 120 (4 credits) and/or MATH 102 (1 credit) or MATH 104 (3 credits) or MATH 115 (4 credits)
4. PHYS 113, and PHYS 117 fulfill the Pathways requirements in Life and Physical Sciences.
5. MATH 102, MATH 104, and MATH 115 are not open to students placed into or with credits in MATH 120 or MATH 121.
6. MATH 120 is not open to students placed into or with credits in MATH 121.

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 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.
2. Certification by the Faculty of the Chemistry Department.

Chemistry (Minor)

Requirements for the Chemistry Minor	15-16
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Choose 15-16 credits from the following:		
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: Thermodynamics	3
CHEM322	Physical Chemistry: Quantum Chemistry	3
CHEM323	Physical Chemistry: Drug Processes	3
CHEM330	Structure and Mechanism in Biochemistry	3
CHEM341	Instrumental Analysis I	3
CHEM342	Instrumental Analysis II	3
CHEM421	Physical-Inorganic Laboratory	3
CHEM450	Advanced Topics in Chemistry	3
CHEM460	Biochemistry I	3
MATH122	Analytic Geometry and Calculus II	4

Courses fulfilling requirements of the Chemistry minor may not be used to fulfill requirements of the student's major or other minors. It is highly recommended for students considering a minor in Chemistry be advised by the Department.

Pharmaceutical Science (BS)

HEGIS Number 1211

The Pharmaceutical Science (BS) Program has career perspectives for students:

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 Program Mission Statement

The Pharmaceutical Sciences major provides students with the fundamental scientific and technical skills required to work in pharmaceutical and biotechnological industries or for post-graduate studies in pharmacy and related advanced professional trainings. In addition to the core competencies in organic, physical and analytical chemistry, biochemistry and instrumentation (common to the Chemistry major), the Pharmaceutical science major

acquires specific competences and fundamental knowledge in pharmaceuticals, pharmaceutical manufacturing, pharmacology and regulatory affairs over the course of their four-year plan.

Pharmaceutical Science Major Program Goals

1. Students will acquire a solid foundation in general, organic, physical, medicinal and experimental chemistry.
2. Students will obtain basic knowledge of the manufacturing processes and regulations involved in the preparation and marketing of pharmaceutical products.
3. Students will acquire fundamental knowledge of pharmacokinetics principles and basic understanding of the mechanisms of action of the major classes of therapeutic drugs.

Pharmaceutical Science BS		
Core Curriculum Courses		
Note: This program has received a waiver to specify courses students must take in the following areas of the Core Curriculum. If students take different courses in these areas, they will fulfill the Core requirements, but it may not be possible to finish the degree program within 120 credits.		
Mathematical and Quantitative Reasoning		
MATH121	Analytic Geometry and Calculus I	4
Life and Physical Sciences		
PHYS113	Physics I Laboratory	1
PHYS117	University Physics I	4
Scientific World		
CHEM108	Principles of Chemistry I	3.5
CHEM109	Principles of Chemistry I Laboratory	1.5
PHYS114	University Physics II Laboratory	1
PHYS118	University Physics II	4
Required Courses		77
BIO201	Biological Principles I	4
BIO202	Biological Principles II	4
BIO301	Molecular Biology and Biotechnology	4
CHEM108	Principles of Chemistry I	3.5
CHEM109	Principles of Chemistry I Laboratory	1.5
CHEM111	Principles of Chemistry II	3.5
CHEM112	Principles of Chemistry II Laboratory	1.5
CHEM231	Organic Chemistry I	3
CHEM232	Techniques of Organic Chemistry I	2
CHEM233	Organic Chemistry II	3
CHEM234	Techniques of Organic Chemistry II	2
CHEM321	Physical Chemistry: Thermodynamics	3
CHEM323	Physical Chemistry: Drug Processes	3
CHEM341	Instrumental Methods of Analysis I	3
CHEM342	Instrumental Methods of Analysis II	3
or		
CHEM462	Experiments in Biological Chemistry	3
CHEM460	Biochemistry I	3
MATH121	Analytic Geometry and Calculus I	4
MATH122	Analytic Geometry and Calculus II	4

PHS300	Fundamentals of Pharmaceutical Sciences	3
PHS301	Pharmaceutics	3
PHS350	Pharmaceutical Manufacturing and Applicable Regulations	3
PHS401	Pharmacology	3
PHYS113	Physics I Laboratory	1
PHYS117	University Physics I	4
PHYS114	University Physics II Laboratory	1
PHYS118	University Physics II	4
Program Elective Courses		9-12.5
Choose 9-12.5 credits from among the following under advisement of the department:		
BIO234	Anatomy and Physiology I	4
BIO235	Anatomy and Physiology II	4
BIO307	Biostatistics	3
BIO465	Microbiology	4.5
CHEM310	Inorganic Chemistry	3
CHEM322	Physical Chemistry: Quantum Chemistry	3
CHEM330	Structure and Mechanism in Biochemistry	3
CHEM360	Medicinal Chemistry	3
CHEM421	Physical-Inorganic Laboratory	3
CHEM450	Advanced Topics in Chemistry	3
CHEM461	Biochemistry II	3
MATH102	Intermediate Algebra	1
or		
MATH104	College Algebra	3
or		
MATH115	Quantitative Methods for Decision Making	4
MATH120	Pre-Calculus	4
PHS360	Regulation of Pharmaceuticals	3
PHS480	Independent Study	3
or		
PHS490	Internships in Pharmaceutical Science	3
PHS481	Independent Study	3
PHS491	Internships in Pharmaceutical Science II	3
Credit Totals		
Total Pharmaceutical Science program credits		86-89.5
Total Core Curriculum credits		30-42
Total free elective credits		0-4
Total credits for the BS in Pharmaceutical Science		120-131.5

NOTES:

1. Students that do not place directly into MATH 121 may need to take up to 8 credits of MATH prerequisites, MATH 120 (4 credits) and/or MATH 102 (1 credit) or MATH 104 (3 credits) or MATH 115 (4 credits)
2. The following electives are recommended for students intending to pursue a Doctorate in Pharmacy: BIO 234, BIO 235, BIO 465, PHS 490.

3. Students intending to focus on pharmaceutical research and development should choose some of the following electives: CHEM 310, CHEM 360, CHEM 322, CHEM 330, CHEM 421, CHEM 450, CHEM 461, PHS 480, PHS 481.
4. The following electives are recommended for students intending to focus on pharmaceutical regulation: BIO 307, BIO 465, PHS 360, PHS 490, PHS 491.
5. Credits for MATH 102, MATH 104, and MATH 115 will not be counted toward major electives for students placed into MATH 120 or MATH 121.
6. Credits for MATH 120 will not be counted toward major electives for students placed into MATH 121.

B.S. with Honors in Pharmaceutical Sciences

Eligibility: A 300-level Pharmaceutical Science course, a 3.0 average in all major requirements courses and an Approval by the Faculty of the Chemistry Department.

Requirements for Graduation with Honors:

1. Successful completion of 6 credits of 480-level courses in the Pharmaceutical Science discipline consisting of independent research (not internship) under the supervision of a faculty member and successful presentation of a thesis to the faculty members of the Chemistry Department.
2. Certification by the Faculty of the Chemistry Department.

Department of Earth and Physical Sciences

Academic Core Building, Room 2F09
718-262-2654

Dhar, Ratan, Associate Professor

Paglione, Timothy, Professor and Chair

Popp, James, Associate Professor

Roberts-Semple, Dawn, Assistant Professor

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 general education and Pathways requirements. Such courses include: Astronomy 101, Astronomy 102, and Astronomy 141. Advanced level courses that make use of the York College Observatory, such as Astronomy 301, are also available. Several upper level courses are cross-listed and/or satisfy physics major and minor elective credit (Astro 491, 492, 493, 495, 496).

Requirements for Astronomy Minor		15
Required Course		4
ASTR301	Observational Astronomy	4
Choose 11 credits from the following:		11
ASTR201	The Solar System	4
ASTR202	Stars and the Milky Way	4
ASTR203	Introduction to Cosmology	4
ASTR204	Methods of Scientific Research	3
ASTR491	Astrophysics I: Planetary Astronomy	3
ASTR492	Astrophysics II: Stellar Astronomy	3
ASTR493	Astrophysics III: Extragalactic Astronomy	3
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

Environmental Health Science (BS)

HEGIS Number 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

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

Environmental Health Science BS		
Major Discipline Requirements		62
I. Required Foundation Courses		15
MATH121	Analytic Geometry and Calculus I	4
PHYS113	Physics Laboratory I	1
PHYS115	College Physics I	4
or		
PHYS117	University Physics I	4
CHEM237	Toxicology	3
BIO265	Clinical Microbiology	3
II. Required Environmental Health Science Major Courses		32
EHS140	Introduction to Environmental Sciences	3
EHS211	Principles of Environmental Health Science	2
EHS212	Principles of Environmental Health Sciences in Laboratory	2
EHS340	Pollution Control Technology	3
EHS351	Fundamentals of Air Pollution	3
EHS420	Water Quality Analysis and Management	4
EHS424	Food Sanitation	3
EHS426	Solid Waste Management	3
EHS427	Industrial Hygiene	3
EHS428	Water Pollution Biology	3
EHS429	Environmental Management	3
III. Independent Study and Internship		6

Choose 6 credits from the following:		
EHS430	Field Study in Environmental Health Science	3
EHS498	Independent Study	3
EHS499	Independent Study	3
IV. Environmental Health Science Electives		9
Choose 9 credits from the following:		
EHS343	Environmental Physiology	3
EHS425	Disease Vector Control	3
EHS431	Contaminant Hydrology	4.5
EHS432	Application of GIS in Environmental Health Science	4
EHS433	Environmental Health and Safety Regulations	3
BIO307	Biostatistics	3
HPGC201	Principles of Epidemiology	3
CHEM241	Instrumental Methods of Analysis	3
GEOL349	Assessment of Environmental Impact	1

NOTE: Environmental Health Science majors must take Chemistry 108, 109, 111,112, Biology 201, 202.

NOTE: MATH 119/120 are prerequisites to MATH 121; CHEM 230 is a prerequisite to CHEM 237.

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)

Requirements for the Environmental Science Minor		15-17.5
Required Courses		7
EHS140	Introduction of Environmental Science	3
EHS211	Principles of Environmental Health Science	2
EHS212	Principles of Environmental Health Science Lab	2
Choose one:		3
EHS110	Science, Technology and Environment	3
or		
GEOL115	Energy, Resources and the Environment	3

Choose one:		3
EHS351	Fundamentals of Air Pollution	3
or		
GEOL282	Weather and Climate	3
One course to be chosen from the following:		2-4.5
EHS343	Environmental Physiology	3
EHS426	Solid Waste Management	3
EHS429	Environmental Management	3
EHS431	Contaminant Hydrology	4.5
EHS432	Application of GIS in Environmental Health Science	4
EHS433	Environmental Health and Safety Regulations	3
EHS498	Independent Research	3
GEOL341	Ground Water Hydrology	2
GEOL496	Independent Research	3

Geology (BS)

HEGIS Number 1914

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		
Major Discipline Requirements		53.5-55.5
Required Foundation Courses		33.5
GEOL140	Our Earth**	3
CHEM111	Principles of Chemistry II	3.5
CHEM112	Principles of Chemistry II Laboratory	1.5
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
Geology Electives		8
Choose 8 credits from the following electives:		
GEOL282	Weather and Climate	3
GEOL308	Geomorphology	3
GEOL340	Remote Sensing and Air Photo Interpretation	2
GEOL341	Ground Water Hydrology	2
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
EHS140	Introduction to Environmental Sciences	3
EHS340	Pollution Control Technology	3
EHS420	Water Quality Analysis and Management	4
EHS426	Solid Waste Management	3
EHS429	Environmental Management	3
EHS431	Contaminant Hydrology	4.5
EHS432	Application of GIS in Environmental Health Science	4
Choose eight to ten credits consisting of two of the following lecture groups:		8 - 10
Group A:		
BIO201	Biological Principles I	4
BIO202	Biological Principles II	4
Group B:		
PHYS113	Physics I Laboratory*	1
PHYS117	University Physics I	4
PHYS114	Physics II Laboratory*	1
PHYS118	University Physics II	4
Choose at least four credits from the following courses:		4
MATH111	Introduction to Statistics and Probability	4
MATH122	Analytic Geometry and Calculus II	4
MATH172	Introduction to Computing	4
MATH121	Analytic Geometry and Calculus I	4

Geology majors should take Chemistry 108, 109 and Mathematics 121 (or approved equivalent) as part of their general education requirement.

*Geology majors may use Physics 151 and Physics 152 instead of Physics 113, 114, 117 and 118 to satisfy the Physics Track requirement.

**Geology 110 and 207 may be substituted for Geology 140.

***Geology 213 and 305 may be substituted for Geology 217.

All Geology majors must take CHEM 108, CHEM 109 and MATH 121 to fulfill General Education Requirements. Transfer students majoring in Geology must complete these courses even if they have earned an Associate degree where all general education/Pathways requirements have been waived. MATH 119/120 is a prerequisite to MATH 121.

B.S. with Honors in Geology

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

Requirements for Graduation with Honors:

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

Physics (BS)

HEGIS Number 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 DOE, DOD, NSF, NASA, and other Federal, State, and City agencies.

Students interested in majoring in physics or pre-engineering should take Univ. Physics I (Physics 117 and 113) and its corequisite Calculus I (Math 121) as early

as possible in their studies. Please come to the Dept. of Earth and Physical Sciences in Room 2F09 for proper advisement.

Physics BS		
Major Discipline Requirements*		57
Required Courses		51
PHYS117	University Physics I	4
PHYS113	Physics Laboratory I	1
PHYS118	University Physics II	4
PHYS114	Physics Laboratory II	1
PHYS231	Oscillations and Waves	3
PHYS241	Modern Physics	3
PHYS312	Classical Mechanics I	3
PHYS321	Electricity and Magnetism I	3
PHYS351	Statistical Mechanics	3
PHYS383	Modern Physics Laboratory	3
PHYS441	Quantum Mechanics and Atomic Physics	3
CHEM111	Principles of Chemistry II	3.5
CHEM112	Principles of Chemistry II Laboratory	1.5
MATH122	Analytical Geometry and Calculus II	4
MATH221	Analytical Geometry and Calculus III	4
MATH223	Differential Equations and Dynamical Systems	3
MATH333	Linear Algebra	4
Electives		6
Two courses at 400-level or higher in PHYS or ASTR		

*All physics majors take MATH 121, CHEM 108 and CHEM 109 to fulfill General Education requirements. MATH 119 and MATH 120 are prerequisites to MATH 121.

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.

Physics (Minor)

Requirements for the Physics Minor			15
Required Courses			9
PHYS231	Oscillations and Waves		3
PHYS241	Modern Physics		3
PHYS383	Modern Physics Laboratory		3
Six additional credits from the following*:			6
PHYS312	Classical Mechanics I		3
PHYS321	Electricity & Magnetism I		3
PHYS351	Statistical Mechanics		3
PHYS410	Methods of Theoretical Physics		3
PHYS412	Classical Mechanics II		3
PHYS422	Electricity and Magnetism II		3
PHYS431	Modern Optics		3
PHYS441	Quantum Mechanics and Atomic Physics		3
PHYS442	Nuclear and Particle Physics		3
PHYS455	Medical Physics Theory and Practice		3
PHYS456	Clinical Internship in Medical Physics		3
PHYS461	Solid State Physics		3
PHYS491	Astrophysics I: Planetary Astronomy		3
PHYS492	Astrophysics II: Stellar Astronomy		3
PHYS493	Astrophysics III: Extragalactic Astronomy		3

*Suitable courses from other disciplines may be substituted upon approval of the Department.

Pre-Engineering (Special Program)

York has developed a program of pre-engineering study, focusing on fundamental coursework in mathematics, physics, and chemistry to prepare students to smoothly transfer from York to engineering departments at other institutions, including the Grove School of Engineering at City College, the SUNY system, and private engineering colleges. There are many disciplines of engineering education at the Baccalaureate level, including for instance biomedical, chemical, civil, computer, electrical, environmental, and mechanical. Entering students may not be sure which area of engineering is most appealing to them. 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 a proper sequence of courses for all engineering specialties. Our experience has been that students who apply themselves diligently to these courses will succeed in later engineering courses. Students desiring to transfer from York to an engineering program elsewhere should familiarize themselves with the transfer and curricular requirements of the other college as early as possible, and discuss those requirements with their pre-engineering advisor.

Pre-Engineering		
Suggested Two-Year Program Sequence		
Fall		
ENG125	Composition I: Introduction to College Writing+	3

MATH121	Analytic Geometry and Calculus I**	4
PHYS113	Physics I Laboratory*	1
PHYS117	University Physics I*	4
U.S. Experience in its Diversity		3
Spring		
ENG126	Composition II: Writing About Literature+	3
MATH122	Analytic Geometry and Calculus II	4
PHYS114	University Physics II Laboratory*	1
PHYS118	University Physics II*	4
World Culture and Global Issues		3
Fall		
CHEM108	Principles of Chemistry I	3.5
CHEM109	Principles of Chemistry I Laboratory	1.5
MATH221	Analytic Geometry and Calculus III	4
Creative Expression+		3
Elective Course***		3
Spring		
MATH223	Differential Equations and Dynamical Systems	3
or		
MATH333	Linear Algebra	4
CS172	Computer Science I	4
Individual and Society+		3
Writing Intensive Course++		3

*PHYS 117+113 and PHYS 118+114 satisfy the Life and Physical Sciences and Scientific World areas of Pathways, respectively.

**MATH 121 requires MATH 119+120 or placement by the Math department after testing. MATH 121 satisfies the Math and Quantitative Reasoning area of Pathways.

***Optional courses and Electives should be chosen from available courses in Physics, Geology, Mathematics, Chemistry, or Biology in consultation with the Pre-Engineering Advisor so as to satisfy requirements of the desired engineering program at the transfer College (e.g., PHYS 241, 211; GEOL 140; BIO202).

+The noted Pathways area courses are not required to be taken in the order shown here. ENG 125 and ENG 126 together satisfy the English Composition area of Pathways.

++Any writing intensive course, in addition to one taken in an upper level major course (e.g., PHYS 383), satisfies this requirement.

Department of English

**Academic Core Building, Room 2A16
718-262-2470**

Bisla, Sundeep, Associate Professor
Cao, Linglan, Doctoral Lecturer
Corcoran, Matthew, Lecturer
Dinsman, Melissa, Assistant Professor
DiToro, Douglas, Lecturer
Garley, Matthew, Assistant Professor
Grasso, Linda, Professor
Hall, Jonathan, Professor and Chair
Haller, Cynthia, Professor
Hughes, William, Assistant Professor
Inayatulla, Shereen, Associate Professor
Josephs, Kelly, Professor
Kirkham, Phebe, Lecturer
Lewis, Glenn, Professor
McGee, Daniel, Associate Professor
Milanes, Patricia, Assistant Professor
Papa, James, Professor
Robinson, Heather, Professor
Rooney, Theresa, Associate Professor
Rowe, Debbie, Doctoral Lecturer
Silva, Andrea, Assistant Professor

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.

Requirements for the English Minor		15
Required Courses		6
ENG202	Introduction to Literary Studies	3
ENG262	Introduction to Language, Rhetoric and Writing	3
Elective Courses		9

Three additional ENG courses, at least one of which should be at the 300 level or above, exclusive of ENG 125, ENG 126 and ENG 200.

Creative Writing (Minor)

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

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

Digital Studies (Minor)

Requirements for the Digital Studies Minor		
I. Foundations in Digital Studies		3
ENG295	Technologies of Reading	3
II. Applying Digital Studies		2-3
Choose one of the following:		
BUS286	Digital Technologies in Organizations ¹	3
CT101	Digital Storytelling ¹	3
CT201	Foundations in Communication Technology ¹	3
ENG384	Writing for Electronic Media	3
EDUC230	Teaching with Multimedia Technology ^{1,2}	2
JOUR285	Basics of Online Journalism	3
III. Theory and Analysis in Digital Studies		6
Choose two of the following:		
BLST323	Mass Media, The Internet, and Black Communities ³	3
BUS287	Communities, Social Network, and Information ^{1,4}	3
CT390	Online Communities ^{1,5}	3
ENG297	Language, Technology, and Society	3
ENG377	Literature, Media, and the Digital Humanities ⁶	3
HUM235	The Digital Revolution	3
MUS278	The Art and Sound of Video Games ⁷	3
FA278	The Art and Sound of Video Games ⁷	3

Total credits required for Digital Studies Minor 11-12

Notes:

1. These courses do not satisfy Liberal Arts requirements. Please ensure that in completing your degree program, you complete the required number of Liberal Arts courses.
2. This is a four hour, two credit course.
3. This course has a prerequisite: At least one course from: BLST 202, HIST 272, HIST 276.
4. This course has a prerequisite: BUS 286
5. This course has a prerequisite: CT 201
6. This course has a prerequisite: ENG 295
7. These courses are cross-listed with each other; students may only receive credit for one of these.

English (BA)

HEGIS Number 1501

Majoring in English provides students with well-honed reading, writing, and speaking skills, deep knowledge of the Humanities, and experiences in problem solving, all tremendously valuable in today's global job market. Through close reading and study, English majors explore a variety of classic and contemporary literature and learn to articulate ideas clearly and convincingly.

English majors study a wide variety of literature, read closely and write confidently, become acquainted with the history of multiple literary traditions, and have an opportunity to study such special areas within English studies as linguistics, composition and rhetoric, and creative and professional writing. All major courses must be planned and scheduled in consultation with your major advisor.

English BA		
Major Discipline Requirements		42
I. Required Foundation Courses		12
ENG200	Understanding Literature*+	3
ENG202	Introduction to Literary Studies	3
ENG262	Introduction to Writing, Rhetoric, and Language	3
WRIT304	Research and Writing for English Majors**	3
II. Pre-Twentieth Century Literature		6
One course from the following in British Literature^:		
ENG318	Shakespeare: The Major Works	3
ENG328	Medieval & Renaissance Literature	3
ENG333	Restoration & 18th Century Literature	3
ENG343	The Romantic Period in England	3
ENG344	Victorian Literature	3
One course from the following in American Literature:		
ENG350	American Voices and Visions I	3
ENG351	American Romanticism	3
ENG352	American Voices and Visions II	3
ENG353	Nineteenth Century American Literature	3
III. Methodology		3
ENG311	Critical Studies in English	3
IV. Emphasis (Choose A or B)		9
A. Writing, Rhetoric, and Language (3 courses from the following, chosen with advisor, no more than one course at the 200 level)		
ENG265	Advanced Composition	3
ENG270	Introduction to Grammar and Syntax	3
ENG279	Special Topics in Writing, Rhetoric and Language	3
ENG286	Introduction to Creative Writing***	3
ENG362	Rhetorical Theory and Criticism	3
ENG369	Critical Literacy Studies	3
ENG371	History of the English Language	3
ENG373	Writing for Business	3
ENG375	English Sociolinguistics	3
ENG379	Special Topics in Writing, Rhetoric, and Language	3
ENG384	Writing for Electronic Media	3
ENG386	Poetry Workshop	3
ENG387	Short Story Workshop	3

ENG388	Playwriting Workshop	3
ENG389	Creative Nonfiction Workshop	3
B. Literature		
a. One of the following:		
ENG209	Understanding Poetry	3
ENG211	Foundations of Western Literature	3
ENG240	Literary Traditions in the U.S.****	3
ENG318	Shakespeare: The Major Works	3
ENG356	Studies in a Literary Genre or Movement	3
ENG358	Major Authors	3
b. Two additional courses at the 300 level or higher, chosen with an advisor		
V. Electives		6
Any 2 ENG courses at the 200 level or higher		
VI. SEMINAR^^		3
One course from:		
ENG410	Seminar in English: Special Topics	3
ENG430	Seminar in Literature	3
ENG470	Seminar in Writing, Rhetoric, and Language	3
VII. Global Writing		3
All majors must take at least one course designated as covering non-American and non-British material.		
ENG272	World Englishes*	3
ENG390	Caribbean Literatures in English	3
ENG391	Topics in Global Literatures	3
ENG394	Writing of Diasporas	3
WLIT394	Writing of Diasporas	3
ENG396	Global Women Writers	3
WLIT396	Global Women Writers	3
VIII. B.A. with Honors in English (6 additional credits)		6
ENG492	Honors Research in English	3
ENG493	Honors Research in English	3
Credit Totals		
Total English Program Credits		42
Total Core Curriculum Credits		33-42
Total Free Elective Credits		36-45
Total credits required for the BA in English		120

Notes:

*ENG 200 or ENG 272 may also be taken to satisfy the Flexible Core: World Cultures and Global Issues requirement.

**WRIT 304 may also be taken to satisfy the College Option Core: Writing Intensive requirement.

***ENG 286 may also be taken to satisfy the Flexible Core: Creative Expression requirement.

****ENG 240 may also be taken to satisfy the Flexible Core: U.S. Experience in its Diversity requirement.

^No course may fulfill more than one requirement for the major.

^^Normally taken during Senior year. Seminar courses may also be taken to fulfill the College Option Core: Writing Intensive requirement. These courses require

departmental permission.

+ENG 200 does not satisfy the Global Writing requirement of the major.

English Education / Middle School Extension (BA) students should not rely on this course listing, but should see the specific requirements for that major.

Journalism (BA)

HEGIS Number 0602

Students majoring in Journalism receive a comprehensive grounding in strong traditional writing and reporting skills, as well as in interactive media delivery methods, ethics and legal issues, and local new coverage.

The **Journalism Major** offers concentrations in **News Writing and Reporting, Broadcast Journalism, and Book and 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 have at least one hands-on Fieldwork experience as part of their degree program.

Journalism BA		
Major Requirements		39
I. Required Foundation Courses		6
JOUR280	Introduction to Journalism	3
JOUR281	Introduction to Feature Writing	3
II. Additional Required Courses		18
ENG270	Introduction to Grammar and Syntax	3
POL103	Politics and Government in the United States	3
or		
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
*Students who major in Journalism and minor in Political Science must take both POL 103 and POL 285 to satisfy the requirements of both programs. All other Journalism majors may take either POL 103 or POL 285.		
III. Electives		12
In consultation with an advisor, choose a minimum of four courses from the following, with at least one course at the 300-level.**		
CT101	Digital Storytelling	3
CT240	Studio Television Production	3
ENG286	Introduction to Creative Writing	3
JOUR282	Introduction to Writing Broadcast News	3
JOUR284	Social Justice Journalism	3

JOUR321	Editorial Writing, Commentary and Criticism	3
JOUR322	Advanced Feature Writing	3
JOUR381	Investigative Journalism & In-Depth Reporting	3
JOUR382	Non-Fiction Book Writing	3
JOUR384	Journalism Literature	3
JOUR388	Digital Photojournalism	3
JOUR389	Advanced Reporting and Writing for Broadcast News	3
JOUR399	Special Topics in Journalism	3
IV. Capstone***		3
Journalism Majors must take one 3 credit fieldwork course after they have completed 27 credits in the major.		
JOUR481	Journalism Fieldwork I	3
Students may take JOUR 483 Journalism Fieldwork II as a second fieldwork elective.		

**Advisors may direct students to specific combinations of electives in Broadcast Journalism or News Writing and Reporting or Publishing, depending on students' career goals. Advisors may deem certain elective courses as acceptable for more than one study area. Special Topics in Journalism courses will be designated for different study areas in consultation with advisors.

***Senior Project: Seniors will present a cumulative portfolio for review upon completion of fieldwork. In addition, for students to qualify for Journalism Fieldwork they are required to have senior status and 27 credits towards the major.

Journalism (Minor)

The Journalism Minor is designed to encourage students who have an interest in media and journalism, but are majoring in other areas, to pursue these fields while at York. The Journalism minor offers course work in three concentrations: News Writing and Reporting, Broadcast Journalism, and Book and Magazine Publishing. Work on a York College publication is required.

Requirements for the Journalism Minor		15
Required Courses		6
JOUR280	Introduction to Journalism	3
JOUR281	Introduction to Feature Writing	3
Any 3 Journalism (JOUR) courses at the 200 or 300 level chosen by a student in consultation with an advisor from the Journalism Program.		9

All students proposing to minor in Journalism should apply in the English Department Office, where they will be assigned an advisor.

Writing Program (Special Program)

The Writing Program, housed in the English Department, administers English 125 and 126, the College's required writing courses, and offers Writing 301, 302, 303 and 304. It also oversees York's Writing Across the Curriculum program.

Writing 301, 302, 303, and 304 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 courses will satisfy graduation requirements. Students should consult with a major advisor to determine which writing course to take. WRIT 301/302/303/304 also satisfies part of the College Option requirement of the Pathways General Education curriculum.

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; Writing 304 is only for the English major. Some programs of study may require Writing 301, 302, 303, 304 for admission into the major, or as a

prerequisite for major courses, even if a student is exempt from some or all General Education requirements due to a prior degree.

All students entering the College between Fall 1996 and Spring 2013 (including transfer students) are required to complete Writing 301, 302, 303 or 304. Students who entered York before the Fall of 1996 and were readmitted to the College in Fall 1996 or later after an absence of three or more consecutive semesters must also take Writing 301, 302, 303 or 304 and before Fall 2013. Students who enter with a previous baccalaureate degree are exempt from this requirement.

WRIT301	(Liberal Arts) Research and Writing for the Major	3
WRIT302	(Liberal Arts) Research and Writing for the Sciences, Mathematics, and Technology	3
WRIT303	(Liberal Arts) Research and Writing for Professional Programs	3
WRIT304	(Liberal Arts) Research and Writing for the English Major	3

Department of History, Philosophy, and Anthropology

**Academic Core Building, Room 3D08
718-262-2635**

Benedito, Roberto, Assistant Professor

Githuku, Nicholas, Assistant Professor

Kirk, Timothy, Professor and Chair

Neale, Kay, Lecturer

Parmet, Robert, Professor

Ruttenberg, Howard, Professor

Anthropology (BA)

HEGIS Number 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		
Major Discipline Requirements		30
Required Courses		12
ANTH101	Introduction to Cultural Anthropology*	3
ANTH220	Social Research Methods I**	3
ANTH310	Techniques of Cross-Cultural Research	3
or		
ANTH321	Social Research Methods II***	3
or		
ANTH351	Qualitative Research Methods and Analysis****	3
ANTH415	Advanced Seminar in Anthropology*****	3
Elective Courses		18
9 credits in ANTH chosen in collaboration with a program advisor, 6 of which must be at the 200-level or above.		9
9 credits in ANTH, SOC, or BLST chosen in collaboration with a program advisor, 6 of which must be at the 200-level or above.		9
Credit Totals		
Total Anthropology program credits		30
Total Core Curriculum credits		36-42
Total free elective credits		48-54
Total credits for the BA in Anthropology		120

Notes:

*ANTH 101 may also be taken to fulfill the Flexible Core: World Cultures and Global Issues requirement.

**ANTH 220 is cross-listed with SOC 220 and POL 222. Any, but only one, of these three courses may fulfill this requirement.

***ANTH 321 is cross-listed with SOC 321 and POL 321. Any, but only one, of these three courses may fulfill this requirement.

****ANTH 351 is cross-listed with BLST 351, SOC 351, and POL 351. Any, but only one, of these four courses may fulfill this requirement.

*****ANTH 415 may also be taken toward fulfillment of the College Option Core: Writing Intensive requirement.

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.

Requirements for the Anthropology Minor		
Required Courses		3
ANTH101	Introduction to Cultural Anthropology	3
Four Additional Courses in Anthropology		12

Medical Anthropology (Minor)

Requirements for the Medical Anthropology Minor		
Required Courses		6
ANTH151	Medical Anthropology	3
SOC245	Medical Sociology	3
Choose 3 courses from the following:		9
ANTH201	Ethnopsychiatry	3
ANTH205	Anthropology of Sex	3
ANTH301	Alcoholism and Obesity Cross-Culturally	3
ANTH303	Food and Culture	3
ANTH442	Culture and Personality	3

Urban Anthropology (Minor)

Requirements for the Urban Anthropology Minor		
Required Courses		9
ANTH223	The Rise of Civilization	3
ANTH311	Urban Anthropology	3

SOC289	Urban Sociology	3
Choose two from the following:		6
BLST242	The Urbanization of Contemporary African America	3
HIST202	The Emergence of Urban America	3
SOC366	Sociology of Modernization and Development	3
ANTH490	Independent Field Study in Urbanization	3

Black Studies (BA)

HEGIS Number 2211

The BA Black Studies Program's Mission

The mission of the Black Studies Program is to provide an interdisciplinary intellectual arena in which students learn to critically examine, analyze, and interpret the African, African American, and Caribbean experiences. The Program offers a broad selection of courses addressing historical, cultural, sociological, political, economic, and psychological factors that affect the lives of African, African American, and Afro-Caribbean peoples. The curriculum stresses the skills necessary to think critically, write clearly, argue persuasively, and problem-solve effectively. Students are exposed to theory and research in a variety of subject matter and are encouraged to engage in active service and research beyond the classroom. The Annual Student Research Day, a recently created initiative, is a college-wide conference that gives outstanding undergraduate students the opportunity to present their own research to a forum of peers, family, faculty, and friends. Faculty in the Black Studies Program expect that our students will participate regularly in this event. In addition, faculty and students will be heavily involved in promoting participation in the CUNY Pipeline Program, encouraging students of color to attend graduate school.

Student learning objectives: Upon completing a Black Studies degree, graduates should:

1. Demonstrate an interdisciplinary understanding of the diversity of experiences within the African Diaspora
2. Understand the importance and distinction of various approaches to knowledge about Black peoples
3. Possess and apply skills necessary to think critically, write clearly, argue persuasively, and problem-solve effectively
4. Sharpen critical citizenship skills: effective agency, participation, and leadership in the intellectual and research domains of professional and community life
5. Be ready for leadership in the community and post-graduate study

Black Studies BA		30
Required Introductory Course		3
Choose one course from the following:		
BLST101	Introduction to Black Studies	3
BLST102	The Unforgiving Mirror: Race and Racism in Contemporary Society	3

BLST103	Black Women in the Atlantic World	3
BLST104	Introduction to Africa	3
Required Courses		12
HIST276	History of Africa from 1800 to Present	3
BLST202	Black Experience in the Caribbean	3
HIST272	African-American History	3
Choose one course from the following:		
BLST401	Seminar	3
BLST490	Directed Research	3
Black Studies Electives		15
Choose 15 Credits from the following courses:		
At least 6 credits MUST be at the 300-level or higher.		
ANTH241	Ethnology of Africa	3
BLST213	African American Religions and Religious Practice	3
BLST220	Western African Literature in English	3
BLST222	Caribbean Literature in Translation	3
BLST237	The Contemporary Legacy of Slavery in the U.S.	3
BLST241	The Urbanization of Contemporary Africa	3
BLST242	The Urbanization of Contemporary African America	3
BLST261	Folklore: The African in American	3
BLST262	Black American Culture	3
BLST285	Environmental Justice in North America	3
BLST286	Africa and the Columbian Exchange	3
BLST323	Mass Media, the Internet, and Black Communities	3
BLST325	Historiography in Black Studies	3
BLST331	The Civil Rights Movement in America	3
BLST342	Third-World Consciousness in Africa	3
BLST343	The Contemporary Black Experience in South Africa	3
BLST345	Black Revolutionary Thought	3
BLST348	Heritage, Culture and Memory*	3
BLST349	Race, Housing and Community*	3
BLST353	Boys to Men: From Black Macho to Black Male Feminist	3
BLST354	The Role of Black in the American Economy	3
BLST364	Social Movement in the African Diaspora (WI)	3
ENG298	Special Topics	3
ENG357	The Literature of the Harlem Renaissance	3
ENG392	African-American Literature	3
FA296	African Art	3
FA398	Afro-American Art	3
HIST274	The American Ethnic Experience	3
HIST275	African History until 1800	3
HIST279	History of Hip-Hop	3
HIST313	The Civil War	3
HIST374	Africa and the Atlantic Slave Trade	3
HIST375	Decolonization of West Africa	3
HIST376	West Africa Since Independence	3
MUS250	African-American Music (WI)	3
MUS253	History of Jazz (WI)	3
SOC366	Sociology of Modernization and Development	3
WLIT210	North African Literature in Translation	3

*Course is cross-listed with an Anthropology course of the same number.

Black Studies (Minor)

Requirements for the Black Studies Minor		15
Required Introductory Course		3
Choose one course from the following:		
BLST101	Introduction to Black Studies	3
BLST102	The Unforgiving Mirror: Race and Racism in Contemporary Society	3
BLST103	Black Women in the Atlantic World	3
BLST104	Introduction to Africa	3
Foundation Courses		6
Choose two courses from the following:		
BLST202	The Black Experience in the Caribbean	3
HIST272	African American History	3
HIST276	African History from 1800 until the Present	3
Black Studies Electives		6
Choose two courses from the following;		
ANTH241	Ethnology of Africa	3
BLST213	African American Religions and Religious Practice	3
BLST220	Western African Literature in English	3
BLST222	Caribbean Literature in Translation	3
BLST237	The Contemporary Legacy of Slavery in the U.S.	3
BLST241	The Urbanization of Contemporary Africa	3
BLST242	The Urbanization of Contemporary American America	3
BLST261	Folklore: The African in America	3
BLST262	Black American Culture	3
BLST285	Environmental Justice in North America	3
BLST286	Africa and the Columbian Exchange	3
BLST323	Mass Media, the Internet, and Black Communities	3
BLST325	Historiography in Black Studies	3
BLST331	The Civil Rights Movement in America	3
BLST342	Third-World Consciousness in Africa	3
BLST343	The Contemporary Black Experience in South Africa	3
BLST345	Black Revolutionary Thought	3
BLST348	Heritage, Culture and Memory*	3
BLST349	Race, Housing and Community*	3
BLST353	Boys to Men: From Macho to Black Male Feminist	3
BLST354	The Role of Black in American Economy	3
BLST364	Social Movement in the African Diaspora (WI)	3
ENG298	Special Topics	3
ENG357	The Literature of the Harlem Renaissance	3
ENG392	African American Literature	3
FA296	African Art	3
FA398	Afro-American Art	3
HIST274	The American Ethnic Experience	3
HIST275	African History until 1800	3

HIST279	History of Hip-Hop	3
HIST313	The Civil War	3
HIST374	Africa and the Atlantic Slave Trade	3
HIST375	Decolonization of West Africa	3
HIST376	West Africa Since Independence	3
MUS250	African-American Music (WI)	3
MUS253	History of Jazz (WI)	3
SOC366	Sociology of Modernization and Development	3
WLIT210	North African Literature	3

*Course is cross-listed with an Anthropology course of the same number.

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:

1. understand how their own cultures shape and influence their values, attitudes and behaviors,
2. gain an appreciation of the contributions of their own and other cultural groups to our global civilization, and
3. develop analytical skills and attitudes that will enable them to understand and to deal constructively with problems that arise from cultural diversity in the community and workplace.

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

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

History (BA)

HEGIS Number 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		
Major Discipline Requirements		36
United States History		
Choose two of the following courses:		6
HIST201	Beginnings of the American People	3
HIST202	The Emergency of Urban America	3
HIST204	Contemporary America	3
HIST205	History of Women in the United States	3
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
European History		
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
Non-Western History		
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
Choose an additional 18 History credits at the 200-level or above.		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.

Requirements for the History Minor		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 Number 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, in works of performative, creative, or expressive arts, and in philosophical reflections on the assumptions and methods of the arts and sciences. Requirements in history, social and behavioral science, literature, the arts and philosophy also provide a global perspective on what it means to become a liberally educated person.

Interdisciplinary Studies BA		
I. Art, Music Theatre, or Speech		3
	Any course at the 200-level or above in Art, Music, Theatre, or Speech	3
II. History		6
	200-level or above, at least 3 credits 300-level or above	
	One course in US or Western European History	3
	One course in African, Asian, Caribbean, Latin American, or Eastern European History	3
III. Literature		6
	200-level or above, but not ENG 200; at least 3 credits 300-level or above	
	British or American Literature (not English 200)	3
	Literature that is not British or American	3
IV. Mathematics		3-4
	100-level or above, but not MATH 102, 104, 119, 271, 272	3-4
V. Natural and Physical Sciences		3-4
	One course 100-level or above in Astronomy, Biology, Chemistry, Environmental Health Science, Geology, or Physics	3-4
VI. Philosophy		6
PHIL102	Beginning Informal Logic	3
or		
PHIL103	Introduction to Philosophy	3
or		
PHIL104	Introduction to Knowledge and Value	3
or		
PHIL121	Beginning Deductive Logic	3
	One additional Philosophy course 200-level or above, but not PHIL 202 or 231	3
VII. Social or Behavioral Sciences		6
	200-level or above; at least 3 credits 300-level or above	
	Two courses in any combination of Black Studies, Anthropology, Economics, Political Science, Psychology, or Sociology	6
VIII. Writing		3
WRIT301	Research and Writing for the Major	3
IX. Interdisciplinary Studies		3

IS400	Senior Seminar	3
Credit Totals		
Total Interdisciplinary Studies Program credits		39-41
Total Core Curriculum credits		36-42
Total free elective credits		37-45
Total credits for the BA in Interdisciplinary Studies		120

Notes:

- Courses taken to fulfill Required Core or Flexible Core curriculum requirements may not be used to fulfill Interdisciplinary Studies program requirements, with the exception of PHIL 102 or PHIL 103.
 - Courses taken to fulfill Interdisciplinary Studies program requirements may also be used to fulfill Teacher Education program requirements.
 - Interdisciplinary Studies majors planning to apply to a Teacher Education program should choose courses in careful collaboration with an advisor from the Teacher Education department.
1. PHIL 102 may also be taken to fulfill the Flexible Core: Scientific World requirement.
 2. PHIL 103 may also be taken to fulfill the Flexible Core: Individual and Society requirement.
 3. Students who have already completed WRIT 302, WRIT 303, or WRIT 304 may substitute that course for WRIT 301.
 4. IS 400 and WRIT 301 may also be taken to fulfill the College Option Core: Writing Intensive requirement.

Philosophy (BA)

HEGIS Number 1509

The philosophy program seeks first and foremost to show all students, as an essential element of the liberating objective of general education, the unexamined assumptions in all their studies, and to introduce them to the tradition of exploring and criticizing those assumptions. Philosophy courses explore basic ideas in natural sciences, behavioral and social sciences, the arts, and religion. In learning the methods of the philosophical tradition, students will develop their powers of logical thought and coherent expression, which will assist them in other studies, in the pursuit of careers, and in the exercise of the human rights of citizenship and of full participation in the arts and sciences of contemporary cultural life. Majors will learn to engage in sustained analyzes of a variety of issues, preparing them for graduate studies in philosophy, professional schools, etc.

Philosophy BA		
Major Discipline Requirements		33
Required Courses		18
PHIL102	Beginning Informal Logic	3
OR		
PHIL121	Beginning Deductive Logic	3
PHIL103	Introduction to Philosophy	3

OR		
PHIL104	Introduction to Knowledge and Value	3
WRIT301	Research and Writing for the Major	3
PHIL211	Ancient Philosophy	3
PHIL213	Modern Philosophy	3
PHIL341	Contemporary Philosophy (WI)	3
Electives		15
Please choose 5 additional PHIL courses at the 200-level or above.		
Credit Totals		
Total Philosophy Program credits		33
Total Core Curriculum credits		33-42
Total free elective credits		45-54
Total credits for the BA in Philosophy		120

Notes:

1. PHIL 102 may also be taken to fulfill the Flexible Core: Scientific World requirement.
2. PHIL 103 may also be taken to fulfill the Flexible Core: Individual and Society requirement.
3. Students who have already taken WRIT 302 or WRIT 303 may substitute that course for WRIT 301.
4. PHIL 341 and WRIT 301 may also be taken toward fulfillment of the College Option Core: Writing Intensive requirement.
5. At the discretion of the department, students may take up to 3 elective courses (9 credits) with philosophically rigorous content offered by other departments to satisfy program requirements. Such courses must be chosen in collaboration with a department advisor and pre-approved by the philosophy discipline coordinator.

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.

Requirements for the Philosophy Minor		15
Requirements		
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

Survey Research (Certificate Program)

The Survey Research certificate program (SRCP) provides students with a knowledge base and hands-on experience in survey design, research and analysis. This certificate program is intended for individuals who would like to explore careers in the survey and marketing research industry, in addition to any field or organization that requires quantitative/survey research skills. 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 SRCP is a subset of the B.A. major in Sociology. Students may use the SRCP courses to satisfy their Sociology major requirements, where relevant, as well as apply them for the Survey Research Certificate. Students who are interested in this program should contact the Department of Behavioral Sciences in room AC- 4D06, (718) 262-2680, and arrange to speak with a sociology professor.

Certificate Program for Survey Research		17
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 and Marketing Communications.

Department of Mathematics and Computer Science

**Academic Core Building, Room 2C07
718-262-2535**

Amenyo, John-Thones, Assistant Professor

Carta-Gerardino, Edoardo, Assistant Professor and Chair

Coen, Robert, Professor

Daher, Samira, Lecturer

DAlotto, Louis, Professor

Mawyer, Farley, Professor

Nath, Rishi, Professor

Pritchard, Freya, Professor

Sunmonu, Adefemi, Professor

Thompson, Virginia, Assistant Professor

Wang, Vivien, Associate Professor

Wojciechowski, Radoslaw, Professor

Wu, Tsu, Professor

Zhang, Danyang, Associate Professor

Computer Science (BS)

HEGIS Number 0701

Computer Science Program Mission Statement

Our mission is to provide students the opportunity to learn about both the applied and theoretical aspects of computer science in order that they be able to apply this knowledge to solve real world problems in an increasingly diverse, ever-changing, and technology-driven world. In particular, students majoring in Computer Science will learn basic and advanced programming; design and analysis of computer algorithms and computer hardware; the mathematical theory of languages and their application to the design of computer languages; management of large software projects; and how computer operating systems work. Students may choose to work individually or in collaboration with peers and guided by faculty on projects that strengthen their academic preparation and to showcase their work at the college and beyond. It is our goal that students' initial interest in computer science be nurtured and developed to its full potential so that upon graduation they may successfully undertake graduate work or enter the workforce as computer professionals in areas such as computer systems analysts, software developers, systems programmers, scientific/engineering applications programmers, or any in a list of ever-expanding technology-focused careers.

Computer Science Program Goals

- Prepare students to be able to demonstrate understanding and competency in the theoretical aspects of computer science, software engineering and digital technology.

- Prepare students to be able to demonstrate understanding and competency in the system aspects of computer science including computational thinking and problem-solving skills.
- Prepare students to be able to demonstrate understanding and competency in the practical applications of computers, computer technology and innovative digital technology.

Computer Science BS		
Major Discipline Requirements**		55-56
Required Courses		44
CS172	Computer Science I	4
CS291	Computer Science II	4
CS341	Algorithms and Data Structures*	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 and Calculus II	4
MATH210	Probability and Statistics I	4
MATH225	Discrete Mathematical Structures	4
Elective Courses		11-12
Choose three courses including at least two computer science courses:		
CS334	Computer Graphics	3
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	Theory of Numbers	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 Number 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.

Requirements for the Computer Science Minor		16
Required Courses		8
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 and Data Structures	4
CS381	Software Development	4
CS391	Object-Oriented Programming	4
CS451	Operating Systems	4

*CS 172 is a prerequisite and MATH 141, MATH 225 are pre/corequisites for CS 291.

Mathematics (BA)

HEGIS Number 1701

Mathematics Program Mission Statement

The goal of the department is to provide each mathematics major the opportunity to develop breadth and depth in theoretical and applied areas of mathematics, including computer and mathematics for teaching. Students will acquire abstract thinking, analytical and problem-solving skills which are applicable in nearly every area of life. The department aims to provide a supportive learning environment where students are given an opportunity to develop mathematically to their maximum potential. Students, with guidance from faculty, may participate in research opportunities in mathematics individually or in collaboration with their peers as well as in co-curricular activities such as seminar talks and conferences. After graduating from York College, the mathematics major may pursue graduate studies toward an advanced degree and/or work in his/her chosen career.

Mathematics Program Goals

- Students should be able to demonstrate an understanding of the core concepts of differential and integral calculus, differential equations, and linear algebra
- Students should be able to demonstrate the ability to think logically and construct logical arguments, and to apply mathematical proof techniques in a wide variety of mathematical areas, including algebra and analysis.
- Students should be able to demonstrate the ability to analyze and solve problems in applied mathematics, both through theoretical and applied techniques.
- Students should be able to demonstrate an understanding of the problems and techniques of classical and modern mathematics.

Mathematics B.A./B.S.

Required Prerequisites		5
MATH119	Computer Algebra System	1
MATH121	Analytic Geometry and Calculus I	4
or		
MATH184	Analytic Geometry and Calculus I	4
MATH 121 and MATH 184 satisfy the General Education Requirement.		
Major Discipline Requirements		33
MATH122	Analytic Geometry and Calculus II	4
MATH221	Analytic Geometry and Calculus III	4
MATH333	Linear Algebra	4
MATH336	Modern Algebra	4
One course from the following:		
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**		4
**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
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 the following:		
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 the following:		
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 and 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 the following:		
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 (WI)	3
Choose one of the following:		
MATH243	Combinatorial and Discrete Geometry	3
MATH244	Geometric Structures	3

*Note: Mathematics BA requires 90 Liberal Arts Credits and the Mathematics BS requires 60 Liberal Arts Credit to graduate.

Mathematics (BS)

HEGIS Number 1701

Mathematics Program Mission Statement

The goal of the department is to provide each mathematics major the opportunity to develop breadth and depth in theoretical and applied areas of mathematics, including computer and mathematics for teaching. Students will acquire abstract thinking, analytical and problem-solving skills which are applicable in nearly every area of life. The department aims to provide a supportive learning environment where students are given an opportunity to develop mathematically to their maximum

potential. Students, with guidance from faculty, may participate in research opportunities in mathematics individually or in collaboration with their peers as well as in co-curricular activities such as seminar talks and conferences. After graduating from York College, the mathematics major may pursue graduate studies toward an advanced degree and/or work in his/her chosen career.

Mathematics Program Goals

- Students should be able to demonstrate an understanding of the core concepts of differential and integral calculus, differential equations, and linear algebra
- Students should be able to demonstrate the ability to think logically and construct logical arguments, and to apply mathematical proof techniques in a wide variety of mathematical areas, including algebra and analysis.
- Students should be able to demonstrate the ability to analyze and solve problems in applied mathematics, both through theoretical and applied techniques.
- Students should be able to demonstrate an understanding of the problems and techniques of classical and modern mathematics.

Mathematics BS		
Required Prerequisites		5
MATH119	Computer Algebra System	1
MATH121	Analytic Geometry and Calculus I	4
or		
MATH184	Analytic Geometry and Calculus I	4
MATH 121 and MATH 184 satisfy the General Education Requirement.		
Major Discipline Requirements		33
MATH122	Analytic Geometry and Calculus II	4
MATH221	Analytic Geometry and Calculus III	4
MATH333	Linear Algebra	4
MATH336	Modern Algebra	4
One course from the following:		
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
Any additional 4 credits of Mathematics or CS Electives**		4
**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
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 the following:		
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 the following:		
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 and Data Structures	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 the following:		
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 (WI)	3
One course from 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.

Requirements for the Mathematics Minor		16
Required Courses		8
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

Note: MATH 122 has a prerequisite of MATH 121 or MATH 184 which may be used to satisfy the General Education Requirement.

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

Department of Performing and Fine Arts

**Academic Core Building, Room 1A12
718-262-2400**

Buxenbaum, Nina, Associate Professor

Gieseler, Carly, Associate Professor

Hajikano, Maki, Professor

Phelps, Daniel, Associate Professor

Sandoval De Leon, Carlos, Assistant Professor

Tung, Larry, Associate Professor

Vendryes, Margaret, Professor and Chair

Zlabinger, Thomas, Assistant Professor

Academic Computing (Special Program)

The Academic Computing program offers courses in computer literacy. The computer literacy courses are designed to serve the needs of all students at York College. Their objectives are to enable the students to understand the computer system and associated operating systems, to use word processing and graphics software to develop essays as well as research papers, and to develop an understanding of the basic terminology of computer technology, network, and operations, to navigate the World Wide Web, and to use multimedia presentations to enhance their academic endeavors. The Academic Computing program is also designed to enable students to learn to use spreadsheet software for modeling, budgeting, planning, and other "what if" projections, to use both spreadsheet and database software, to use both presentation and web design software and to understand the impact of the Internet on business, education, human services, public administration and life as a citizen.

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

Art History (BA)

HEGIS Number 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 105 and 106, 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		
Major Discipline Requirements		45
1. Introductory Course		6
FA105	Introduction to Fine Arts: Caves to Cathedrals**	3
FA106	Introduction to Fine Arts: Cathedrals to Contemporary**	3
2. Upper Level Art History Courses		21
Students take courses from the following 3 areas:		
Area A: Western Art to the 18th Century		6
Choose 6 credits from the following:		
FA290	Ancient Art	3
FA291	Art of Medieval Europe	3
FA292	Early Renaissance Art	3
FA294	Northern Renaissance Art	3
FA390	High Renaissance and Late 16th century art	3
FA391	Baroque and Rococo Art	3
Area B: 19th Century - Contemporary		9
Choose 9 credits from the following:		
FA278	Art and Sound of Video Games	3
FA297	History of 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
FA392	Nineteenth-Century Art	3
FA393	American Art to 1913	3
FA394	Twentieth-Century Art in the United States	3
FA396	Twentieth Century Art	3
FA397	Contemporary Art	3
Area C: Non-Western Art		6
Choose 6 credits from the following:		
FA296	African Art	3
FA287	Islamic Art and Architecture	3
FA288	Art of Asia and the Pacific	3
FA289	Caribbean Art	3
FA395	Latin-American Art	3
FA398	Afro-American Art	3
3. Research in Art History		3
FA499	Research in Art History	3
4. Studio Art Courses: 9 Credits in Fine Arts courses designated as studio classes:		9
Students choose 9 credits in fine arts courses designated as studio classes:		
FA *101, *102, 103, 150, 151, 152, 155, 253, 258, 254, 258, 264, 265, 273, 274, 283, 284, 355, 358, 364, 365, 373, 374, 381, 382, 383, 384, 463, 464, 473, 474, 481, 482, 465, 466, 467, 468, 469		
5. Major Electives: 6 credits		6
***Students may take six credits of elective courses (200-400 level) in one or more of the following departments/disciplines: Fine Arts; History, Philosophy and Anthropology; English; Black Studies; Speech;		

World Languages, Literatures and Humanities; or Music.	
Credit Total	
Total Art History Program credits	45
Total Core Curriculum credits	30-42
Total Free Elective credits	43-55
Total credits for the BA in Art History	120

* FA 101, FA 102, and FA 297 count toward the Creative Expression Flexible Core requirement.

** FA 104 and FA 105 count toward the World Cultures and Global Issues Flexible Core requirement.

***Certain 200-400 level courses selected across the disciplines may also count toward the Flexible Core requirement.

Art History (Minor)

Requirements for the Art History Minor	15
Introduction Course	
Choose one from the following:	
FA105 Introduction to Fine Arts: Caves to Cathedrals	3
FA106 Introduction to Fine Arts: Cathedrals to Contemporary	3
Upper Level Art History Courses	12
Area I. Western Art to the 18th Century	3
Choose one course from the following:	
FA290 Ancient Art	3
FA291 Art of Medieval Europe	3
FA292 Early Renaissance Art	3
FA294 Northern European Art	3
FA390 High Renaissance and Late 16th Century Art	3
FA391 Baroque and Rococo Art	3
Area II. 19th Century Contemporary	6
Choose two courses from the following:	
FA278 The Art and Sound of Video Games	3
FA297 History of Photography	3
FA298 Trends in Twentieth-Century Photography	3
FA303 Film History I	3
FA304 Film History II	3
FA325 Women and Art	3
FA392 19th Century Art	3
FA393 American Art to 1913	3
FA394 Twentieth Century Art in the United States	3
FA396 Twentieth Century Art	3
FA397 Contemporary Art	3
FA398 African-American Art	3
Area III. Non-Western Art	3
Choose one course from the following:	
FA296 African Art	3
FA287 Islamic Art and Architecture	3
FA288 Asian and Pacific Art	3
FA289 Caribbean Art	3
FA395 Latin-American Art	3

Communications Technology (BS)

HEGIS Number 0605

Program Mission

The York College Communications Technology Bachelor's of Science degree is an interdisciplinary program upon completion:

Students will demonstrate the ability to review, conceive, and design integrated media experiences in a variety of mediums and techniques with an understanding of how it will be engaged by a variety of users. Students will demonstrate the ability to navigate the decision-making process for selecting and implementing methods to create integrated media. Students will demonstrate the ability to communicate with and present work for a particular chosen community of integrated media practitioners which they value.

Communications Technology BS Program Goals

Television Production Concentration Goals

1. Students will advance their ability to review, conceive and design linear visual story structure using motion pictures as their medium.
2. Students will advance their technical skill using industry standard tools in motion based visual storytelling.
3. Communicate and present their time-based work in a professional manner concurrent with modern media marketing and digital identity techniques found in the entertainment industry.

Web Design and Development Concentration Goals

1. Review and create basic website architectures and designs with the user experience in mind.
2. Understand the fundamentals of digital images, HTML and CSS for constructing web page designs.
3. Understand the full-stack web development process for front-end and back-end development. With an intermediate level understanding of JavaScript to develop front-end and back-end tools for interaction.
4. Advance communication and presentation skills necessary to succeed in obtaining professional employment and/or pursue graduate studies.

The York College Communications Technology major is an interdisciplinary program bringing together television, web, information systems, computer science, and design. The program offers three main concentrations: digital video, computer graphics, and systems and applications. Our majors are prepared for a variety of career opportunities in a variety of production environments.

The majority of CT classes are project-based. Students create documentaries, graphics packages, multi-camera television shows or market work through social networks. In addition, students are kept abreast of emerging industry workflows. Every project becomes an opportunity to showcase work in a portfolio.

One of the unique attributes of the CT program is how web-based portfolio building is embedded within the major. Every student in the major builds a work-in-progress portfolio for every project-based class. Each class portfolio becomes a storehouse of the students' work and their process with critique from faculty and peers. Upon reaching their senior year, students will have an abundance of work to reflect on and choose from to build their final portfolio to showcase and start their career.

New York City is the media capital of the world, and students have unique access to quality internships year round. Communication Technology majors have interned with a number of organizations including: NY1, NFL Films, MTV, VH1, SNY, and Silver Cup Studios.

A significant number of our majors are in our highly successful Digital Video concentration - a non-fiction television production program. From the beginning, students are taught to focus on storytelling and access to story as they build technical expertise in production and post-production. The preparedness of our graduates is reflected in their success stories. Students in the digital video concentration have been published in media journals, become web sensations, gone to graduate school, work in film, television, news and more.

Communications Technology BS		
Major Discipline Requirements		46
Basic Requirements		15
CT101	Digital Storytelling	3
CT137	Hacking & Building	3
CT201	Foundations in Communications Technology	3
CT205	Principles of the Moving Image	3
SPCH350	Persuasion and Propaganda in Mass Media	3
Area Requirements		21
Students may select Television Production or Web Design & Development Concentration:		
A. Television Production Concentration		21
CT160	User Experience Design	3
CT210	Portrait Documentary	3
CT240	Studio Television Production	3
CT244	Multimedia Sound Production	3
CT345	Introduction to Motion Graphics	3
CT355	Cinematography	3
JOUR282	Introduction to Writing Broadcast News	3
B. Web Design & Development Concentration		21
CT160	User Experience Design	3
CT345	Introduction to Motion Graphics	3
CT360	Web Design I	3
CT370	Web Development I	3
CT381	Web Design II	3
CT385	Web Development II	3
ENG384	Writing for Electronic Media	3
Major Electives		3
Select one course from the following:		
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
HIST373	The History of Technology	3
SPCH303	Ethics and the Freedom of Speech	3
Senior Requirements		7
CT399	Portfolio Design	1
CT401	Final Project/Senior Seminar	3
CT490	Internship	3
or		
CT491	Internship	3

Communication (Minor)

Requirements for Communication Minor		15
Required Courses		6
SPCH101	Fundamentals of Speech Communication	3
SPCH303	Ethics and the Freedom of Speech	3
Electives		9
Choose three courses from the following:		
SPCH160	Fundamentals of Oral Interpretation: Prose and Poetry	3
SPCH182	Voice and Diction	
SPCH201	Argumentation and Debate	3
SPCH250	Introduction to Mass Media	3
SPCH260	Public Communication	3
SPCH270	Gender and Communication	3
SPCH341	Communications in Small Groups	3
SPCH350	Persuasion and Propaganda in Mass Media	3

Note: Speech Communication/Theatre Arts majors may not minor in Communication.

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.

Requirements for the Communications Technology Minor		15
Required Courses		6
CT101	Digital Storytelling	3

CT160	User Experience Design	3
Area Requirements		9
Student may select Television or Web Design & Development as an area of concentration for the minor:		
A. Television Production Concentration		9
Select three courses from the following:		
CT210	Portrait Documentary	3
CT240	Studio Television Production	3
CT244	Multimedia Sound Production	3
CT355	Cinematography	3
B. Web Design & Development Concentration		9
Select three courses from the following:		
CT360	Web Design I	3
CT370	Web Development I	3
CT381	Web Design II	3
CT385	Web Development II	3

Music (BMus)

HEGIS Number 1005

Mission

The York College music program enables students to a wider understanding of music making in their environments, throughout history, and around the globe. Students in the program connect their musical background with a variety of musics through performance, analysis, composition, and production. Graduates of the program will be effective musical leaders who can then apply their acquired skills in their chosen musical endeavors.

Program Goals

1. Demonstrate foundational skills in performing on the piano and performing as part of an ensemble.
2. Analyze music, both aurally and visually, in order to recognize, interpret, and create musical structures across different genres.
3. Develop a foundational understanding of the evolution of music making in the Western classical traditions, as well as an alternative history of music making in non-Western and popular music traditions.

Student Learning Outcomes

1. Demonstrate foundational skills in performing on the piano and performing as part of an ensemble.
 - 1.1 Demonstrate the ability to independently practice and improve the performance of level-appropriate repertoire.
 - 1.2 Perform foundational repertoire on the piano with accurate rhythm and technique.
 - 1.3 Successfully prepare for and improve one's performance within an ensemble.
2. Analyze music, both aurally and visually, in order to recognize, interpret, and create musical structures across different genres.

2.1 Analyze harmonic function in both Western classical and popular music traditions.

2.2 Apply the principles of harmonic function by composing music that successfully demonstrate diatonic and chromatic musical structures.

2.3 Accurately sing a notated melody by using solfege, and accurately transcribe a heard melody or harmonic progression by using musical notation.

3. Develop a foundational understanding of the evolution of music making in the Western classical traditions, as well as an alternative history of music making in non-Western and popular music traditions.

3.1 Demonstrate an understanding of the broad stylistic periods in music history, including Western classical, non-Western and popular music traditions.

3.2 Demonstrate an understanding of the major aspects of ethnomusicological research.

3.3 Articulate change or continuity over time in the practice, preservation, and dissemination of music, and support arguments with appropriate evidence.

3.4 Demonstrate the ability to research topics related to Western classical, non-Western, or popular music traditions by using appropriate research tools.

Bachelor of Music BMus		
Requirements for Music Major		50
Introductory Courses		6
MUS101	Introduction to Music	3
MUS110	Fundamentals of Music Theory	3
Piano		4
MUS141	Class Instruction in Piano I	1
MUS241	Class Instruction in Piano II	1
MUS291	Keyboard Accompaniment	2
Music Theory & Ear Training		13
MUS208	Music Theory I	3
MUS209	Ear Training I	2
MUS218	Music Theory II	3
MUS219	Ear Training II	2
Upper-Level Music Theory Elective (choose one)		
MUS323	Form & Analysis	3
MUS420	Instrumentation	3
MUS422	Conducting	3
MUS425	Composition	3
MUS461	Jazz Analysis	3
Performance Studies		8
MUS186	Studies in Musical Performance I	1
MUS187	Performance Workshop I	1
MUS286	Studies in Musical Performance II	1
MUS287	Performance Workshop II	1
MUS386	Studies in Musical Performance III	1
MUS387	Performance Workshop III	1
MUS486	Studies in Musical Performance IV	1

MUS487	Performance Workshop IV	1
Ensemble		4
Ensemble I (choose one)		
MUS131	Gospel Choir I	1
MUS138	Chorus I	1
MUS139	Jazz Band I	1
MUS146	Jazz Improvisation I	1
Ensemble II (choose one)		
MUS231	Gospel Choir II	1
MUS238	Chorus II	1
MUS239	Jazz Band II	1
MUS246	Jazz Improvisation II	1
Ensemble III (choose one)		
MUS331	Gospel Choir III	1
MUS338	Chorus III	1
MUS339	Jazz Band III	1
MUS346	Jazz Improvisation III	1
Ensemble IV (choose one)		
MUS431	Gospel Choir IV	1
MUS438	Chorus IV	1
MUS439	Jazz Band IV	1
MUS446	Jazz Improvisation IV	1
Ethnomusicology & Popular Music		6
MUS270	Introduction to Ethnomusicology (WI)*	3
Ethnomusicology & Popular Music Elective (choose one)		
MUS250	African-American Music (WI)	3
MUS253	History of Jazz (WI)	3
MUS254	History of Rock	3
MUS278	Art & Sound of Video Games**	3
MUS279	History of Hip-Hop (WI)***	3
MUS301	American Musical Theatre (WI)****	3
MUS453	Globalization of Jazz	3
MUS455	History of Film Music	3
Western Music History		6
MUS350	Middle Ages to Baroque Era	3
MUS351	Classical and Romantic Eras	3
Senior Requirement		3
MUS490	Senior Recital (WI)	3
Credit Total		
Total Music Program Credits		50
Total Core Curriculum Credits		33-36
Total Free Elective Credits		34-37
Total credits for BA in Music		120

*MUS 270 is cross listed with ANTH 270. Either course will be accepted.

**MUS 278 is cross listed with FA278. Either course will be accepted.

***MUS 279 is cross listed with HIST 279. Either course will be accepted.

****MUS 301 is cross listed with TA 301. Either course will be accepted.

Music Performance (Minor)

Requirements for the Music Performance Minor		15
I. Core		9
MUS110	Fundamentals of Music Theory	3
MUS141	Class Instruction in Piano I	1
MUS208	Music Theory I	3
MUS209	Ear Training I	2
II. Performance Studies		4
MUS186	Studies in Musical Performance I	1
MUS187	Performance Workshop I	1
MUS286	Studies in Musical Performance II	1
MUS287	Performance Workshop II	1
III. Ensemble		2
ENSEMBLE I (choose one)		
MUS131	Gospel Choir I	1
MUS138	Chorus I	1
MUS139	Jazz Band I	1
MUS146	Jazz Improvisation I	1
ENSEMBLE II (choose one)		
MUS231	Gospel Choir II	1
MUS238	Chorus II	1
MUS239	Jazz Band II	1
MUS246	Jazz Improvisation II	1

Music Production (Minor)

Requirements for the Music Production Minor		15
I. Core		
MUS225	Foundations of Music Production (WI)*	3
II. Music Production		9
Electives (choose three)		
MUS299	Music Industry (WI)	3
MUS327	Science of Recorded Sound	3
MUS328	Advanced Music Production	3
MUS329	Recording Techniques for Music	3
MUS427	Mixing and Mastering	3
III. Ethnomusicology & Popular Music		3
Electives (choose one)		
MUS250	African-American Music (WI)	3
MUS253	History of Jazz (WI)	3
MUS254	History of Rock	3
MUS270	Introduction to Ethnomusicology (WI)*	3
MUS278	Art & Sound of Video Games**	3
MUS279	History of Hip-Hop (WI)***	3

Note:

MUS 250 or MUS 253 or MUS 270 may also be taken to fulfill the Flexible Core: Creative Expression requirement.

*MUS 270 is cross listed with ANTH 270. Either course will be accepted.

**MUS 278 is cross listed with FA278. Either course will be accepted.

***MUS 279 is cross listed with HIST 279. Either course will be accepted.

Speech Communication and Theatre Arts (BA)

HEGIS Number 1506

Program Mission

As a fundamental element of the humanizing process inherent in a liberal arts education, the Speech Communication and Theatre Arts major seeks to address the theory and practice of human communication, in its various settings and across diverse cultures, to foster students' abilities to think critically and communicate creatively, and to train students in the written, physical, and technical skills of interpretive performance and rhetorical arts.

Students may pursue an emphasis in either speech communication or theatre arts. Each concentration includes tracks of study designed to provide students with both a solid liberal arts foundation while preparing them for graduate work in all areas of speech communication and theatre including rhetoric, communications studies and theory, journalism, public relations, media studies, acting, acting for television, theatre history, and technical production design in scenery, costuming, sound and lighting.

Program Goals

1. Demonstrate graduate entry level proficiency in one or more technical and/or physical aspects of the theater and speech communication including, but not limited to, acting, directing, design (sets, lighting, costumes, sound, scenic painting, props), and stage management and/or research, organization, and presentation of material as producers and consumers of speech and communication.
2. Integrate creative conception and execution with modern cultural relevancies and/or the historical foundations of theatre and/or speech and rhetoric including major authors, periods, movements, key historical concepts, theories, and applications.
3. Lead in the creation of a theatrical presentation and/or communication projects which demonstrate professional standards, judgments, ethics, discipline, and an appreciation for the production necessities, responsibilities, and collaborative nature of theatre and/or the intrinsic practices and productions of speech communication scholarship.

4. Employ graduate level critical writing and/or listening skills of creative work, theatre history, literature and/or speech and communicative texts and presentations with the creation of logical argument, well-founded ethical research, and/or judicious and insightful criticism.
5. Develop an evocative, creative career-driven purpose and/or professional goals by establishing a relation between one's artistic creativity or managerial skills and/or speech and communication research, expression, and analysis with meaningful interdisciplinary study, societal application and community outreach, ethical awareness, and/or business studies, economics, or scientific inquiry, befitting the breadth of career possibilities within the communication field and the understanding and motivation of a global citizen.

Speech Communication and Theatre Arts BA		
Major Discipline Requirements		36
Required Speech Communication and Theatre Arts Courses		15
SPCH101	Oral Communication in Contemporary Society	3
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 12 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.

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

Studio Art (BA)

HEGIS Number 1002

The Studio Art program is designed to help students acquire and achieve comprehension of the fundamental knowledge and skills of art production as well as an understanding of art history. Studio Art also encourages students to develop analytical and expressive skills in addition to discovering creative solutions to problem solving. After completing their B.A degree, students can pursue their research and creative artwork at the graduate level. Students will also be well situated for employment in many art institutions, galleries, and educational organizations.

The Studio Art curriculum also allows students to develop their competence and productivity in one or more 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, 273, 101 and 102 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		
Major Discipline Requirements		45
1. Six credits chosen from the following:		6
FA101	Visual Elements: Two-Dimensional*	3
FA102	Visual Elements: Three-Dimensional*	3
FA103	Foundations of Photography	3
2. Six credits chosen from the following:		6
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
3. Twelve credits chosen from the following:		12
FA151	Color	3

FA155	Drawing I	3
FA253	Graphic Design I	3
FA254	Graphic Design II	3
FA258	Graphics I , Printmaking	3
FA264	Painting I	3
FA265	Painting II	3
FA273	Sculpture I	3
FA274	Sculpture II	3
FA284	Computer Graphics I	3
FA355	Drawing II	3
FA358	Graphics II: Print-Making	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
4. Three credits chosen from the following:		3
FA105	Introduction to Fine Arts: Caves to Cathedrals	3
FA106	Introduction to Fine Arts: Cathedrals to Contemporary	3
5. Select any nine credits from Art History Major Areas A, B, C, and D:		9
Area A. Western Art to the 18th Century		
FA290	Ancient Art	3
FA291	Art of Medieval Europe	3
FA292	Early Renaissance Art	3
FA294	Northern European Art	3
FA390	High Renaissance and Late 16th century art	3
FA391	Baroque and Rococo Art	3
Area B. 19th Century - Contemporary		
FA278	Art and Sound of Video Games	3
FA297	History of Photography*	3
FA298	Trends in Twentieth-Century Photography	3
FA303	Film History I	3
FA304	Film History II	3
FA325	Women and Art	3
FA392	19th Century Art	3
FA393	American Art to 1913	3
FA394	Twentieth Century Art in the United States	3
FA396	Twentieth Century Art	3
FA397	Contemporary Art	3
Area C. Non-Western Art		
FA296	African Art	3

FA287	Islamic Art and Architecture	3
FA288	Art of Asia and the Pacific	3
FA289	Caribbean Art	3
FA395	Latin-American Art	3
FA398	African-American Art	3
Area D. Art History Special Studies and Research in Art History		
FA475	History Special Studies (WI)	3
FA476	History Special Studies (WI)	3
FA477	History Special Studies (WI)	3
FA478	History Special Studies (WI)	3
FA479	History Special Studies (WI)	3
FA499	Research in Art History (WI)	3
6. Nine credits in Fine Arts Electives		9
Choose any 3 additional art studio classes:		
FA 101, 102, 103, 150, 151, 152, 155, 253, 258, 254, 258, 264, 265, 273, 274, 283, 284, 355, 358, 364, 365, 373, 374, 381, 382, 383, 384, 463, 464, 473, 474, 481, 482, 465, 466, 467, 468, 469		
Credit Totals		
Total Studio Art program credits		45
Total Core Curriculum credits		33-36
Total free elective credits		39-42
Total credits for the BA in Studio Art		120

Notes:

* FA 101, FA 102, and FA 297 count toward the Flexible Core: Creative Expression requirement.

** FA 105 and FA 106 count toward the Flexible Core: World Cultures and Global Issues requirement.

Studio Art (Minor)

Requirements for the Studio Art Minor		
Required Courses		15
Three credits chosen from the following:		
FA101	Visual Elements: Two-Dimensional	3
FA102	Visual Elements: Three-Dimensional	3
FA103	Foundations of Photography	3
Three credits chosen from the following:		
FA264	Painting 1	3
FA273	Sculpture 1	3
FA155	Drawing 1	3
FA381	Photography 1	3
FA284	Computer Graphics I	3
FA488	Video 1	3
FA253	Graphic Design 1	3
Three credits chosen from the following:		
FA105	Introduction to Fine Arts: Caves to Cathedrals	3
FA106	Introduction to Fine Arts: Cathedrals to Contemporary	3

Fine Arts Electives		
	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.	

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.

Requirements for the Theatre Arts Minor		15
Required Courses		6
TA110	Introduction to the Theatre	3
TA215	Studies in Theatre Practices I	3
Choose 3 courses from the following:		9
TA112	Voice and Stage Movement for Actors I	3
TA114	Stagecraft I	3
TA115	Stagecraft II	3
SPCH160	Fundamentals of Oral Interpretation: Prose and Poetry	3
SPCH182	Voice and Diction	3
TA211	Basic Acting	3
TA212	Scene Study	3
TA261	Intermediate Oral Interpretation (Drama)	3
TA311	Fundamentals of Directing	3
TA314	Computer Design for the Stage	3
TA316	Performance for Television	3
TA317	Theatrical Criticism	3
TA390	Special Studies Seminar I	3
TA411	History of Avant-Garde Performance	3
TA490	Independent Research	3
One course may be chosen from below to satisfy the requirement:		
ENG318	Shakespeare: The Major Works	3
ENG364	The Tragic Vision	3
ENG365	The Comic Vision	3
SPCH390	Special Studies Seminar I	3

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

Department of World Languages, Literatures, and Humanities

**Academic Core Building, Room 3C08
718-262-2430**

Bahri, Hamid, Associate Professor

Bajaj, Lalit, Instructor

Ballantyne, Margaret, Professor

Barnes, Aegina, Lecturer

Drago, Margarita, Professor

Francois, Jean, Professor

Gerena, Linda, Professor

Ghelli, Samuel, Associate Professor

Gutierrez, Franklin, Professor

Iratni, Omar, Instructor

Meddeb, Elizabeth, Associate Professor

Proxam, Joseph, Instructor

Ramos, Juana, Assistant Professor

Saad, Zohra, Associate Professor

Salek, Fabiola, Professor and Chair

Vasquez, Eva, Associate Professor

Weisblatt, Steven, Instructor

Applied Linguistics (Minor)

Requirements for the Applied Linguistics Minor		12
Choose one course from the following:		3
HUM202	Introduction to Linguistics*	3
FREN235	French Linguistics	3
SPAN210	Spanish Linguistics	3
Choose one course from the following:		3
EDUC268	Bilingual and English Language Learner (ELL) Education	3
HUM210	Language Development**	3
HUM219	Introduction to Second Language Acquisition	3
SPAN308	Approaches to Spanish Language Acquisition	3
Choose one course from the following:		3
ENG272	World Englishes***	3
ENG297	Language, Technology, and Society (WI)	3
ENG375	English Sociolinguistics	3
EDUC378	Advanced Socio-Linguistics: Literacy for K-12 English Language Learners	3
HUM200	Introduction to Intercultural Communication***	3
HUM209	Gender and Language (WI)**	3
HUM305	The Language of Food	3
SPAN310	Spanish Sociolinguistics	3
Choose one courses from the following:		3
CRE241	Translation I	3
CRE242	Translation II	3
ENG270	Introduction to English Grammar and Syntax	3
ENG279	Special Topics in Writing, Rhetoric, and Language	3

ENG295	Technologies of Reading	3
ENG371	History of the English Language	3
FREN217	Advanced Grammar and Composition	3
FREN240	Translation I	3
FREN241	Translation II	3
FREN313	History of the French Language	3
HUM295	Ancient Greek and Latin in English Today	3
HUM308	Natural Language Processing	3
SPAN208	Advanced Grammar	3
SPAN240	Translation I	3
SPAN241	Translation II	3
SPAN309	Comparative Structure of English and Spanish	3

NOTES:

*HUM 202 may also be taken to fulfill the Flexible Core: Scientific World requirement.

**HUM 209 or HUM 210 may also be taken to fulfill the Flexible Core: Individual and Society requirement.

***ENG 372 or HUM 200 may also be taken to fulfill the Flexible Core: World Cultures and Global Issues requirement.

- CRE 241 is the prerequisite for CRE 242; FREN 240 is the prerequisite for FREN 241; SPAN 240 is the prerequisite for SPAN 241.

Creole (Minor)

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

Requirements for the Creole Minor		15
Required Courses		6
Select 2 from the following:		
CRE208	Masterpieces in Haitian Creole Literature	3
CRE241	Translation I	3
CRE242	Translation II	3
HUM253	The Haitian Experience in the US	3
Select 3 additional Creole courses starting with CRE 106. (French 382 can be used as a substitute)		9

Creole for Professional Purposes (Certificate Program)

Certificate Program for Creole for Professional Purposes		18
Required Courses		6
CRE241	Translation I	3
CRE242	Translation II	3
Choose 4 additional courses from Creole 106 - 499, HUM 253, FREN 382.		12

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.

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.

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

Film Studies (Minor)

Requirements for Film Studies Minor		12
I. Choose 2 courses from the following:		6
HUM110	Introduction to Film Studies	3
FA303	Film History I: Style and Imagination I	3
FA304	Film History II: Style and Imagination II	3
II. Choose two courses from the following:		6
HUM105	The Changing Depiction of the Family in American Popular Culture	3
HUM221	Pictures of Italy: A Journey into Modern and Contemporary Italy Through Film	3
HUM224	Cinematic Adaptation	3
ENG290	Fiction Into Film	3
FA403	Film and the Modern Arts	3
TA201	Shakespeare: From Script to Screen	3

Food Studies (Minor)

Requirements for Food Studies Minor		11-12
Choose 2 courses (6 credits) from the following:		6
ANTH222	The Archaeology of Early Man	3
ANTH301	Alcoholism and Obesity Cross-Culturally	3
ANTH303	Food and Culture	3
ANTH315	Hunger and Agriculture in Developing Nations	3
HUM240	Food is Culture: The Success of 'Made in Italy'	3
HUM305	The Language of Food	3
ENG393	Food: Literary and Rhetorical Explorations	3
Choose one course (3 credits) from the following:		3
BIO140	Human Biology	3
CHEM120	Environmental Chemistry	3
CHEM121	Chemistry in Our Time	3
Choose one course (2-3 credits) from the following:		2-3
BIO382	Nutrition	2
HE313	Alcohol and Alcoholism	3
HE314	Nutrition and Health	2
PSY345	Psychology of Food	3

French (BA)

HEGIS Number 1102

Mission Statement

The mission of the French/Francophone program is to prepare our students to navigate successfully in French in a global, linguistic and cultural context, in France and in a French-speaking country. First, the French Program strives to teach students to speak, read, and write a language other than English and to use that language to apprehend and respond to the cultures appertaining to these languages. Our students are trained to identify, discuss, and analyze the foundations of the French and Francophone literatures and to attain a deeper understanding of different literary periods, their most representative works and their authors. Additionally, the program strives to make the students understand the historical development of one or more non-US societies, the historical evolution of the French language, its culture, and its society and establish a connection with today's global societies. The French Program also aims to equip the students with the grammatical, linguistic, and cultural knowledge required for their professional careers through a variety of courses. Our students are introduced to an enriching, challenging intellectual and cultural life and are encouraged to spend a semester in France or a French speaking country through the Study Abroad Program to improve their linguistic, cultural and oral skills as well as their understanding and appreciation of the literature and civilization particular to French.

French Program Goals

1. Obtain general knowledge of main French literature periods and movements through a given historical period, its most representative masterpieces and their authors.
2. Obtain general knowledge of key authors and works of literature from the Caribbean, North African and Sub-Saharan Francophone countries.
3. Understand the orthography, morphology, and syntax, and literary forms used in a variety of French and Creole texts and popular cultural resources.
4. Analyze the role of history and colonialism in the emergence of a literature written in French, outside of France.
5. Develop communication skills in both speaking and writing in French as well as in Creole.

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	
Select one course from the following:	3	
FREN210	Literary Theory	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
Select one course from the following:	3	
FREN334	Literature of the French West Indies	3
FREN335	Literature of French Speaking Africa	3
Eight additional French or Creole courses at the 200 level and above, including WLIT 205, 206 and 210. One course from the following can be used as a substitute: HUM 253, SOC 235. *Six additional credits for the Department Honors Program	24	

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

Requirements for the French and Francophone Studies Minor		
Required Course		3
Select one from the following:		
FREN210	Literary Theory	3
FREN217	Advanced Grammar and Composition	3
FREN218	Stylistics	3
FREN231	Survey of French Literature I	3
FREN232	Survey of French Literature II	3
FREN235	French Linguistics	3
Select 4 additional French or Creole courses on the 106 level or above, including HUM 253, WLIT 205, WLIT 206 and WLIT 210		12

French for Professional Purposes (Certificate Program)

Certificate Program for French for Professional Purposes		18
Required Courses		9
FREN200	Commercial French	3
FREN217	Advanced Grammar and Composition	3
		3
FREN240	Translation I	3
FREN241	Translation II	3
Choose 3 additional Language, Literature or Culture courses from FREN 106 - FREN 499		9

French and Francophone Studies (Minor)

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.

Requirements for the Italian Studies Minor		15
Language		3
Choose one course from the following:		
ITAL105	Intermediate Italian I	3
ITAL201	Guided Study in Italian Language	3
Literature, Culture, and Civilization		6
Choose 2 courses from the following list:		
HUM221	Picture of Italy	3
HUM240	Food is culture: The Success of 'Made in Italy'	3
HUM245	Fashion, Italian Style	3
HUM250	The Italian Experience in the United States	3
HUM350	Italian Culture and Civilization	3
ITAL356	A Major Italian Author in Translation	3
WLIT211	Italian Theater in Translation	3
WLIT230	Divine Comedy in Translation	3
Cultural Studies		6
Choose two courses from the following list:		
CLDV210	Western Civilization	3
FA290	Ancient Art	3
FA291	Art of Medieval	3
FA292	Early Renaissance Art	3
FA390	High Renaissance/Late 16th Century Art	3
FA391	Baroque & Rococo Art	3
HIST210	Renaissance, Reformation and the Early Modern European State	3
HIST333	Nineteenth-Century Europe	3
HIST334	Twentieth-Century Europe	3
HUM260	The World of Opera: A Concise History	3
ITAL400	Individual Study	3
MUS350	Middle Ages to Baroque Era	3
PHIL212	Medieval Philosophy	3
POL268	Political Theory II Machiavelli to Marx	3
WLIT201	The Literature of the Western World through the Renaissance	3

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.

Requirements for the Latin American Studies Minor		15
Required Courses		9
HIST368	Latin America since 1825	3
POL250	Latin American Politics	3
Spanish Language or Literature		

One course above SPAN 105		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)

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.

Requirements for the Puerto Rican Studies Minor		15
Required Courses		9
PRST241	Puerto Ricans in New York	3
PRST242	Puerto Rican Society/Culture I	3
PRST243	Puerto Rican Society/Culture II	3
Choose two courses from the following list:		6
ANTH243	Anthropology of the Caribbean	3
ANTH244	Anthropology of Latin America	3
ANTH249	Anthropology of Puerto Rico	3
FA395	Latin American Art	3
HIST367	Colonial Latin America	3
HIST368	Latin America since 1825	3
HUM272	The Latino Experience in the U.S.	3
POL250	Latin American Politics	3
POL251	Puerto Rican Politics	3
POL252	Cuban Politics	3
CLDV201	Culture/Societies of the World: Africa, Latin America and the Caribbean*	3
SPAN201	Hispanic-American Literature from its Origins through Modernismo	3
SPAN202	Hispanic-American Literature after Modernismo	3
SPAN203	Hispanic-American Short Story	3
SPAN304	Puerto Rican Literature	3
SPAN332	The Contemporary Hispanic-American Novel	3

Spanish (BA)

HEGIS Number 1105

Program Mission

The mission of the Spanish program is to prepare our majors and minors for their professional careers through a variety of courses in which they study and learn about the Spanish language, culture, and literature, so they become active participants in their communities, innovative and ethical professionals who contribute to the development of a more inclusive society, in terms of cultural, linguistic, and intellectual diversity. Students in our program are introduced to an enriching and challenging intellectual and cultural life by exposing them to guest lectures, colloquia, poetry and narrative readings, film festivals, museum trips, and student writing contests. Furthermore, our program aims to provide students with a comparative element that will enable them to improve communication skills in their own language. In order to accomplish our educational goals, a rigorous academic orientation is provided to each student.

Program Goals

1. Learn the origin of the Spanish language, its evolution, and linguistic and cultural diversity throughout the centuries.
2. Demonstrate oral and written understanding of what literature is; write about it and relate studied literary works to their socio-political and cultural context.
3. Demonstrate proficiency in the use of the Spanish Language through analyses of the orthography, morphology, and syntax used in a variety of Spanish texts and popular culture.
4. Develop writing and oral communication skills.
5. Attain information literacy skills relevant to the discipline.

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 and 104 for bilingual students; 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 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.

Students exempted (0 credits) from taking foreign language requirements are recommended to take Spanish electives (200 level or above, minor or Liberal Arts electives).

Spanish BA		
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 12 credits in the SPAN 200 Level or above. 6 Credits MUST be at the 300 or 400 level.		

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.

Requirements for the Spanish Minor		
Required Courses		6
SPAN200	Introduction to Literary Theory and Analysis	3
SPAN209	Composition and Style	3
Choose three courses in Spanish at the 200-level. Students may choose World Literature 212 in place of one Spanish course on the 200-level.		9

Spanish For Professional Purposes (Certificate Program)

This certificate program is designed for students who wish to further their language skills in Spanish in order to use Spanish in their professional activities. Students in this program may combine the certificate with their major, or they may enroll in the College for the express purpose of pursuing this certificate program. In the case that such a student then decides to pursue a B.A. in Spanish, these courses may then count toward the major. All students enrolled in the Certificate program must meet matriculation standards of the College, and must fulfill prerequisites for all required and elective courses. Students with transfer credit in Spanish may use no more than 6 transferred credits towards this program.

Certificate Program for Spanish for Professional Purposes		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.

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.

Requirements for the World Literature Minor		15
Introduction to Literary Analysis and Theory		3
Choose one of the following:		
ENG311	Literary Studies	3
SPAN200	Introduction to Literary Analysis	3
Regional Literatures		6
Choose two, from different disciplines:		
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		3
Choose one from the following:		
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
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		3
Choose one from the following:		
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

Womens 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.

Requirements for the Women's Studies Minor		15
Required Courses		6
HUM302	Women's Studies I	3
HUM303	Women's Studies II	3
Choose 3 courses from the following list:		9
ANTH205	Anthropology of Sex	3
BLST103	Black Women in the Atlantic World	3
ENG395	Women Writers	3
ENG396	Global 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
HUM209	Gender and Language	3
HUM304	Gender Dynamic in the Twenty Century	3
PHIL203	Philosophy of Women	3

PSY236	The Psychology of Women	3
SOC247	Family and Kinship	3
SOC338	Sociology of Gender and Sexuality	3
SPAN300	Women Writers from Latin America	3
SPAN320	Women Writers from Spain	3

WLIT226	Contemporary Women Writers in World Literature	3
WLIT396	Global Women Writers*	3

*ENG 396 is cross-listed with WLIT 396. Either course is accepted.

School of Business and Information Systems

Welcome to York School of Business and Information Systems. It is exciting to be a part of the York community. Located in New York City, the business capital of the world, we encourage and assist our students to obtain internships with industry leaders and develop practical knowledge along with their classroom education. Our outstanding faculty bring a balanced mix of academic research and industry experience to the classroom. Their insights help to position our graduates to be both immediately effective in their careers as well as have a vision of the future.

In today's economy we see massive changes in both technology and political-economic developments. The one thing we know will be constant from day to day is change.

It will never stop. Hence, we are constantly developing and revising our programs to fit the dynamic environment of the business community. We judge ourselves based on our performance educating and helping students develop, and our success can only be measured by the long term positive impact we have on our students' lives and our community.

The three tiers of our success depend on our alumni, our current students, and our support from outstanding individuals and businesses. We look forward to working with all of you and building the future of business education at York.

Department of Accounting and Finance

**Academic Core Building, Room 2B06
718-262-2501**

Bharosay, Boadnarine, Professor

Clovey, Robert, Associate Professor

Hsu, Chris, Professor and Chair

Kranacher, Mary-Jo, Professor

Radhamohan, Chaitanand, Lecturer

Accounting (BS)

HEGIS Number 0502

The mission of the Accounting Program is: (1) to offer students an accounting undergraduate major with a choice of concentrations that will provide them with the theoretical, practical, intellectual and ethical resources needed to prepare them for their desired career path; (2) to ready them for leadership positions in the public, private, governmental and not-for-profit sectors; and (3) to provide a diverse student body with the tools needed to be productive members of their local, national and global communities.

Accounting Program Goals

- To provide knowledge of each of the primary areas of accounting required for the Uniform CPA examination: financial, managerial, taxation and auditing.
- To ensure competence with technology commonly used in the accounting profession.
- To develop critical thinking skills.
- To ensure competence in written and oral communications.
- To instill ethics, including knowledge of financial regulations and professional codes of conduct.

Accounting BS		
Program Prerequisites		9
ECON102	Microeconomics	3
ECON103	Macroeconomics	3
ECON220	Economics Statistics	3
OR		
FINC125	Financial Mathematics II	3
Required Courses		33
ACC101	Principles of Accounting I	3
ACC102	Principles of Accounting II	3
ACC201	Intermediate Accounting I	3
ACC202	Intermediate Accounting II	3
ACC335	Auditing I	3
ACC345	Cost Accounting I	3
BUS283	Business Law I	3
OR		
FINC245	Regulations for Accountants and Financial Professionals	3

FINC201	Foundations of Finance	3
OR		
FINC321	Principles of Finance	3
BUS201	Computer Applications in Business	3
OR		
FINC150	Financial Data Analytics	3
FINC250	Financial Data Analytics II	3
FINC475	Case Studies in Accounting and Finance	3
OR		
BUS481	Strategic Management	3
Concentrations		18
Students must choose one of three concentrations.		
I. Concentration in Internal Audit and Fraud Examination		18
ACC238	Fraud Examinations	3
ACC260	Internal Audit I	3
ACC261	Internal Audit II	3
ACC339	Advanced Fraud Examination	3
Concentration I Electives: Students must choose 6 additional credits in Accounting and Finance		6
II. Concentration in Public Accounting		18
ACC203	Intermediate Accounting III	3
ACC301	Advanced Financial Accounting	3
ACC350	Income Taxation	3
ACC351	Advanced Income Taxation	4
Concentration II Electives: Students must choose 5 additional credits in Accounting and Finance		5
III. Concentration in General Accounting		18
ACC210	Computer Applications in Accounting	3
ACC240	International Accounting	3
ACC251	Financial Statement Analysis	3
ACC245	Budgeting and Comptrollership Accounting	3
Concentration III Electives: Students must choose 6 additional credits from the following list:		6
ACC290	Accounting Internship	1
ACC291	Accounting Internship	2
ACC292	Accounting Internship	3
ACC346	Cost Accounting II	2
ACC491	Accounting Independent Study I	1
BUS301	Management Theory and Practice	3
FINC101	Fundamentals of Financial Planning and Wealth Management	3
FINC322	Investments and Securities Analysis	3
FINC329	Corporate Finance	3
FINC492	Finance Independent Study	2
Credits Totals		
Total Accounting Program credits:		60
Total Core Curriculum credits:		39-42
Liberal Arts Elective credits:		12-15
Free Elective credits:		3-9
Total credits for the BS in Accounting:		120

Notes:

1. Transfer students majoring in Accounting must complete these courses or have completed their equivalents, even if otherwise waived from completing Core Curriculum requirements.

2. ECON 102 may also be taken to fulfill the Pathways Flexible Core: Individual and Society requirement.

3. BUS 481 OR FINC 475 may also be taken toward fulfillment of the College Option Core: Writing Intensive requirement.

4. All Accounting majors must complete a minimum of 60 liberal arts credits.

- Transfer students concentrating in internal audit, public accounting, or general accounting must complete a minimum of 15 credits in the Accounting discipline at York College.

Accounting (Minor)

Required Courses		9
ACC201	Intermediate Accounting I*	3
ACC210	Computer Applications in Accounting	3
ACC350	Income Taxation	3
Electives (choose two courses)		6-7
ACC238	Fraud Examination**	3
ACC240	International Accounting	3
ACC251	Financial Statement Analysis	3
ACC260	Internal Audit I	3
ACC261	Internal Audit II	3
ACC351	Advanced Income Taxation	4
ACC355	Taxation of Trusts and Estates	3
Total credits for minor in Accounting		15-16

*Business majors in the Finance concentration minoring in Accounting must take ACC 202 for the Accounting minor, as they already take ACC 201 as a major requirement.

**Business majors in the Human Resources Management concentration minoring in Accounting may take ACC 238 to satisfy the elective requirement of one, but *not both*, programs.

Note: Accounting majors may not minor in Accounting.

Finance (BS)

The mission of the Finance program is to provide students with the skills and knowledge necessary to succeed as entry-level finance professionals. These include: (1) the competencies to apply appropriate principles of valuation for major financial assets and securities; (2) the ability to engage in research and evaluate whether investments and corporate financial policies maximize the entity's value; (3) the ability to evaluate the international financial environment and develop appropriate international financial strategies; (4) the ability to identify appropriate financial instruments to implement corporate financial

decisions and investment strategy, and (5) the skills to execute financial decisions in compliance with professional regulations and codes of conduct.

Finance Program Goals

- To provide knowledge of concepts and tools related to the various areas of finance: corporate, investment, international, financial markets and instruments, risk management and derivatives.
- To ensure competence with technology used for data analysis and financial decision-making.
- To develop critical thinking skills.
- To ensure competence in written and oral communications.
- To instill ethics, including knowledge of financial regulations and professional codes of conduct.

Finance BS		
Required Courses		54
ACC101	Principles of Accounting 1	3
ACC102	Principles of Accounting II	3
ACC201	Intermediate Accounting I	3
ACC202	Intermediate Accounting II	3
ACC251	Financial Statement Analysis	3
FINC101	Fundamentals of Financial Planning & Wealth Management	3
BUS201	Computers Application in Business	3
OR		
FINC150	Financial Data Analytics	3
BUS283	Business Law I	3
OR		
FINC245	Regulations for Accountants and Financial Professionals	3
FINC475	Case Studies in Accounting & Finance (WI)*	3
ECON102	Microeconomics**	3
ECON103	Macroeconomics	3
ECON220	Economics Statistics	3
OR		
FINC125	Financial Mathematics II	3
FINC201	Foundations of Finance	3
OR		
FINC321	Principles of Finance	3
FINC250	Financial Data Analytics II	3
FINC322	Investment and Security Analysis	3
FINC324	International Finance	3
FINC329	Corporate Finance	3
FINC355	Futures and Options	3
Electives		6
Choose 6 credits from the following:		
ACC292	Accounting Internship	3
ACC345	Cost Accounting I	3
FINC325	Real Estate Finance	3
FINC360	Finance Risk Management	3
FINC493	Finance Independent Study III	3
Credit Totals		
Total Finance Program credits:		60
Total Core Curriculum credits:		36-42

Liberal Arts Elective credits:	12-15
Free Elective credits:	3-12
Total credits for the BS in Finance:	120

Notes:

* FINC 475 may also be taken toward fulfillment of the College Option Core: Writing Intensive requirement.

**ECON 102 also fulfills the Flexible Core: Individual and Society requirement.

- All Finance majors must complete a minimum of 60 liberal arts credits.
- 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 Finance must be taken at York.

Finance (Minor)

Required Courses		9
ACC251	Financial Statement	3
FINC322	Investment Analysis	3
FINC329	Corporate Finance	3
Electives		6
Choose two courses from among the following:		
FINC324	International Finance	3
FINC355	Foundations in Futures & Options	3
FINC475	Case Studies in Finance	3

Total credits required for minor	15
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Note: Business majors in the Finance concentration may not minor in Finance

Financial Planning and Wealth Management (Minor)

Financial Planning and Wealth Management (Minor)		
Required Courses		9
FINC101	Financial Planning and Wealth Management	3
FINC275	Financial Planning and Wealth Management II	3
FINC375	Financial Planning and Wealth Management III	3
Electives		6-7
Choose two courses from the following:		
ACC101	Principles of Accounting I	3
FINC115	Financial Mathematics I	3
FINC125	Financial Mathematics II	3
FINC150	Business Data Analytics I	3
FINC493	Finance Independent Study III	3
Total credits required for the minor in Financial Planning and Wealth Management:		15-16

Department of Business and Economics

**Academic Core Building, Room 2B06
718-262-2502**

Aceves, Robert, Associate Professor

Amaghionyeodiwe, Lloyd, Associate Professor

Annansingh-Jamieson, Fenio, Associate Professor and Chair

Forrester, Wayne, Lecturer

Johnson, David, Lecturer

Kolmos, John, Assistant Professor

Korkou, Efstathia, Assistant Professor

Lee, Yong Kyu, Assistant Professor

Massimino, Phoebe, Associate Professor

Ou, Chau, Associate Professor

Aviation Management (BS)

HEGIS Number 0599

The Aviation program at York College is committed to delivering the highest quality aviation-oriented education, research and service to our students, college and university.

EFFECTIVE FALL 2020		
Aviation Management BS		60
I. Required Courses		9
ECON102	Microeconomics*	3
ECON103	Macroeconomics	3
ECON220	Introduction to Economics Statistics	3
II. Foundation Courses		21
ACC101	Principles of Accounting I	3
ACC102	Principles of Accounting II	3
OR		
ACC103	Principles of Managerial Accounting	3
BUS201	Computer Applications in Business	3
BUS283	Business Law I	3
BUS301	Management Theory and Practice	3
FINC321	Principles of Finance	3
MKT341	Introduction to Marketing	3
III. Aviation Management Core Courses		21
AVIA230	Introduction to Aviation and Business	3
AVIA250	Aeronautics	3
AVIA360	Airport and Aviation Security	3
AVIA362	Commercial Aviation Safety	3
AVIA410	Ethics and Issues in Aviation**	3
AVIA414	Airport Planning and Management	3
AVIA425	Airline Management	3
IV. Program Electives		9
Choose 9 credits in AVIA, BUS, ECON, FINC or ACC in consultation with your program advisor.		
Credit Totals		
Total Aviation Program Credits		60
Total Core Curriculum Credits		33-42

Total Free Elective Credits	18-27
Total Credits for BS in Aviation Management	120

Notes:

*ECON 102 may also be taken to fulfill the Flexible Core: Individual and Society requirement.

** Upper Division Writing Intensive.

Business Administration (BS)

HEGIS Number 0506

The mission of the Business Administration program at York College is to develop professionally competent and socially responsible men and women for careers in business, government, and other entities requiring the organizational, managerial, and analytical skills necessary in today's rapidly changing global economy. The programs provide students with fundamental knowledge, the educational experience and skills to think critically and creatively, and to adapt to changing social, economic and technological environments.

Concentration 1: Human Resource Management

The Business Administration Human Resource Management Concentration is closely related to labor and industrial relations, as well as organizational behavior. The degree prepares students for positions in human resource leadership, to establish and advance organizational policies and guidelines and to utilize tools and techniques for developing transformational work environments. Graduates of the Human Resource Management Concentration will be prepared to become influential business leaders equipped with the ability to identify, analyze and solve complex human resource and management issues.

Concentration 2: Entrepreneurship

The Business Administration Entrepreneurship Concentration is designed to help students develop skills to enable them to start a small business or develop an existing business. Students are expected to develop business plans, skills in business communication, management and business administration. The Entrepreneurship Concentration focuses on encouraging students to act on their own ideas and become effective business decision-makers. The program often provides internship opportunities for students to gain real-world experience.

Concentration 4: Logistics and Supply Chain Management

The Business Administration Logistics and Supply Chain Management Concentration is designed to provide students with the specific training and education necessary to manage the flow of products and information between businesses. The Logistics and Supply Chain Management Concentration comprehensively studies the

field of supply chain management including Buying, Inventory Control, Supplier Development, Logistics and Distribution, and encourages the development of functional expertise and skills. Students who complete the Logistics and Supply Chain Management Concentration will be equipped with the required skills to oversee critical aspects of the supply chain, and prepare for employment in a variety of administrative and management roles in organizations operating in; transport, purchasing, supply chain management, contract distribution, manufacturing and retailing.

Concentration 5: International Business

With the rapid globalization of business, companies must expand their operations internationally to remain competitive. The new Bachelor of Science in Business Administration - International Business Concentration, is designed to prepare students for an exciting career path by providing them with the knowledge, essential skills, practices, understanding and insight that will enable them to effectively deal with the complexities of today's global business environment, the multinational and multicultural issues involved.

As the demand for high quality international business degree graduates increases, so too do the salaries paid. Some job titles for international business degree holders include: Management Analyst; International Financial Analyst; Market Research Expert; International Trade Administrator; US Department of Commerce - Foreign Service; International Banking Officer; and United Nations - Cultural Advisers among others.

This new program also provides students with the opportunity to travel abroad through the York College Study Abroad/Away Scholarship.

EFFECTIVE FALL 2021		
Business Administration BS		
Required Courses		9
ECON102	Introduction to Microeconomics*	3
ECON103	Introduction to Macroeconomics	3
ECON220	Introduction to Economic Statistics	3
Common Body of Knowledge		33
ACC101	Principles of Accounting I	3
ACC102	Principles of Accounting II	3
OR		
ACC103	Principles of Managerial Accounting	3
BUS160	Introduction to Business	3
OR		
BUS220	Cyber Security Management	3
BUS201	Computer Applications in Business	3
BUS283	Business Law & Ethics	3
BUS301	Management Theory & Practice	3
BUS302	International Business	3
FINC321	Principles of Finance	3
BUS348	Production and Operations Management	3
BUS481	Strategic Management**	3
MKT341	Principles of Marketing	3

Concentration 1: Human Resource Management		
Concentration 1: Required Courses		15
BUS311	Human Resource Management	3
BUS312	Staff Supervision & Employee Relations	3
BUS361	Management of Compensation	3
BUS370	Labor Relations and Collective Bargaining	3
BUS375	Human Resource Development and Training	3
Concentration 1: Elective Courses		3
Choose one course from the following:		
ACC238	Fraud Examination	3
BUS315	Health Care Management	3
BUS349	Entrepreneurship Basic	3
BUS491	Independent Study in Management	3
ECON310	Public Finance	3
ECON361	Economics of Trade Unions	3
ECON390	Independent Research	3
PSY251	Organizational Behavior	3
PSY252	Leadership, Motivation & Power	3
PSY253	Managerial & Personnel Psychology	3
Concentration 2: Entrepreneurship		18
Concentration 2: Required Courses		15
BUS349	Entrepreneurship Basic	3
BUS357	Family Business	3
BUS431	Entrepreneurship Plans	3
MKT344	Retail Management	3
MKT347	Consumer Behavior	3
Concentration 2: Elective Courses		3
Choose one course from the following:		
BUS311	Human Resource Management	3
BUS312	Staff Supervision & Employee Relations	3
BUS368	E-Business Technology	3
BUS491	Independent Study in Management	3
ECON340	International Economics	3
ECON360	Labor Economics	3
ECON390	Independent Research	3
MKT346	International Marketing	3
MKT348	Service Marketing	3
PSY252	Leadership, Motivation and Power	3
Concentration 3: Business Analytics		15
Concentration 3: Required Courses		15
BUS200	Introduction to Programming for Business Analytics	3
BUS275	Data Mining Analytics	3
BUS461	Project Management for Business	3
BUS377	Business Intelligence	3
ECON420	Advanced Economic Statistics & Forecasting	3
Concentration 3: Elective Courses		3
Choose one course from the following:		
BUS240	Foundations of Supply Chain Management	3
BUS340	Enterprise Risk Management & Insurance	3
ECON390	Independent Research	3

ECON421	Econometrics	3
MKT342	Marketing Research	3
Concentration 4: Logistics and Supply Chain Management		
Concentration 4: Required Courses		15
BUS240	Foundations of Supply Chain Management	3
BUS365	Materials and Inventory/Production Control	3
BUS366	Transportation Management	3
BUS367	Logistics Management	3
BUS369	International Supply Chain Management	3
Concentration 4: Elective Courses		3
Choose one course from the following:		
BUS368	E-Business Technology	3
BUS371	Supply Chain Modeling	3
BUS372	Strategic Cost Management	3
BUS373	Procurement Management	3
BUS465	Enterprise Resource Planning	3
BUS491	Independent Study	3
ECON340	International Economics	3
ECON390	Independent Research	3
Concentration 5: International Business		
Concentration 5: Required Courses		15
BUS377	Business Intelligence	3
ECON340	International Economics	3
MKT346	International Marketing	3
BUS435	Management of International Corporation	3
BUS445	International Competitiveness	3
Concentration 5: Elective Courses		3
Choose one course from the following:		
BUS240	Foundations of Supply Chain Management	3
BUS311	Human Resource Management	3
BUS367	Logistics Management	3
BUS368	E-Business Technology	3
BUS370	Labor Relations and Collective Bargaining	3
BUS465	Enterprise Resource Planning	3
BUS491	Independent Study in Management	3
ECON390	Independent Research	3
SPAN105***	Intermediate Spanish I	3
FREN105***	Intermediate French I	3
CHIN105***	Intermediate Chinese I	3
Credit Totals		
Total Business program credits		60
Total Core Curriculum credits		30-42
Total free elective credits		18-30
Total credits for the BS in Business Administration		120

Notes:

* ECON 102 may also be taken to fulfill the Flexible Core: Individual and Society requirement.

** BUS 481 may also be taken toward fulfillment of the

College Option Core: Writing Intensive requirement.

*** SPAN 101 and 102, or SPAN 103, or SPAN 104 are prerequisites for SPAN 105. FREN 102 or FREN114 is prerequisite for FREN105. CHIN102 or placement by department is prerequisite for CHIN105. Students interested in taking any other foreign language at an intermediate level may do so in consultation with the departments of Business and Economics and World Languages, Literatures and Humanities. Not open to students with an Associate's Degree unless they have the 101, 102 prerequisites.

PSY 102 is a prerequisite for PSY 251, PSY 252, and PSY 253 and also satisfies the Flexible Core Scientific World requirement

Students who have completed the Required Core: Mathematical and Quantitative Reasoning requirement will be prepared to take all courses in the Business Administration program.

Business Administration (Minor)

HEGIS Number 0506

Business Administration MINOR		15
Required Courses		9
BUS201	Computer Applications in Business	3
BUS283	Business Law I	3
ECON102	Introduction to Microeconomics	3
Choose two (2) courses from the following:		
MKT341	Introduction to Marketing	3
BUS301	Management Theory and Practice	3
ACC101	Principles of Accounting I	4

This minor is not open to students majoring in Accounting, Business Administration, Economics, Aviation Management or Marketing.

Cybersecurity (Minor)

EFFECTIVE FALL 2021		
Minor in Cybersecurity		12
Required Courses		
BUS220	Fundamentals of Cybersecurity	3
BUS286	Digital Technologies in Organizations	3
BUS470	Information System Security Management	3
One courses from the following:		
BUS287	Communities, Social Networks, and Information	3
BUS376	Organizational Knowledge Management	3
BUS377	Business Intelligence	3

Economics (BA)

HEGIS Number 2204

To develop, through teaching and research, professionally knowledgeable and well-informed men and women with critical reasoning, quantitative thinking and problem-solving skills to solve complex problems.

Economics BA		
Required Courses		9
ECON102	Introduction to Microeconomics*	3
ECON103	Introduction to Macroeconomics	3
ECON220	Introduction to Economic Statistics	3
Foundation Courses		21
ECON200	Intermediate Microeconomics	3
ECON210	Intermediate Macroeconomic	3
ECON300	History of Economic Thought	3
ECON311	Money and Banking	3
ECON340	International Economics	3
ECON390	Independent Research**	3
ECON420	Advanced Economic Statistics	3
Concentration 1: General Economics		15
Choose 5 courses from the following:		
ACC101	Principles of Accounting I	3
ACC102	Principles of Accounting II	3
OR		
ACC103	Principles of Managerial Accounting	3
BUS201	Computer Applications in Business	3
BUS283	Business Law	3
FINC321	Principles of Finance	3
ECON310	Public Finance	3
ECON331	Economics of Underdeveloped Areas	3
ECON333	Urban Economics	3
ECON350	Industrial Organization	3
ECON360	Labor Economics	3
ECON361	Economics of Trade Unions and Collective Bargaining	3
ECON421	Econometrics	3
ECON116	Natural Resource Economics and Policy	3

ECON295	Global Environmental Issues	3
ECON305	Economics of Travel and Tourism	3
ECON306	Economics of Forestry	3
ECON316	Sustainable Development	3
ECON419	Environment and Government Regulations	3
Concentration 2: Environmental Economics		24
Required courses		15
ECON116	Natural Resource Economics and Policy	3
ECON295	Global Environmental Issues	3
ECON316	Sustainable Development	3
ECON419	Environment and Government Regulations	3
ECON421	Econometrics	3
Electives: Choose 3 courses from the following		9
BUS491	Independent Study in Management	3
ECON305	Economics of Travel and Tourism	3
ECON306	Economics of Forestry	3
ECON310	Public Finance	3
ECON331	Economics of Underdeveloped Areas	3
ECON333	Urban Economics	3
Credits Totals		
Total Economics program credits		45-54
Total Core Curriculum credits		36-42
Total free elective credits		24-39
Total credits for the BA in Economics		120

* ECON 102 may also be taken to fulfill the Flexible Core: Individual and Society.

**ECON 390 may also be taken toward fulfillment of the College Option Core: Writing Intensive requirement.

- Students who have completed the Required Core: Mathematical and Quantitative Reasoning requirement will be prepared to take all courses in the Economics program.

Economics (Minor)

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

Information Systems Management (BS)

HEGIS Number 0507

The Information Systems Program at York College seeks to educate students with an in-depth understanding of all aspects of information systems, and their relationship to the world. Students will combine their technical understanding with their broad-based general education to visualize systems, work in teams, communicate effectively, think analytically and implement solutions.

Information Systems Management BS		
Required courses		13
MATH115	Quantitative Methods for Decision Making*	4
OR		
MATH121	Analytics Geometry and Calculus*	4
ECON102	Introduction to Microeconomics**	3
ECON103	Introduction to Macroeconomics	3
ECON220	Introduction to Economic Statistics	3
Foundation Courses		29
ACC101	Principles of Accounting I	3
BUS286	Digital Technologies in Organizations	3
BUS461	Information Systems Project Management***	3
BUS470	Information System Security Management	4
CS172	Computer Science I	4
CS291	Computer Science II	4
CS292	Introduction to Database Management	4
MATH225	Discrete Mathematical Structures	4
Students will choose from one of two concentrations		
Concentration 1: Information Systems Management		15-18
Choose five (5) courses from the following:		

ACC102	Principles of Accounting II	3
OR		
ACC103	Principles of Managerial Accounting	3
BUS287	Communities, Social Networks and Information	3
BUS353	Human Computer Interaction	3
BUS376	Organizational Knowledge Management	3
BUS377	Business Intelligence	3
BUS460	Information Retrieval	3
BUS465	Enterprise Resources Planning	3
BUS476	Systems Analysis and Design	4
CS261	Data Communication I	4
CS371	Business Programming	4
Concentration 2: Informatics		15
Choose five (5) courses from the following:		
ACC102	Principles of Accounting II	3
OR		
ACC103	Principles of Managerial Accounting	3
BUS240	Foundations of Supply Chain Management	3
BUS285	Business Law and Digital Forensics	3
BUS290	Records Management and Preservation	3
BUS376	Organizational Knowledge Management	3
BUS368	E Business Technologies	3
BUS402	Management Information Systems	3
HPHS201	Health Informatics	3
HPGC102	Public Health	3
HE312	Health Disease	3
Credit Totals		
Total Information Systems Management program credits		57-60
Total Core Curriculum credits		33-42
Total free elective credits		18-30
Total credits for BS in Information Systems Management		120

Notes

*MATH 115 or MATH 121 may also be taken to satisfy the Required Core: Mathematical and Quantitative Reasoning requirement.

** ECON 102 may also be taken to satisfy the Flexible Core: Individual and Society requirement.

***BUS 461 may be taken toward fulfillment of the College Option Core: Writing Intensive requirement.

Marketing (BS)

HEGIS Number 0509

The purpose of the marketing program is to educate students to go into today's dynamic business world as well-prepared college graduates. This program provides a student-centered education approach that will prepare them for challenging careers in marketing fields. At the completion of this program, marketing students will be equipped with knowledge and skills to satisfy the consumer needs and wants, and ensure business profitability.

EFFECTIVE FALL 2021		
Marketing BS		
I. Required Courses		9
ECON102	Introduction to Microeconomics*	3
ECON103	Introduction to Macroeconomics	3
ECON220	Introduction to Economic Statistics	3
II. Common Body of Knowledge		27
ACC101	Principles of Accounting I	3
ACC102	Principles of Accounting II	3
OR		
ACC103	Principles of Managerial Accounting	3
BUS160	Introduction to Business	3
OR		
BUS220	Cyber Security Management	3
BUS201	Computer Applications in Business	3
BUS283	Business Law & Ethics	3
BUS301	Management Theory and Practice	3
FINC321	Principles of Finance	3
BUS348	Production/Operations Management	3
MKT341	Introduction to Marketing	3
III. Marketing Core Courses		18
MKT342	Market Research	3
MKT346	International Marketing	3
MKT347	Consumer Behavior	3
MKT349	Marketing and Societal Well-being	3
MKT355	Digital Marketing	3
MKT483	Marketing Management	3
IV. Marketing Elective Courses		6
Choose two (2) from the following		
BUS240	Foundations of Supply Chain Management	3
BUS302	International Business	3
BUS481	Strategic Management**	3
BUS491	Independent Study in Management	3
ECON390	Independent Research	3
ECON420	Advanced Economic Statistics	3
MKT343	Advertising and Public Relations	3
MKT344	Retail Management	3
MKT345	Principles of Selling	3
MKT348	Service Marketing	3
MKT350	Industrial Marketing	3
MKT351	Sales Management	3
Credit Totals		
Total Marketing program credits		60
Total Core Curriculum credits		36-42

Total Free Elective credits	18-24
Total credits for the BS in Marketing	120

Notes:

* ECON 102 may also be taken to fulfill the Flexible Core: Individual and Society requirement.

** BUS 481 may also be taken toward fulfillment of the College Option Core: Writing Intensive requirement.

Marketing (Minor)

Marketing (Minor)		15
Required Courses		9
BUS201	Computer Applications in Business	3
ECON102	Introduction to Microeconomics	3
MKT341	Introduction to Marketing	3
Electives: (Choose two courses)		6
MKT343	Advertising and Public Relations	3
MKT344	Retail Management	3
MKT345	Principles of Selling	3
MKT346	International Marketing	3
MKT347	Consumer Behavior	3
MKT350	Industrial Marketing	3
MKT351	Sales Management	3

*The Marketing Minor is not open to students with majors in the School of Business and Information Systems Management.

Computer Applications in Business (Minor)

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

FAA Dispatcher (Minor)

EFFECTIVE FALL 2020		
Minor in FAA Dispatcher		
		Crs 16
AVIA100	Private Pilot Ground School	4
AVIA200	Instrument Pilot	4
AVIA300	ATP/ADX Dispatcher Written Exam	4
AVIA400	Dispatcher Practical Exam	4

Mortgage Finance (Certificate Program)

The Certificate Program is designed for returning students who would like to explore careers in the mortgage finance field and for individuals currently working in the mortgage finance field who feel that they need a wider and formal educational background. Students must meet matriculation requirements of the college and must maintain a GPA of 2.0 or better to complete the program. Students wishing to enroll in a certificate program may do so by following the College's admission procedures as described in the York College Bulletin. Currently enrolled

students, York graduates, formerly enrolled students, and transfer students may also qualify for a certificate provided they meet certain requirements.

Mortgage Finance (Certificate Program)		
Required Courses		18
BUS301	Management Theory and Practice	3
FINC325	Real Estate Finance	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 (Minor)

Mortgage Finance (Minor)		
Required Courses		15
All of the following courses:		
FINC325	Real Estate Finance	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

Aviation Management (Certificate Program)

Aviation Management (Certificate Program)		
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

School of Health Sciences and Professional Programs

The School of Health Sciences and Professional Programs at York College is committed to providing you with a world class education that will competently prepare you for your future. The School houses six academic departments: **Health and Human Performance, Health Professions, Nursing, Occupational Therapy, Social Work, and Teacher Education.**

These departments provide an array of York College's bachelor level professional programs that are in great demand in today's work force. These programs include: **Clinical Laboratory Science, Community Health Education, Gerontological Studies and Services, Health Promotion Management, Health Movement Science: Nursing, Physician Assistant, Social Work, and Teacher Education Childhood Education (Grades 1-6) and Secondary Education (7-12), Sciences, Mathematics and Spanish; Health and Physical Education (PK-12).** In addition, the School offers a **dual B.S./M.S. program in Occupational Therapy.** The School's Departments also offer several exciting minor areas of study and extensive programs for students to consider.

Many of the School's professional programs are nationally recognized and accredited by: Accreditation Council for Occupational Therapy (ACOTE), Commission on Education for the Physician Assistant (ARC-PA), Council on Social Work Education (CSWE), the National Accrediting Agency for Clinical Laboratory Science (NAACLS), National Council for Accreditation of Teacher Education (NCATE), and the Accreditation Commission for Education in Nursing (ACEN). If you have received a degree from one of CUNY's community colleges and graduated in good academic standing, the School offers a streamlined transition to many of its baccalaureate degree programs.

The School and its programs are committed to supportive and diverse learning environments, world class faculty-scholars dedicated to supporting student success, and

innovative curricula. Regardless of what major area of study you choose, you will be engaged in courses that are rich in content and strong in teaching. You will find opportunities to interact with faculty and fellow students, and can expect a challenging yet welcoming experience. Many students are engaged in faculty research projects, encompassing such areas as stress, diabetes, health promotion, HIV/AIDS, bilingual education and violence prevention. Students in the professional programs receive 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 provide the necessary support for successful student mastery of a number of important intellectual, social, and career skills for growing personally and professionally as productive citizens for the 21st century.
- To engender student's love of life-long learning, characterized by intellectual curiosity, imagination, and creativity.
- To offer students a solid academic experience in a chosen major area of study that is grounded in current research and practice, and that is built upon a strong foundation in liberal arts.
- To provide students with diverse opportunities for mentoring, research, and internships. To support a learning community where the unique contributions and self-esteem of all its members are highly valued.
- To ensure professional programs maintains good standing with accrediting bodies, and are nationally recognized.
- To invest in the continual development of a diverse, first class faculty that stresses excellence, innovation, and leadership in teaching, research, and service.
- To serve as a multifaceted resource for the greater New York metropolitan community.

Department of Health Professions

Science Building, Room 112
718-262-2823

Beckerman, Bernard, Associate Professor
Brugna, Robert, Associate Professor
Davidson, Emily, Associate Professor
DePalma, Helene, Associate Professor
Herel, Jason, Assistant Professor
Pavletich, Kathleen, Professor
Persaud, Harrynauth, Associate Professor
Shearin-Patterson, Tonya, Assistant Professor
Yuan, Jeanetta, Clinical Professor

Clinical Laboratory Science (BS)

HEGIS Number 1223

Clinical Laboratory Science

Clinical Laboratory Science 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.

Mission Statement

The Clinical Laboratory Science Program at York College has been structured to provide students with an education that encompasses liberal arts and basic science requirements. It is our mission to prepare students to become competent clinical laboratory scientists with knowledge, skills, and attitudes assumed by professionals as members of the health care team.

Program Goals

- Provide a learning experience for students in the field of laboratory sciences.
- Provide students with appropriate courses and internship training in order to qualify for NYS licensing and national certification exams.
- Prepare students to work in large institutions, point of care testing sites and research laboratories as a knowledgeable member of the healthcare team.
- Have students graduate with cognitive and psychomotor skills that will allow them to become responsible professionals as they perform laboratory procedures with precision and accuracy, and complete their studies with distinct entry-level competencies.
- Have students develop a personal philosophy incorporating legal and ethical standards that govern the practice and management of a diagnostic laboratory.
- Have students assume responsibility for their continuing education and prepare them academically for graduate school.

- Prepare students with critical thinking skills to develop and assess research projects, including the math skills to present, interpret and evaluate project data and statistics.

Eligibility for Admission to the Upper Division and Clinical Portion of the Clinical Laboratory Science Program:

Students must apply for admission to the upper division and clinical portion of the Clinical Laboratory Science program. To be eligible for admission, students are required to have:

1. Overall GPA of at least 2.5
2. Successful completion of the following courses: Biology 201, Biology 202, and Biology 265, Chemistry 108, Chemistry 109, Chemistry 111, Chemistry 112, Chemistry 230, Chemistry 235, Chemistry 237, and Chemistry 241 with a minimum grade of "C." Students may repeat a maximum of two prerequisite science courses to earn a grade of C or above, and no prerequisite science may be taken more than twice to earn a grade of C or above.
3. Required science courses taken more than 10 years prior to admission to the CLS program cannot be used for transfer credits
4. Matriculation at York College
5. Completion of all York College Pathways (or General Education) requirements
6. It is **required** that all students begin the three-part vaccination program for Hepatitis B **prior to** starting the CLS courses. Proof of vaccination for Hepatitis B must be submitted prior to registering for CLS courses.

Students denied admission to the CLS program may reapply only once.

Transfer students:

All those having completed an Associates or Bachelor's degree program will be given any applicable transfer credit for the general education/Pathways courses as per the Registrar's Office evaluation. (there may be some additional Pathways courses required - please see the College Bulletin for details). All science courses deemed equivalent by the Registrar's Office and completed within the past 10 years with a grade of C or higher will be given transfer credit. Those entering with an AAS degree from Bronx Community College may receive credit for MLT courses with greater than C as follows:

Bronx Community College	York College
BIO 82	CLS 252 Introductory Hematology/Phlebotomy
BIO 83	CLS 351 Clinical Chemistry
BIO 44	CLS 357 Clinical Bacteriology
BIO 86	CLS 343 Immuno-Hematology
BIO 85	CLS 341 Clinical Immuno-Serology
BIO 90	CLS 459 Clinical Internship I

Admissions Process:

- Formal application to the program is required in order to begin the professional phase classes (CLS classes)
- Application forms are available in the CLS office (SC-004) or by calling the office at 718-262-2747. Applications are provided to students who are in the last semester of prerequisite courses
- The due date for applications is April 1st for the Fall semester and November 1st for the Spring semester. Completed applications should be returned to the CLS office (SC-004)
- A letter acknowledging admission or denial will be sent by June 30th for the Fall semester or January 21st for the Spring semester.
- All of the above prerequisite courses and requirements must be completed for entry into the professional phase. If a student is given permission to enroll in CLS classes pending completion of prerequisite courses, but does not complete them or does not maintain the required cumulative GPA (2.5), they will be deregistered from the CLS classes (this process will take place in January for the Spring semester and in August for the Fall semester).

Please Note:

The average student spends five semesters in this program. However, due to high course demand and limited class size for laboratory sections, a student may be unable to enroll in their first choice of courses. The schedule for advisement and registration is arranged in such a fashion that students closest to graduation are given first priority for scheduling courses still needed. Those who are newly accepted or conditionally accepted will be the last on the schedule and may be "closed out" of CLS classes for that initial semester in the program.

Placement for an internship cannot be guaranteed. If the number of eligible candidates exceeds the number of available training sites, every effort will be made to engage additional diagnostic labs in an affiliation agreement. Otherwise, those with the highest GPAs will be placed first. In the rare instance where students are not placed, they will have first priority in the following semester. If a hospital or lab faces closure, the interns will be allowed to finish the current rotation and then the intern will be reassigned to another training site. Internships are provided only by contractually affiliated diagnostic labs and are completed during the day shift only. Some hospitals will require a background check and a drug screen and the cost may not be covered by the hospital.

Clinical Laboratory Science Program Technical Standards

The technical (non-academic) standards established by the program require evidence of the "essential functions" that the students must be able to accomplish in the program. Essential functions include requirements that

students be able to engage in educational and training activities in such a way that will not endanger other students or the public including:

Standards and Functions

1. **Vision**
The student must be able to read charts and graphs, read instrument scales, discriminate color, read microscopic materials and record results.
2. **Speech and hearing**
The student must be able to communicate effectively and sensitively in order to assess non-verbal communication and be able to adequately transmit information to all members of the health care team.
3. **Fine motor functions**
The student must process all skills necessary to carry out diagnostic procedures, manipulate tools, instruments and equipment. Must be able to perform phlebotomy safely and accurately.
4. **Psychological Stability**
The students must possess the emotional health required for full utilization of the applicant's intellectual abilities. Must be able to function in stressful emergency situations, and take appropriate action.

Retention in the Clinical Laboratory Science Program

To be retained in the program, students must:

1. Earn a minimum grade of "C" in each Clinical Laboratory Science course. No Clinical Laboratory Science course may be attempted more than twice without departmental permission. (A W or WU counts as an attempt.)
2. Maintain a cumulative GPA and a major GPA of at least 2.5 (includes all Clinical Laboratory Science courses, and all prerequisite Biology and Chemistry courses).
3. Complete all degree requirements within four years of the date of admission to the upper division and clinical portion of the Clinical Laboratory Science program.

Eligibility for Internship

To be eligible for CLS 459 and 460, students must:

1. Have completed all required CLS courses
2. Maintain a GPA of at least 2.5 in major science courses and overall
3. Have the written permission of the CLS Director

Clinical Laboratory Science BS		
Major Discipline Requirements		83
Required Basic Science Courses		35
BIO201	Principles I	4
BIO202	Principles II	4
BIO265	Clinical Microbiology	3
CHEM108	Principles of Chemistry I	3.5
CHEM109	Principles of Chemistry I Laboratory	1.5
CHEM111	Principles of Chemistry II	3.5

CHEM112	Principles of Chemistry II Laboratory	1.5
CHEM230	Essentials of Organic Chemistry	3
CHEM235	Laboratory in Organic Chemistry	2
CHEM237	Toxicology	3
CHEM241	Instrumental Methods of Analysis	3
HPGC102	Public Health	3
Required Clinical Laboratory Sciences Courses		38
CLS252	Introduction to Hematology & Phlebotomy	3
CLS330	Human Anatomy and Physiology for Clinical Lab Scientists	3
CLS332	Tissue Techniques	2
CLS341	Clinical Immunoserology	2
CLS343	Immuno-Hematology and Blood Banking	3
CLS351	Clinical Chemistry	4
CLS352	Advanced Hematology	3
CLS353	Medical Mycology & Parasitology	3
CLS354	Coagulation	3
CLS357	Clinical Bacteriology	4
CLS358	Diagnostic Techniques in Molecular Pathology	3
CLS361	Urinalysis and Body Fluids	3
CLS362	Seminar for Professional Issues in Clinical Lab Sciences	2
Internship		10
CLS459	Internship for Clinical Lab Sciences	5
CLS460	Internship for Clinical Lab Sciences	5

For a suggested four-year plan to complete the Pathways and Major requirements, please see the Clinical Lab Science Degree Map [See page 0].

Clinical Laboratory Sciences Hospitals Available for Student Internships

- Brookdale Hospital, Brooklyn
- Core-North Shore LIJ Health Systems, (Multiple Facilities)
- Elmhurst Hospital, Queens
- Flushing Hospital Medical Center, Queens
- Harlem Hospital, Manhattan
- Jacobi Medical Center, Bronx
- Jamaica Hospital, Queens
- James J. Peters VA Medical Center, Bronx
- Lenox Hill Hospital, Manhattan
- Lincoln Medical Center, Bronx
- Long Island Jewish Medical Center, Nassau County
- Memorial Sloan-Kettering Cancer Center, Manhattan
- Montefiore Medical Center, Bronx
- North Central Hospital, Bronx
- North Shore University Hospital, Nassau County
- St. Barnabas Hospital, Bronx
- SUNY Downstate Medical Center, Brooklyn

The National Accrediting Agency for Clinical Laboratory Science (NAACLS) Board of Directors has awarded continuing initial accreditation for ten years effective 2020 to 2030 to York College of CUNY's Clinical Laboratory Science Program.

National Accrediting Agency for Clinical Laboratory Science (NAACLS)

(773) 714-8880
5600 N. River Road
Rosemont, IL 60018
www.naacls.org^[59]

Outcomes Assessments

Achieved ASCP certification as first-time examinees:

Year	Percentage
2017/18	89%
2018/19	79%
2019/20	84%

Three-year average pass rate of 84%

Job placement as reported in a survey:

Year	Percentage
2017/18	92%
2018/19	100%
2019/20	100%

Three-year average placement rate of 98%

Graduation/Attrition

Students slated to graduate	Graduation	Attrition
2018/19	100%	0%
2019/20	100%	0%
2020/21	100%	0%

Health Science (BS)

HEGIS Number 1299.10

Description of the Major

The Health Science curriculum lets students explore many areas of health care. This interdisciplinary program will prepare students to understand, manage, and respond to the new and evolving health care environment in a wide range of settings such as hospital or nursing home administration, health insurance, health informatics, or health marketing. This major is also appropriate for students interested in pursuing admission into graduate programs for careers in clinical health professions, public health, and/or research.

Mission

The Health Science major will prepare students to serve as expert, committed, culturally competent professionals with a focus on patient care, healthcare delivery, and

59. <http://www.naacls.org>

healthcare management. This will occur through both classroom education and experiential opportunities in the workplace.

Major Program Goals/Competencies

Graduates in the Health Science major will be able to:

1. Develop a strong knowledge base regarding biomedical science, health data and quality management, health informatics, and information technology.
2. Obtain appropriate systems-based practice tools and protocols in medical, public health, and healthcare management settings.
3. Develop the critical thinking and information-mining skills necessary to become lifelong learners.
4. Produce well-founded, statistically sound analyses of health interventions, programs and policies.
5. Utilize expert communication and collaborative skills.
6. Exhibit consistently ethical and professional behavior in health care environments.
7. Formulate a vision for the future practice of health care and implement plans to realize that vision in the surrounding community.

Progression in the Program

This field of study provides a unique opportunity for students to explore many areas of health science - such as health policy, administration, informatics, management, public health, and other science-based health related professions.

Students planning to pursue graduate study should collaborate closely with a department advisor early in their academic careers to identify admission requirements and plan course selection accordingly. A minimum GPA of 3.0, strong performance on the Graduate Record Examination (GRE), and strong performance in certain prerequisite courses is required for admission to many health related master's degree programs.

Health Science BS		
Major Requirements		44
GERO101	Introduction to Gerontology I	3
HPGC101	Basic Concepts of Health Professions	2
OR		
HE201	Foundations of Health and Wellness	2
HPGC102	Public Health	3
OR		
HE312	Health and Disease	3
HS105	Medical Terminology	2
HPGC201	Epidemiology	3
HS201	Health Informatics	3
HS211	Marketing in Health Care	3
HS302	Health Policy	3
HS303	Nursing Home Administration	3
HE314	Nutrition and Health	2
HS401	Field-Based Experience in Health Science I	4

HS402	Field-Based Experience in Health Science II	4
PHIL102	Beginning Informal Logic	3
OR		
PHIL103	Introduction to Philosophy	3
PHIL308	Healthcare Ethics	3
WRIT303	Research and Writing for Professional Programs	3
Program Electives		
Students must choose 12 credits (200-level and above) in one of the following subjects: BIO, BUS, CHEM, ECON, MATH, PHYS, PSY, SOC		
Credit Totals		
Total Health Science Program credits		56
Total Core Curriculum credits		36-42
Total free elective credits		22-28
Total credits for the BS in Health Science		120

Notes:

1. HPGC 102 or PHIL 102 may also be taken to fulfill the Pathways Flexible Core: Scientific World requirement.
2. PHIL 103 may also be taken to fulfill the Flexible Core: Individual & Society requirement.
3. Students who have already taken WRIT 301, WRIT 302, or WRIT 304 may substitute that course for WRIT 303.
4. WRIT 303 and HS 401 may also be taken to partially fulfill the College Option Core writing requirements.
5. Student and advisor should select a specific cohort of courses based on post graduation interests. Students who want to pursue graduate study in one of the sciences must see an advisor in the science discipline of interest.

Notice to Students on Criminal Background Checks and Drug Testing

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 admission to our degree program, 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.

Some clinical rotation sites may also require that students submit to a drug test as a condition of their participation. Students will be responsible for the cost of this testing. Refusal to have a test may result in an inability to complete the rotation and possibly the professional program.

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 or drug test (or due to refusal to submit to a drug test), 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 a program offered by the Department of Health Professions at York College, as 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.

Health Science 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 and Bronx, 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
- Brookdale Hospital, Brooklyn NY
- Premiere Pediatrics of New York, Staten Island, NY
- Elmhurst Hospital Center, Elmhurst, NY
- Long Island Jewish Medical Center, Various locations
- Morris Heights Health Medical Center, Bronx, NY
- Emergency Medical Care, Manhattan, NY

Undergraduate Articulation:

- CUNY's Queensborough Community College (A.S. Health Science)

Graduate Articulation:

- University of Bridgeport's Graduate School of Health Sciences

Department of Health and Human Performance

**Health & Physical Education Building, Room 201
718-262-5100**

Ajuluchukwu, David, Associate Professor

Barley, Linda, Professor and Chair

Brodsky, Mitchell, Associate Professor

Costley, Alex, Associate Professor

Grosskopf, Nicholas, Professor

McNickle, Reinold, Lecturer

Werber, Galila, Associate Professor

In keeping with the College's mission and vision, the Department of Health and Human Performance is dedicated to providing high-quality education and career preparation, responding to the needs and interests of our student body and to the surrounding community it serves. It is committed to academic excellence, with a focus on the dignity and worth of each individual.

The Department, through its community of scholars and practitioners, working in an atmosphere of support and concern, provides educational opportunities via excellence in teaching, professional advisement and counseling, development and support of innovative curricula, and independent study and research.

The Department accomplishes its mission by utilizing a multi-disciplinary approach that ensures a well-rounded education. The emphasis is on student-centered instruction, experiential learning, and internships at nationally-recognized institutions and in public and community environments.

Community Health Education (BS)

HEGIS Number 0837

The Community Health Education program is designed to prepare the student to be a specialist skilled in planning and implementing programs that enhance health awareness. This multidisciplinary program facilitates the involvement of individuals, communities, and community-based organizations to promote well-being, improved health status and positive health behaviors.

Program Goals

1. Students will demonstrate an understanding of behavioral theories and how it impacts health.
2. Students will be able to demonstrate a core understanding of wellness.
3. Students will become qualified Community Health Educators.

Community Health Education BS	
Required Courses	51
I. Required Courses	6

BIO120	Principles of Inheritance and Human Reproduction	3
OR		
BIO140	Human Biology	3
WRIT303	Research and Writing for Professional Programs	3
II. 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
III. Elective Major Discipline Courses		12
Please choose twelve (12) credits from among the following:		
GERO301	Wellness and The Elderly	3
HE200	Basic Cardiac Life Support	1
HE211	Stress and Health	2
HE241	Sex and Sexuality	3
HE312	Health, Communities, & Society	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	Substance Use Disorder	3
PE358	Physiology of Exercise	3
HE365	Research & Writing in Health and Physical Education	3
HE420	Alcohol & Substance Use Counseling	3
HE450	Practicum in Health Education	2
HE452	Cardiovascular Fitness	3
PH201	History & Principles of Public Health	3
PH210	Epidemiology for Public Health Practice	3
PH215	Social & Behavioral Determinants of Health	3
PH225	Principles & Practices of Health Behavior Change	3
PH285	Health Equity & Cultural Responsiveness	3
PH320	Applied Biostatistics in Public Health	3
PH330	Public Health Policy & Management	3
PH340	Environmental & Occupational Health	3
PH343	Sexual & Gender Minority Health Perspectives	3
IV. Psychology Electives		6
Select two from the following:		
PSY215	Human Development I: Infancy/Childhood	3
PSY216	Human Development II: Adolescence/Maturity	3
PSY283	Psychology of Death and Dying	3

PSY232	Social Psychology	3
PSY238	Abnormal Psychology	3

Notes:

1. BIO 120 may also be taken to fulfill the Flexible Core: Scientific World requirement. BIO 140 may also be taken to fulfill the Required Core: Life & Physical Sciences requirement.
2. WRIT 303 may also be taken to fulfill the College Option Writing requirement.
3. While GERO 101 is a prerequisite for GERO 301, students may enroll in the course with department permission.

Gerontological Studies and Services (BS)

HEGIS Number 2299.01

Mission

The Gerontological Studies and Services degree program is an interdisciplinary and interdepartmental program that provides an opportunity for students to develop a compassionate and constructive view of older adults and the processes and challenges of aging. It prepares students to assume leadership positions in the planning, implementation, and evaluation of geriatric health education programs and the delivery of services to older adults and their families. Graduates of this program will be prepared to continue their education at the graduate level, or to enter employment in their chosen field.

Program Goals

1. Utilize gerontological frameworks to examine human development and aging.
2. Relate biological theory and science to understanding senescence, longevity and variation in aging.
3. Relate social theories and science of aging to understanding heterogeneity and inequality in the context of aging.
4. Distinguish factors related to aging outcomes, both intrinsic and contextual, through critical thinking and empirical research.

Learning Objectives and Competencies

1. To demonstrate knowledge of aging processes and adult growth and development.
2. To assess and prioritize the health, psycho-social, environmental, and program needs of community-based older adults.
3. To interpret policies and procedures of entitlement and need-based programs for older adults.
4. To demonstrate culturally-responsive communication and helping skills.
5. To plan effective gerontological health-education programs.
6. To implement gerontological health-education interventions.

7. To assess the effectiveness of educational and other programs serving the needs of older adults and their families.
8. To effectively communicate with and advocate on behalf of older adults.
9. To demonstrate reflective professional development.

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 field. The Field Work component permit 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 and Services BS		
Major Requirements		26
GERO101	Introduction to Gerontology I (Interdisciplinary)	3
GERO201	Intermediate Gerontology	3
GERO210	Alzheimer's Disease and Related Dementias	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
PSY283	Psychology of Death and Dying	3
SCWK203	Social Welfare Programs	3
Skills Requirements		18
HE200	Basic Cardiac Life Support	1
HE223	Health Behavior	2
HE224	Laboratory in Health Behavior	1
HE321	Health Counseling	3
HE331	Program Planning	3
HE481	Organization and Administration of Health Education	3
PE353	Physical Activity for Special Populations	2
SCWK300	Generalist Social Work Practice I and Skills Lab	3
Elective Requirements		6
Choose two courses from the following		
ANTH302	Human Aging Cross-Culturally	3
BIO283	Biology of Aging	3
HE365	Research and Writing in Health and Physical Education	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.

Required Courses		15
Required Major Discipline Courses		
GERO101	Introduction to Gerontology I (Interdisciplinary)	3
GERO201	Intermediate Gerontology	3
GERO301	Wellness and the Elderly	3
Elective Requirements (Select two courses from the following):		
ANTH302	Anthropology of Aging	3
BIO283	Biology of Aging	3
GERO210	Alzheimer's Disease and Related Dementias	3
PE322	Recreation, Organization, and Leadership	3
POL273	Politics of Aging	3
PSY280	Psychology of Geriatrics	3
PSY283	Psychology of Death and Dying	3
PSY381	Psychological Consequences of Chronic Disability	3
SOC236	Sociology of Aging	3

Health Education (Minor)

EFFECTIVE FALL 2021		
Required Courses		14
Required Minor Discipline Courses		8
HE201	Foundations of Health and Wellness	2
HE219	Health Services	3
HE223	Health Behavior	2
HE224	Laboratory in Health Behavior	1
Elective Requirements Select six credits from the following:		6
HE200	Basic Cardiac Life Support	1
HE211	Stress and Health	2
HE241	Sex and Sexuality	3
HE312	Health, Communities, & Society	3
HE314	Nutrition and Health	2
HE316	Family Health	3
HE317	First Aid and Safety Education	2
HE321	Health Counseling	3
HE341	HIV/AIDS: Public Health Implications	3
HE342	Substance Use Disorder	3

Health Education PreK-12 (BS)

HEGIS Number 0837

Mission

The Health Education pK-12 program's mission is to prepare Health Education Teacher Educators (HETE) who have demonstrated mastery of the necessary content knowledge, content pedagogy, health enhancing skills and professional dispositions needed to support student learning.

Program Goals

1. HETE candidates demonstrate the knowledge and skills of a health literate educator.
2. HETE candidates assess needs to determine priorities for school health education.
3. HETE candidates plan effective, comprehensive school health education curricula and programs.
4. HETE candidates implement health education instruction.
5. HETE candidates assess student learning.
6. HETE candidates plan and coordinate a school health education program.
7. HETE candidates serve as a resource person in health education.
8. HETE candidates communicate and advocate for health and school health education

Students planning to seek New York State teaching certification in Health Education are required to file an application for admission form in the Department of Teacher Education 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 Health Education major is designed to prepare students to teach health education grades PreK-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 Health Education are prepared to enter graduate programs in health education and related fields

EFFECTIVE FALL 2021		
Health Education PreK-12 BS		
I. Health Education PreK-12 Requirements		48
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, Communities, & Society	3
HE314	Nutrition and Health	2
HE315	Consumer Health	2
HE316	Family Health	3
HE321	Health Counseling	3
HE331	Program Planning	3

HE342	Substance Use Disorder	3
HE363	Measurement and Evaluation in Health and Physical Education	3
HE481	Organization and Administration of Health Education	3
BIO120	Principles of Inheritance and Human Reproduction	3
OR		
BIO140	Human Biology	3
BIO281	Human Structure and Function	4
5 Additional HE or PH Credits at the 200 Level or Above.		5
II. Teacher Education Requirements		45
A. Required Core Curriculum Courses		
	At least one Foreign Language course	3
B. Support Courses		15
ENG126	English Composition II: Writing About Literature	3
PHIL202	Major Ideas and Issues in Education	3
OR		
SOC202	Major Ideas and Issues in Education	3
MATH111	Introduction to Statistics and Probability	4
EDUC230	Teaching with Multimedia Technology	2
EDUC280	Child and Adolescent Development for Teachers	3
C. Professional Sequence		19
EDUC268	Bilingual and English Language Learner (ELL) Education	3
EDUC283	Educational Psychology: Effective Teaching and Learning in Diverse Classroom	3
EDUC285	Introduction to Special Education	3
EDUC340	Literacy Instruction Inside Middle and Secondary Schools for English Only (EO) and English Language Learners (ELL's)	3
EDUC395	Curriculum and Methods in Subject Specific (K-12) Educations I: Learning Goals and Assessments	3
EDUC397	School Health Curriculum and Methods PreK-12	4
D. Student Teaching and Student Teaching Seminar		8
EDUC403	Capstone Clinical Experience & Seminar for Health Education or Physical Education, Grades K-6	4
EDUC404	Capstone Clinical Experience & Seminar for Health Education or Physical Education, Grades 7-12	4
Credit Totals		
Total Program credits		93
Total Core Curriculum credits		27
Total free elective credits		0
Total credits for the BS in Health Education, Pre-K-12		120

Notes:

1. EDUC 340 or HE 331 may also be taken toward fulfillment of the College Option Core: Writing Intensive requirement.

2. BIO 120 is a prerequisite for BIO 281 and fulfills the Flexible Core: Scientific World requirement. BIO 140 may also be used as a prerequisite for BIO 281 and fulfills the Life & Physical Sciences requirement.
3. Foreign Language is a NYS requirement and may also be taken toward fulfillment of the College Option Core: Foreign Language requirement. Students may be required to take a second Foreign Language course to complete the Core requirement.
4. Students won't be allowed to continue to take courses in Professional Sequence without a GPA of 3.0 in the Support Courses block.
5. ENG126 also fulfills the Required Core: English Composition requirement.
6. MATH 111 is a prerequisite for HE 363 and fulfills the Required Core: Mathematical and Quantitative Reasoning requirement.

*Proof of current First Aid/CPR certification is required.

Health Promotion Management (BS)

HEGIS Number 0837

Mission

The Health Promotion Management program's mission is to prepare students to be specialists skilled in planning and implementing programs that enhance health awareness and the well-being of individuals, groups, communities in the workplace, communities, and health organizations.

Program Goals

1. Students will demonstrate competence in assessing individual, group, worksite, and community needs for health promotion and health education.
2. Students will demonstrate competence in planning effective evidence based health promotion programs.
3. Students will be able to demonstrate competence in implementing health promotion and education programs
4. Students will understand the basis be able to demonstrate competence in developing health education programs in the workplace and community.
5. To prepare health education specialists who can understand economics.

Health Promotion Management BS		
Major Discipline Requirements		48
Required Major Discipline Courses		
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	Substance Use Disorder	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	Worksite Wellness	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

* Please be aware that some courses may have additional prerequisites.

Movement Science (BS)

HEGIS Number 0835

Mission:

The Movement Science Major in the Department of Health and Human Performance at York College is dedicated to providing a rigorous and informative environment that promotes education and practical applications of exercise science, in order to maintain and enhance physical performance, fitness, health, and quality of life.

Program Goals:

1. Students will be able to demonstrate knowledge of principles of physical fitness and the importance of lifelong physical activity.
2. Students will be able to administer and interpret health-related physical fitness assessments.
3. Students will be able to develop and implement individualized fitness programs.
4. Students will be able to utilize exercise counseling and behavioral techniques to optimize exercise programs.
5. Students will be able to demonstrate knowledge of organizational and administrative techniques for running an exercise-related facility.
6. Students will be able to demonstrate professional competencies in an internship experience.

Accreditation

The Movement Science major demonstrates academic excellence as the first in CUNY to obtain accreditation by the Commission on Accreditation of Allied Health Education Programs^[60]

Description of the Profession:

Graduates of the Movement Science program are trained to assess, design, and implement individual and group exercise and fitness programs for individuals who appear healthy and those with controlled disease. They are skilled in evaluating health behaviors and risk factors, conducting fitness assessments, writing appropriate exercise prescriptions, and motivating individuals to modify negative health habits and maintain positive lifestyle behaviors. A Movement Science graduate demonstrates competence as a leader in health and fitness programs in university, corporate, commercial, and community settings, where clients participate in health promotion and fitness-related activities.

Movement Science BS		
I. Required Courses		11
BIO120	Principles of Inheritance and Human Reproduction	3
OR		
BIO140	Human Biology	3
BIO281	Human Structure and Function	4
MATH111	Introduction to Statistics and Probability	4
II. Required Major Discipline Courses		49
A. Skills Courses		3
PE141	Weight Training	1
Select any two (2) credits from among the following:		
Any 100-200 level Physical Education course except PE 291, 292, 293, 294		
PE311	Creative Rhythms and Dance for Children	2
PE312	Educational Gymnastics for Children	1
PE313	Games and Sports for Children	1
B. Foundation Courses		46
HE314	Nutrition and Health	2
MS322	Recreation, Organization, and Leadership	3
MS375	Biomechanics	3
MS487	Adult Fitness Programs	3
MS488	Field Work in Movement Science I	2
MS489	Field Work in Movement Science II	2
MS490	Certified Exercise Physiologist Workshop	1
MSSR310	Introduction to Sport Rehabilitation and Sport Medicine	3
PE150	Fitness for Living	2
PE215	Basics of Motor Development and Motor Learning	3
PE350	Principles and Foundations of Physical Education	2
PE353	Physical Activity for Special Populations	2
PE358	Physiology of Exercise	3
PE361	Sport Psychology and Coaching	3
PE362	Kinesiology	3
PE363	Measurement and Evaluation in Health and Physical Education	3
PE365	Research and Writing in Health and Physical Education	3

60. <http://www.caahep.org/>

PE452	Cardiovascular Fitness	3
Proof of valid First Aid and CPR certifications.		
Credit Totals		
Total Movement Science Program credits		60
Total Core Curriculum credits		33-42
Total free elective credits		18-27
Total credits for the BS in Movement Science		120

Notes

1. BIO 120 may also be taken to fulfill the Flexible Core: Scientific World requirement.
2. BIO 140 may also be taken to fulfill the Required Core: Life and Physical Sciences requirement.
3. BIO 234 and 235 may be substituted for BIO 281.
4. MATH 111 may also be taken to fulfill the Required Core: Mathematical & Quantitative Reasoning requirement.
5. PE 365 may also be taken toward fulfillment of the College Option Core: Writing Intensive requirement.
6. Requirement for First Aid and CPR certifications can be fulfilled by taking HE 200 and HE 317, or through external certification

Physical Education PreK-12 (BS)

HEGIS Number 0835

York College Physical Education PreK-12 Mission Statement

The York College Physical Education PreK-12 Program enables Physical Education Teacher Candidates (PETCs) to utilize content knowledge, content pedagogy, physical skills, and professional dispositions to develop learning environments that support psychomotor, cognitive, and affective learning domains, and include state and national physical education standards. Professional preparation for PETCs is guided by lesson and unit planning and implementation for the classroom/athletic setting that incorporate student diversity, technology, assessment, class management, and reflective practices. Through clinical experiences in New York City schools, PETCs develop competencies that positively impact student learning in the NYC Public Schools (PreK-12)

Program Goals:

1. Content and Foundational Knowledge: Physical education candidates demonstrate an understanding of common and specialized content, and scientific and theoretical foundations for the delivery of an effective preK-12 physical education program.
2. Skillfulness and Health-Related Fitness: Physical education candidates are physically literate individuals who can demonstrate skillful performance in physical education
3. Planning and Implementation: Physical education candidates apply content and foundational knowledge to plan and implement developmentally appropriate

learning experiences aligned with local, state and/or SHAPE America's National Standards and Grade-Level Outcomes for K-12 Physical Education through the effective use of resources, accommodations and/or modifications, technology and metacognitive strategies to address the diverse needs of all students.

4. Instructional Delivery and Management: Physical education candidates engage students in meaningful learning experiences through effective use of pedagogical skills. They use communication, feedback, technology, and instructional and managerial skills to enhance student learning.
5. Assessment of Student Learning: Physical education candidates select and implement appropriate assessments to monitor students' progress and guide decision making related to instruction and learning.
6. Professional Responsibility: Physical education candidates demonstrate behaviors essential to becoming effective professionals. They exhibit professional ethics and culturally competent practices; seek opportunities for continued professional development; and demonstrate knowledge of promotion/advocacy strategies for physical education and expanded physical activity opportunities that support the development of physically literate individuals.

SHAPE America National Standards

Standard 1 - The physically literate individual demonstrates competency in a variety of motor skills and movement patterns.

Standard 2 - The physically literate individual applies knowledge of concepts, principles, strategies and tactics related to movement and performance.

Standard 3 - The physically literate individual demonstrates the knowledge and skills to achieve and maintain a health-enhancing level of physical activity and fitness.

Standard 4 - The physically literate individual exhibits responsible personal and social behavior that respects self and others.

Standard 5 - The physically literate individual recognizes the value of physical activity for health, enjoyment, challenge, self-expression and/or social interaction.

Students planning to seek New York State teaching certification in Physical Education PreK-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 PreK-12. Candidates completing the Program are eligible to apply for New York State initial certification in Physical Education, Grades PreK-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 PreK-12 BS		
I. Physical Education Content Knowledge Courses		30
A. Group I		13
Courses listed in Group I must be completed before taking courses from Group II		
HE210	Health Issues for the Physical Educator	2
HE314	Nutrition and Health	2
PE150	Fitness for Living	2
PE152	Instructional Methodologies of Teaching Sports Skills	2
PE215	Basics of Motor Development and Motor Learning	3
PE350	Principles and Foundations of Physical Education	2
B. Group II		17
PE353	Physical Activity for Special Populations	2
PE358	Physiology of Exercise	3
PE361	Sport Psychology and Coaching	3
PE362	Kinesiology	3
PE363	Measurement and Evaluation in Health and Physical Education	3
PE452	Cardiovascular Fitness	3
II. Physical Education Skills courses		11
Team Sports		4
Choose 4 Credits from the following		
PE151	Basketball	1
PE158	Football	1
PE162	Lacrosse	1
PE163	Softball	1
PE164	Soccer	1
PE165	Volleyball	1
PE186	Team Sports Officiating	1
Dance		1
Choose 1 Credit from the following		
PE173	Folk and Social Dance	1
PE176	Modern Dance I	1
PE183	African Dance	1
PE184	Latin Dance	1
PE185	Hip Hop Dance	1
PE278	Modern Dance II	1
Individual Sports		4
Choose 4 Credits from the following		
PE141	Weight Training	1
PE154	Track and Field	1
PE156	Gymnastics I	1
PE157	Gymnastics II	1

PE159	Self-Defense Activities	1
PE166	Yoga	1
PE167	Handball	1
PE171	Tennis	1
PE174	Golf	1
PE181	Badminton	1
PE271	Competitive Tennis	1
Outdoor Sports		1
Choose 1 Credit from the following		
PE170	Canoeing	1
PE177	Small Boat Sailing	1
PE178	Outdoor Living: Hiking and Backpacking	1
PE179	Skiing	1
PE279	Leadership in Outdoor Living	1
PE280	Winter Mountaineering	1
Aquatics		1
Choose 1 Credit from the Following		
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
Prerequisites		7
BIO281	Human Structure and Function	4
BIO120	Principles of Inheritance and Human Reproduction	3
OR		
BIO140	Human Biology	3
Proof of a valid First Aid/CPR certification should be presented to the department at least three months prior to graduation.		
III. Teacher Education Requirements		45
Students should consult the Admission and Progression Policy for additional requirements. Students should meet with an Education advisor each semester to select classes that meet all requirements.		
A. Required Core Curriculum Courses		
	At least one Foreign Language course	3
B. Support Courses		15
ENG126	English Composition II: Writing About Literature	3
PHIL202	Evolution of Major Ideas and Issues in Education	3
OR		
SOC202	Evolution of Major Ideas and Issues in Education	3
MATH111	Introduction to Statistics and Probability	4
EDUC230	Teaching with Multimedia Technology	2
EDUC280	Child and Adolescent Development for Teachers	3
C. Professional Sequence		19
EDUC268	Bilingual and English Language Learner (ELL) Education	3
EDUC283	Effective Teaching and Learning in Diverse Classrooms	3
EDUC285	Introduction to Special Education	3

EDUC340	Literacy Instruction inside Middle and Secondary Schools	3
EDUC341	Elementary & Secondary Curriculum and Methods II: Instruction and Classroom Environments in Physical Education PreK-12	4
EDUC395	Curriculum and Methods in Subject Specific (K-12) Educations I: Learning Goals and Assessments	3
D. Student Teaching		8
EDUC403	Capstone Clinical Experience & Seminar for Health Education or Physical Education, Grades K-6	4
EDUC404	Capstone Clinical Experience & Seminar for Health Education or Physical Education, Grades 7-12	4
Credit Totals		
Total Program credits		93
Total Core Curriculum credits		27
Total free elective credits		0
Total credits for the BS in Physical Education		120

HE314	Nutrition & Health	2
HE315	Consumer Health	2
HE316	Family Health	3
HE317	First Aid Safety Education	2
HE341	HIV/AIDS: Public Health Implications	3
HE342	Substance Use Disorder	3
PE358	Physiology of Exercise	3
HE420	Alcohol & Substance Use Counseling	3
HE450	Practicum in Health Education	2
HE452	Cardiovascular Fitness	3
HE488	Health Promotion in the Workplace	3
HE495	Independent Study	1
HE496	Independent Study	1
HE497	Independent Study	2
HE498	Independent Study	2
PH215	Social & Behavioral Determinants of Health	3
PH225	Principles & Practices of Health Behavior Change	3
PH285	Health Equity & Cultural Responsiveness	3
PH330	Public Health Policy & Management	3
PH340	Environmental & Occupational Health	3
PH343	Sexual & Gender Minority Health Perspectives	3

Notes:

1. PE 358 has a prerequisite of BIO 281, and BIO 281 has a prerequisite of BIO 120 or BIO 140.
2. Foreign Language is a NYS requirement and may also be taken toward fulfillment of the College Option Core: Foreign Language requirement. Students may be required to take a second Foreign Language course to complete the Core requirement.
3. Students won't be allowed to continue to take courses in Professional Sequence without a GPA of 3.0 in the Support Courses block.
4. ENG 126 also fulfills the Required Core: English Composition requirement.
5. EDUC 340 may also be taken toward fulfillment of the College Option Core: Writing Intensive requirement.
6. MATH 111 also fulfills the Required Core: Mathematical and Quantitative Reasoning requirement.

Public Health (Minor)

Public Health Minor		
Required Courses		15
I. Required Minor Discipline Courses		9
PH201	History & Principles of Public Health	3
PH210	Epidemiology for Public Health Practice	3
PH320	Applied Biostatistics in Public Health	3
II. Elective Minor Discipline Courses		6
GERO210	Alzheimer's & Related Dementias*	2
GERO301	Wellness & the Elderly**	3
HE200	Basic Cardiac Life Support	1
HE211	Stress & Health	2
HE241	Sex & Sexuality	3
HE312	Health, Communities, & Society	3
HE313	Alcohol & Alcoholism	3

Notes: While GERO 210 and GERO 301 have prerequisites, students may enroll in these courses with department permission.

Public Health (BS)

HEGIS Number 1214

Program Mission

The mission of York College's undergraduate public health program is to engage in teaching, learning, scholarship and service to foster and sustain a healthier New York City and to promote culturally responsive, evidence-informed solutions to reduce disparities and promote health and wellness among urban populations.

Program Goals

1. To utilize the concepts and applications of basic statistics.
2. To develop an understanding of the history and philosophy of public health as well as its core values, concepts, and functions across the globe and in society.
3. To illustrate knowledge of the basic concepts, methods, and tools of public health data collection, use, and analysis and why evidence-based approaches are an essential part of public health practice.
4. To analyze the socioeconomic, behavioral, biological, environmental, and other factors that impact human health and contribute to health disparities.
5. To explain the foundations of biological and life sciences and the concepts of health and disease.

6. To apply the concepts of population health, and the basic processes, approaches, and interventions that identify and address the major health-related needs and concerns of population.
7. To describe the underlying science of human health and disease including opportunities for promoting and protecting health across the life course.
8. To exercise the fundamental concepts and features of project implementation, including planning, assessment, and evaluation.
9. To compare and contrast the fundamental characteristics and organizational structures of the US health system as well as the differences in systems in other countries.
10. To evaluate the basic concepts of legal, ethical, economic, and regulatory dimensions of health care and public health policy and the roles, influences, and responsibilities of the different agencies and branches of government.
11. To employ basic concepts of public health-specific communication, including technical and professional writing and the use of mass media and electronic technology.

Background

Public health programs focus primarily on prevention and health promotion (rather than treatment), and on whole populations (rather than individuals). Public health is an essential component of the US health system. Its infrastructure and prevention-based programs, together with clinical health systems, work to improve population health and reduce health care costs among populations. The undergraduate program in public health at York College is focused on the science of protecting and improving the health and well-being of communities.

Reflecting the interdisciplinary approach of the CUNY School of Public Health, students in the major will take courses originating from the various public health core disciplines, including epidemiology, biostatistics, environmental and occupational health, and health management and policy. The community health concentration emphasizes specific training in the assessment, planning, implementation and evaluation of community-based, -focused and -driven public health programs and policies. Aligned with the Council on Education for Public Health (CEPH) accreditation criteria, the major curriculum is multidisciplinary while being rooted in the social and behavioral determinants of health. As students progress through the program, they will gain more breadth and depth in public health practice through field experiences as well as a capstone course in their final year.

Upon completion of the degree, students will be better equipped to complete graduate education in public health or begin working in the field as a public health practitioner. Students will have acquired skills that could be translated into the workplace (city, state or local government

agencies, non-for-profit organizations, etc.) or other post-baccalaureate educational settings such as enrollment in an MPH, MSW, JD or MD program.

Admission Criteria to the Program

At time of admission, a minimum cumulative GPA of 3.0 for all coursework completed; at least 12 credits with a minimum GPA of 3.0 in the following PH courses: PH 201 and PH 210 or PH 215 or PH 225 or PH 320 or PH 330 or PH 340.

Admission to the program will be based on a yearly cohort model of enrollment. A minimum of 33% of available program seats will be reserved for each of the following groups (given sufficient applications submitted): 1) Native York students; 2) Transfer students from CUNY; and 3) Transfer students from outside CUNY (e.g., 30 new program seats; 10 will be reserved for students from each group). Upon admission to the program (usually at the beginning of the third year in a 4year plan), students will be encouraged to attend full-time (if not already).

Retention and Completion Criteria

A minimum GPA of 3.0 in required program courses (including program electives); a minimum cumulative GPA of 3.0.

EFFECTIVE FALL 2021		
Public Health (Community Health Concentration) (BS)		
Required Courses		69
I. Required Courses		10
BIO120	Principles of Inheritance and Human Reproduction	3
OR		
BIO140	Human Biology	3
MATH111	Introduction to Statistics and Probability	4
WRIT303	Research and Writing for Professional Programs	3
II. Required Public Health Major Discipline Courses		18
PH201	History & Principles of Public Health	3
PH210	Epidemiology for Public Health Practice	3
PH320	Applied Biostatistics in Public Health	3
PH330	Public Health Policy & Management	3
PH340	Environmental & Occupational Health	3
PH450	Public Health & Societies	3
III. Required Community Health Concentration Discipline Courses		26
PH215	Social & Behavioral Determinants of Health	3
PH225	Principles & Practices of Health Behavior Change	3
PH325	Assessing Community Health Needs, Capacity & Assets	3
PH335	Planning & Funding for Public Health	3
PH415	Community Health Intervention Design & Methods	3
PH425	Evaluation Methods in Public Health	3
PH435	Field Experience I	2

PH445	Field Experience II	2
BIO281	Human Structure & Function	4
IV. Elective HE/PH/PE/PSY Discipline Courses		15
Choose fifteen (15) credits from the following:		
GERO301	Wellness & the Elderly*	3
HE200	Basic Cardiac Life Support	1
HE211	Stress & Health	2
HE241	Sex & Sexuality	3
HE313	Alcohol Use Disorder	3
HE314	Nutrition & Health	2
HE315	Consumer Health	2
HE316	Family Health	3
HE317	First Aid & Safety Education	2
HE341	HIV/AIDS: Public Health Implications	3
HE342	Substance Use Disorder	3
PE358	Physiology of Exercise	3
HE365	Research & Writing in Health & Physical Education	3
HE420	Alcohol & Substance Use Counseling	3
HE452	Cardiovascular Fitness	3
HE495	Independent Study	1
HE496	Independent Study	1
HE497	Independent Study	2
HE498	Independent Study	2
PH285	Health Equity & Cultural Responsiveness	3

PH343	Sexual & Gender Minority Health Perspectives	3
PSY215	Human Development I: Infancy/Childhood	3
PSY216	Human Development II: Adolescence/Maturity	3
PSY283	Psychology of Death and Dying	3
PSY232	Social Psychology	3
PSY238	Abnormal Psychology	3
Total Public Health Program Credits		69
Total Core Curriculum Credits		33-42
Total Free Elective Credits		9-18
Total Credits for the BS in Public Health		120

Notes:

1. BIO 120 may also be taken to fulfill the Flexible Core: Scientific World requirement. BIO 140 may also be taken to fulfill the Required Core: Life & Physical Sciences requirement.
2. MATH 111 may also be taken to fulfill the Required Core: Mathematical and Quantitative Reasoning requirement.
3. WRIT 303 may also be taken to fulfill the College Option Core writing requirement.
4. While GERO 101 is a pre-requisite for GERO 301, students may enroll in the course with department permission.

Department of Nursing

**Science Building, Room 110
718-262-2054**

Alcindor, Magalie, Assistant Professor

Alexandre, Margaret, Associate Professor

Donahue, Nadine, Associate Professor

Taylor-Haslip, Valerie, Associate Professor

Revised Nursing Programs Admission Policy June 24, 2020

Effective immediately, all CUNY nursing programs will consider applicants for admission who are eligible for licensing in New York under the regulations of the New York State Education Department. The regulation provides eligibility for citizens and non-citizens who are "not unlawfully present," including those with Deferred Action for Childhood Arrivals (DACA) and those permanently residing in the United States under color of law (PRUCOL).

Applicants may demonstrate eligibility through documents that verify that they meet the required criteria. The most common documents include:

1. Proof of U.S. citizenship through a birth certificate, U.S. passport, naturalization certificate, or a certificate of citizenship.
2. Proof of legal permanent resident status with what is known as a "Green Card".
3. Proof of various eligible categories, listed below, generally through an employment authorization document (EAD) or other satisfactory documentation.

Eligible immigration categories:

1. International student with F-1 status
2. Asylee
3. Refugee
4. Temporary Protected Status (TPS)
5. Deferred Action for Childhood Arrivals (DACA)
6. Individuals paroled into the United States whose parole has not expired
7. Persons residing in the U.S. pursuant to an Order of Supervision
8. Persons granted a stay of deportation/removal
9. Persons granted an indefinite voluntary departure
10. Persons on whose behalf an immediate relative petition has been approved
11. Persons who have filed an application for adjustment of status to permanent resident
12. Persons granted Deferred Action Status
13. Persons who entered and have continuously residency in the U.S. before 01/01/1972
14. Persons granted suspension of deportation or cancellation of removal
15. Cuban/Haitian entrants
16. Persons with a pending application for asylum, withholding of removal or deportation, protection under the Convention Against Torture (CAT), cancellation of removal, or TPS

17. Persons in T or U non-immigrant status
18. Self-petitioner under the Violence Against Women Act
19. Other persons living in the U.S. who are not unlawfully present

Mission Statement

The mission of the York College Nursing Program is to offer a liberal arts-based educational experience to guide students in attaining the knowledge, skills, and values essential for professional nurse leaders and managers, including the ability to make sound judgments and address the health needs of diverse cultural groups within the urban community.

Department Goals

1. To offer a liberal arts-based educational experience to promote the knowledge, skills, and values essential for professional nurse leaders and managers.
2. To develop professional nurses who are proactive in addressing health care issues and able to make sound clinical judgments.
3. To prepare professional nurses who are self-directed and effective communicators in a culturally diverse world.
4. To develop nurses committed to evidenced based and ethical care of various populations across the lifespan throughout the health-illness continuum.

Nursing Program Outcomes:

- *Performance on licensure exam (generic program only)* - Generic graduate pass rate will meet or exceed the National NCLEX-RN pass rate on the first attempt.
- *Program Completion* - 80% of generic track students will complete the program in five semesters; and 80% of RN-BS track students in four semesters (100% program length).
- *Program Satisfaction* - 80% of graduates will report satisfaction with the nursing program six months after program completion.
- *Job Placement* - 80% of generic track graduates will be employed as registered nurses six to twelve months after graduation; 80% of RN-BS track graduates, desiring a new position, will attain the position six to twelve months after graduation.

Nursing Terminal Student Learning Outcomes:

1. Effectively communicate with diverse client populations and disciplines using a variety of strategies and respecting client's cultural beliefs and practices.
2. Make sound judgments that synthesize nursing science and knowledge from other disciplines in the provision of safe, quality nursing care.

3. Collaborate with clients, families, health team members to assist clients in achieving optimal wellness.
4. Advocate for health policies that address local and global health issues through participation in nursing organizations.
5. Integrate a personal philosophy of professional nursing practice incorporating legal, moral and ethical standards.
6. Assume responsibility and accountability for one's own education and nursing practice
7. Provide a safe environment using technology and information systems in nursing practice.
8. Effectively manage patient care to ensure best possible health care outcomes.
9. Maintain a spirit of inquiry and use research findings to provide evidence-based nursing care.

***The Baccalaureate Nursing Program consists of two tracks:**

1. The Generic Baccalaureate program in Nursing is designed to prepare competent nursing professionals through the provision of all general education or pathways and professional coursework. Students are enabled to earn a baccalaureate degree in Nursing and qualify to take as well as successfully pass the National Council Licensure Examination for Registered Nurses (NCLEX-RN).
2. The RN-Baccalaureate program in Nursing is exclusively designed to build upon the knowledge and competencies of Registered Nurses (RN), who graduated from associate degree and diploma 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

The accrediting body for the Nursing Programs is the Accreditation Commission for Education in Nursing^[61] (ACEN). For information pertaining to the programs accreditation:

3343 Peachtree Road NE, Suite 850 Atlanta, GA 30326
Phone: 404.975.5000 Fax: 404.975.5020

Eligibility for Screening into the Nursing Programs

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 or Pathways courses and additional prerequisite courses as listed.

Admission Criteria

1. Completion of all required General Education or Pathways and prerequisite credits
2. A minimum grade point average (GPA) of 3.0 in key General Education or Pathways and prerequisite credits - **For Generic program only**
3. A grade of C or better in each General Education or Pathways and Prerequisite course.
4. Completion of all required lower division Writing Intensive (WI) Courses.
5. Current Basic Life Support Certificate (BCLS).
6. New York State Registered Nurse licensure. - **For RN-BS program only**
7. Successful completion of Nursing 203 with a grade of C+ or better - **For RN-BS program only**

An application for admission to the RN to BS program is submitted during the Nursing 203 course. Successful candidates will be notified by the Nursing Program regarding their admission status by June.

Advancing to Nursing Clinicals

In order to advance into nursing clinicals, 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^[62], which provides free counseling and assistance to all CUNY students who need help with their immigration status.

61. <http://www.acenursing.org>

62. <http://web.cuny.edu/about/citizenship.html>

Nursing (BS)

HEGIS Number 1203

York College Nursing RN to BS Program

See Department of Nursing Overview for admissions requirements.

Nursing BS		
Required Core Curriculum Courses		
This program has received a waiver to require that students take the following courses in fulfillment of Core Curriculum requirements. Students who do not take these courses to fulfill Core requirements may not be able to complete the major in 120 credits.		
BIO234	Anatomy and Physiology I*	4
BIO235	Anatomy and Physiology II*	4
CHEM106	Essentials of College Chemistry*	3.5
CHEM107	Essentials of College Chemistry Lab*	1.5
MATH111	Introduction to Statistics and Probability	4
PSY102	Introductory Psychology*	3
PSY214	Lifespan Development for Health Professions	3
	Upper-level Writing Intensive (WI) course	3
Prerequisites Screening and Progression		34-38
BIO234	Anatomy and Physiology I*	4
BIO235	Anatomy and Physiology II*	4
BIO265	Clinical Microbiology	3
BIO382	Human Nutrition	2
CHEM106	Essentials of College Chemistry*	3.5
CHEM107	Essentials of College Chemistry Laboratory*	1.5
CHEM230	Essentials of Organic Chemistry	3
ENG125	English Composition I: Introduction to College Writing*	3
MATH104	College Algebra	3
OR		
MATH120	Pre-Calculus	4
OR		
	Placement by Mathematics into MATH 121	
MATH111	Introduction to Statistics & Probability	4
PSY102	Introduction to Psychology*	3
PSY214	Human Development for Health Professions	3
Transfer Credits Granted to all RNs		31
NURS101	Nursing Process and Pharmacology I	2
NURS310	Nursing Care of the Childbearing client/ Family System	5
NURS320	Adult Health I	7
NURS340	Nursing Care of Children	5
NURS420	Adult Health II	7
NURS430	Psychiatric/Mental Health Nursing	5
Nursing Program Requirements		29
BIO336	Pathophysiology	3
NURS200	Professional Nursing Process	2
NURS203	Health Assessment and Wellness Promotion	4

NURS301	Values in Transition: Perspectives of Professional Nursing (WI)	3
NURS314	Management and Leadership in Professional Nursing / Client Intersystems	3
NURS315	Professional Nurse-Family and Community Intersystems I	5
NURS405	Professional Nurse-Family and Community Intersystems II	3
NURS406	Professional Nurse-Societal and Community Client Intersystems: Emergent Evolution	3
NURS407	Research in Professional Nursing Practice (WI)	3
Credit Totals		
Total Program credits		94-98
Total Core Curriculum credits		21
Total free elective credits		1-5
Total credits for the BS in Nursing		120

Notes:

Courses listed with an asterisk () are used to calculate the GPA for, and to rank, program applicants.

- BIO 234, 235, and PSY 102 also fulfill the Flexible Core: Scientific World requirement.
- CHEM 106 and CHEM 107 are taken as co-requisites. These courses also fulfill the Required Core: Life and Physical Sciences requirement.
- MATH 111 and MATH 120 also fulfill the Required Core: Mathematical and Quantitative Reasoning requirement.
- PSY 214 also fulfills the College Option Core: Health Education requirement. NURS majors are not required to take HE 111, and are required to take PSY 214 in its place.
- Students may take NURS 301 or NURS 407 toward fulfillment of the College Option Core: Writing Intensive requirement.
- ENG 125 also partially fulfills the Required Core: English Composition requirement.
- Students who do not place directly into MATH 121 may have to take up to 4 credits of mathematics as a prerequisite for CHEM 106. These credits may require students to exceed 120 credits to complete the nursing program. Students who place into MATH 121 will not have to take these credits.
- Students must complete NURS 200 and NURS 203 with a grade of C+ or higher in order to continue with the Nursing major requirement sequence.
- The requirement that half of the credits in the major program must be taken at York is superseded by the requirement that 25 nursing credits in the RN- BS Nursing Program must be taken at York.
- The foreign language requirement will be met through specific courses that are designed for the health professions, after placement is determined by the foreign language department.

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

Excelsior College (Regents College)
7 Columbia Circle
Albany, New York 11203
Telephone: (518) 464-8500

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

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

Frequently Requested Information

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

Students are required to complete BIO 382 Human Nutrition. The prerequisite for Human Nutrition (BIO 382) is Chemistry 106 and Chemistry 107 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 106 and Chemistry 107, must see the coordinator of the Chemistry Discipline.

Effective Fall 2013 CUNY/SUNY A.A.S. graduate transfer credits are accepted on a course by course basis. Non-CUNY/SUNY graduates are strongly encouraged to seek advisement from a Department of Nursing faculty member to clarify transfer credits and avoid taking incorrect or unnecessary courses.

Nursing - Generic (BS)

HEGIS Number 1203

Eligibility for Screening into the Generic 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 the five key prerequisite courses noted with an asterisk
3. A grade of C or better in each General Education or Pathways and Prerequisite course.
4. Completion of all required lower division writing intensive (WI) Courses.
5. Current Basic Life Support Certificate (BCLS).
6. Successful score on the NLN pre-admission RN exam (PAX-RN)

Admission to the generic nursing program is highly competitive. The program is designed for full-time study. Students who are interested in the program must meet the requirements for admission to York College. They are required to pass the CUNY Admission Examination in the basic skills areas; reading, writing and mathematics, as well as all required prerequisites science and foundation courses. Admission to the college does not guarantee acceptance to the nursing program. **Students who have failed/ been dismissed from another nursing program are not eligible for admission to York's Program.**

Students must complete the following courses with a minimum of a C grade:

Nursing Generic BS		
Required Core Curriculum Courses		
This program has received a waiver to require that students take the following course in fulfillment of Core Curriculum requirements. Students who do not take these courses to fulfill Core requirements may not be able to complete the major in 120 credits.		
BIO234	Anatomy and Physiology I*	4
BIO235	Anatomy and Physiology II*	4
CHEM106	Essentials of College Chemistry*	3.5
CHEM107	Essentials of College Chemistry Lab*	1.5
MATH111	Introduction to Statistics and Probability	4
PSY102	Introductory Psychology*	3
PSY214	Lifespan Development for Health Professions	3
	Upper-level Writing Intensive (WI) course	3
Prerequisites for Screening and Progression		34-38
BIO234	Anatomy and Physiology I*	4
BIO235	Anatomy and Physiology II*	4
BIO265	Clinical Microbiology	3
BIO382	Human Nutrition	2
CHEM106	Essentials of College Chemistry*	3.5
CHEM107	Essentials of College Chemistry Laboratory*	1.5
CHEM230	Essentials of Organic Chemistry	3
ENG125	Composition I: Introduction to College Writing*	3
MATH104	College Algebra	3
OR		
MATH120	Pre-Calculus	4
OR		

	Placement by Mathematics into MATH 121	
MATH111	Introduction to Statistics & Probability	4
PSY102	Introduction to Psychology*	3
PSY214	Human Development for Health Professions	3
Nursing Program Requirements		63
BIO336	Pathophysiology	3
NURS101	Nursing Process and Pharmacology I	2
NURS204	Health Assessment and Wellness Promotion	4
NURS210	Fundamentals of Nursing Practice	6
NURS301	Values in Transitions: Perspectives of Professional Nursing (WI)	3
NURS302	Pharmacology for Nurses	3
NURS310	Nursing Process: Nursing Care in the Child-bearing Client/Family System (7 weeks)	5
NURS320	Adult Health I	7
NURS340	Nursing Care of Children: Infancy to Adolescence (7 weeks)	5
NURS314	Management and Leadership in Professional Nurse-Client Intersystem	3
NURS406	Professional Nurse-Societal & Community Client Intersystem: Emergent Evolution	3
NURS415	Professional Nurse-Client Intersystem	4.5
NURS420	Adult Health II	7
NURS430	Psychiatric/Mental Health Nursing	4.5
NURS407	Research in Professional Nursing Practice (WI)	3
Credit Totals		
Total Program credits		97-101
Total Core Curriculum credits		21
Total free elective credits		0-2
Total credits for the BS in Nursing		120-122

Notes:

Courses listed with an asterisk () are used to calculate the GPA for, and to rank, program applicants.

- BIO 234, 235, and PSY 102 also fulfill the Flexible Core: Scientific World requirement.
- CHEM 106 and CHEM 107 are taken as co-requisites. These courses also fulfill the Required Core: Life and Physical Sciences requirement.
- MATH 111 and MATH 120 also fulfill the Required Core: Mathematical and Quantitative Reasoning requirement.
- PSY 214 also fulfills the College Option Core: Health Education requirement. NURS majors are not required to take HE 111, and are required to take PSY 214 in its place.
- Students may take NURS 301 or NURS 407 toward fulfillment of the College Option Core: Writing Intensive requirement.
- ENG 125 also partially fulfills the Required Core: English Composition requirement.
- Students who do not place directly into MATH 121 may have to take up to 4 credits of mathematics as a prerequisite for CHEM 106. These credits may require students to exceed 120 credits to complete the nursing program. Students who place into MATH 121 will not have to take these credits.

A minimum grade of C+ is required for all Nursing courses.

Courses listed with an asterisk () are used to calculate the G.P.A. and rank applicants.

Courses listed with a double asterisk () are specific Pathways courses embedded in the major

Note: This program has received a special waiver to specify particular courses students must take in some areas of the Common Core to be eligible to apply for admission to the Nursing program. If students take different courses in these areas, they will be certified as having completed the Common Core areas, but would not have met the preconditions for applying to the Generic Nursing program. Nursing students are waived from Health 111 in the College Option but are required to take Psychology 214 in its place.

Department of Occupational Therapy

Academic Core Building, Room 1E12
718-262-2720

Auremma, Donald, Associate Professor and Chair

Daus, Diana, Assistant Professor

Henry, Elise, Clinical Assistant Professor

Kaplan, Lillian, Associate Professor

Occupational Therapy (BS/MS)

HEGIS Number 1201/1208

Career Description

Occupational therapists help people across the lifespan participate in the things they want and need to do through the therapeutic use of everyday activities (occupations). Common occupational therapy interventions include helping children with disabilities to fully participate in school and social situations, helping people recovering from injury to regain skills, providing supports for older adults experiencing physical and cognitive changes, and helping people with mental illness to lead productive and successful lives.

To further explore the many roles of occupational therapists helping clients live life to its fullest, please visit the AOTA website^[63]. (American Occupational Therapy Association. Retrieved June 27, 2012, from www.aota.org/consumers.aspx)

Mission Statement

To prepare entry-level occupational therapy practitioners to provide services to diverse urban populations, utilizing evidence based education, fieldwork, and community experiences. Graduates will be prepared to grow as passionate, engaged learners, growing in intellectual potential, contributing and participating in the profession through direct service delivery, management of service delivery, and research.

Educational Goals

1. Students demonstrate clinical competencies for entry-level occupational therapy practice.
2. Students demonstrate clinical competencies for entry-level practice measured by scores on the AOTA Fieldwork Level II Performance Evaluation.
3. Students demonstrate knowledge and skills to engage in scholarly activity

Program Philosophy

The York Mission, in the language and form of an educational philosophy state:

"York College enriches lives and enables students to grow as passionately engaged learners with confidence to realize their intellectual and human potential as individuals and global citizens." The Occupational Therapy Program mission is consistent with the York College Mission, in that these two lines of thought emphasize the complexity and dynamic nature of human beings as they learn and develop. Humans interact in varied environments through participation in occupations. Dynamic participation in learning enables individuals to develop the necessary intellectual potential and skills for maturation and self-actualization.

The occupational therapy faculty believes that education is a collaborative process, engaging students as active participants. Faculty provides contexts and learning experiences that are supported by meaningful activities and didactic instruction. The outcome of this education process is a graduate who can synthesize their clinical and academic experiences to become goal-directed, self-reflective, confident general entry-level therapists. York College OT graduates go on to improve the lives of individuals, and the communities they live in with occupational therapy services.

Our goals for our graduates are consistent with both the York College Values and the AOTA Vision. We see our graduates as they go out into the workforce as culturally diverse critical thinkers who can address the needs of a diverse population. In addition, they will continue to engage in ongoing learning, to improve their skills, and contribute to the growth of the profession in practice and/or research in their communities, regionally, nationally and globally.

The Occupational Therapy Program Philosophy and Curriculum seeks to prepare students to:

- Be active learners who utilize analysis and synthesis for critical thinking.
- Have strong professional oral and written communication skills to successfully engage with clients, colleagues, families, and communities.
- Evaluate and apply research findings for evidence-based occupational therapy practice.
- Engage in lifelong learning.
- Develop strong ethical values and practices as occupational therapy practitioners.
- Contribute to the occupational therapy profession and advocate for the profession, our clients, families, and communities.
- Be role models who demonstrate a commitment to the college, community and the profession

Curriculum Design

The curriculum design of the York College CUNY Occupational Therapy Program is based on the interaction of content knowledge and occupational therapy process concepts. It is our belief that the interaction of these

63. <http://www.aota.org>

delineates the substance and the process of what occupational therapists know and do. The matrix of these interactions serves as an organizer for the relationship between the courses in our curriculum and the content within them.

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; effective 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. The 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., and 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. The 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. The 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. The evaluation includes measurement and documentation of the 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, rehearses), 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 and 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, Suite 200, Bethesda, MD 20814-3449. 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.

Eligibility for Screening into Upper-Level Occupational Therapy Program

- Completion of a minimum of 60 college credits and application for matriculated student status at York College.
- Completion and documentation of at least 50 hours of volunteer work in an Occupational Therapy setting.
- A minimum overall grade point average of 2.9

- Completion of all college and pre-major OT-specific prerequisite course requirements, with a minimum grade of C in the following courses (taken within the past 10 years):
 - Biology 201 and 202 OR Biology 234 and 235
 - Chemistry 106 and 107 OR Chemistry 108 and 109
 - Math 111 (or any college-level statistics course)
 - Physics 140
 - Psychology 102
 - Psychology 214 OR Psychology 215 and 216
 - Psychology 338
 - Sociology 101

Note: Please note that 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. All General Education Requirements and OT specific prerequisites must be completed by the end of the Spring semester in which the student applies for screening. Please note that only ONE of these Spring courses can be a Natural Science course.

Screening and 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 Occupational Therapy at York College does not require a criminal background check for admission to our degree program, but the Department's educational requirements include placement at one or more hospitals or other off-campus clinical fieldwork sites, and these sites frequently require a student to undergo a criminal background check before the student can be placed for clinical fieldwork.

If, based upon the results of a criminal background check, the site determines that a student's participation in its clinical fieldwork program would not be in the best interest of the site, the site may deny that student admission to the fieldwork 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 fieldwork program. Each clinical fieldwork 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 Occupational Therapy program at York College depending on the number of sites where you are placed and the requirements of each site.

Some clinical fieldwork sites may also require that students submit to a drug test as a condition of their participation. Students will be responsible for the cost

of this testing. Refusal to have a test may result in an inability to complete the fieldwork experience and possibly the professional program.

Please note that if a clinical fieldwork site determines that you may not take part in its fieldwork program based on the results of a criminal background check or drug test (or due to refusal to submit to a drug test), 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 a program offered by the Department of Occupational Therapy at York College, as 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.*

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

The Occupational Therapy BS/MS Degree takes three and a half (3.5) academic years to complete. The program consists of 98 specialized occupational therapy credits, spread over seven (7) semesters.

Occupational Therapy BS/MS OT Prerequisite Requirements		
Completion of the following courses is required prior to beginning the OT program. Where applicable, courses are listed under corresponding categories in the Pathways Curriculum.		
MATH111	Introduction to Statistics & Probability	4
OR		
PSY226	Statistical Methods in Psychology	3
CHEM106	Essentials of College Chemistry*	3.5
AND		
CHEM107	Essentials of College Chemistry Laboratory*	1.5
OR		
CHEM108	Principles of Chemistry I*	3.5
AND		
CHEM109	Principles of Chemistry I Laboratory*	1.5
BIO201	Biological Principles I**	4
AND		
BIO202	Biological Principles II**	4
OR		
BIO234	Anatomy and Physiology I**	4
AND		
BIO235	Anatomy and Physiology II**	4
SOC101	Introductory Sociology	3
PSY102	Introductory Psychology	3
PSY214	Lifespan Development for Health Professionals	3
OR		
PSY215	Human Development I: Infancy/Childhood	3
AND		
PSY216	Human Development II: Adolescence/Maturity	3
PSY238	Abnormal Psychology	3

PHYS140	The Physical Universe	3
OR		
PHYS115	College Physics I	4
AND		
PHYS113	Physics Laboratory I	1
Major Discipline Requirements		98
Third Year		
OT313	Fundamentals of Occupational Therapy	3
OT315	Functional Human Anatomy	4
OT316	Functional Human Physiology	4
OT321	Occupational Analysis	3
OT322	Occupations Through the Life Span	3
OT318	Clinical Kinesiology	4
OT319	Common Medical Conditions	3
OT423	Collaboration in Occupational Therapy	4
OT424	Professional Development I	1
OT432	Neuroscience	3.5
Fourth Year		
OT403	Advanced Occupational Analysis	3
OT411	Occupational Therapy Process I: Pediatric Intervention	4
OT417	Research Methods	3.5
OT404	Advanced Neuroscience	4
OT505	Occupational Therapy Process I: Physical Intervention	4
OT508	Occupational Therapy Process I: Psychosocial Intervention	4
OT517	Research Design	3
OT518	Research Seminar I	1
OT647	Assistive Technology	2
Fifth Year		
OT506	Occupational Therapy Process II: Physical Intervention	4
OT507	Professional Development II	1
OT509	Occupational Therapy Process II: Psychosocial Intervention	4
OT513	Systems Management	3
OT519	Research Seminar II	1
OT523	Use of Orthotics in Occupational Therapy	1
OT524	Use of Physical Agent Modalities in Occupational Therapy Practice	1
OT641	Fieldwork II Occupational Therapy Practice I	5
OT642	Fieldwork II Occupational Therapy Practice II	5
Sixth Year		
OT522	Research Seminar IV	2
OT643	Capstone Community Experience	4
OT644	Advanced Occupational Therapy Theory & Practice	3
OT645A	Occupational Therapy Practice	3
OR		
OT645B	Occupational Therapy Practice	3

Notes:

- Students may have to take up to 4 credits of prerequisite mathematics courses in order to complete Chemistry 106/107 or 108/109. Those credits subtract from the Free Electives credit total.
- MATH 111 may also be taken to fulfill the Required Core: Mathematical and Quantitative Reasoning requirement.
- BIO 201, CHEM 106/107, and PHYS 140 may also be taken to fulfill the Required Core: Life and Physical Sciences requirement.
- BIO 202, BIO 234, BIO 235, CHEM 108/109, and PSY 102 may also be taken to fulfill the Flexible Core: Scientific World requirement.
- SOC 101 may also be taken to fulfill the Flexible Core: Individual and Society requirement.

***Students must take (CHEM 106 and CHEM 107) OR (CHEM 108 and CHEM 109)**

****Students must take (BIO 201 and BIO 202) OR (BIO 234 AND BIO 235)**

Screening Procedures for Occupational Therapy Program

1. Screening takes place during the Spring semester for Fall acceptance into the program
2. Students can download the Occupational Therapy program application from the department's website, or can request a hard copy from the department's office
3. Proof of application / acceptance to York College is required for transfer students at the time of application
4. All prior college transcripts from all schools attended (including York College) are required as part of the application package

Acceptance into the Occupational Therapy Program

Approval by the Occupational Therapy Screening Committee. This committee bases its recommendation on the following screening criteria:

- a. A completed admissions application for the Occupational Therapy program
- b. Completion of a minimum of 50 hours of volunteer work under the supervision of an Occupational Therapist
- c. Minimum grade point average of 2.9 and required courses

Applicants are not considered accepted into the program until they receive a letter of acceptance from the Chair of the Department of Occupational Therapy.

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, in the Occupational Therapy Program and completion of Master's level project is required for graduation.

Program Standards

Students will also be required to maintain a cumulative major GPA of 3.0 or above (calculated as the mean GPA of all completed courses in the OT major program). 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 3.5 years of the professional curriculum will be grounds for dismissal.

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

The Occupational Therapy Program 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, but is not limited to, cheating, plagiarism, the use of drugs, and / or other activities mentioned under the Guide for Student Development.

Course Standards for Retention

The lowest acceptable grade for Occupational Therapy courses 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 3.5-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.

Please Note: In the event of dismissal from the program due to any of the items mentioned above, the student has the right of appeal to the School of Health Sciences and Professional Programs Student Progression and Retention Committee. The student must come before the Committee in order to continue in the program.

Length of Time in Program

Students who are accepted into the Occupational Therapy program for the BS/MS degree have five and a half (5.5) academic years to complete the program. All Fieldwork Level II experiences must be completed within 12 months of completing academic coursework. Please note that Fieldwork Level I experiences cannot be substituted for Fieldwork Level II experiences. Students who enroll in a semester for OT 641 and 642 will be considered as registered for a full-time program.

Independent Study

The Occupational Therapy Program offers two 3-credit Independent Study of Selected Topics in Occupational Therapy courses, OT 446 and OT 646, and one 1-credit Independent Study in Occupational Therapy course, OT

648, for students who wish to develop more specialized skills than typical entry-level coursework provides in an area of practice under the supervision of Occupational Therapy faculty. These courses are not offered on a regular basis (availability determined by department), and can only be taken with departmental permission.

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

Department of Occupational Therapy Fieldwork Sites

Fieldwork Sites	Fieldwork Sites
Avalon Gardens Rehab and Healthcare Center	Manhattan Psychiatric Center
Afya Foundation of America, Inc.	Mercy Medical Center
AHAVA Medical and Rehab Urgent Care Center	Metropolitan Hospital Center (HHC)
Barrier Free Living	Mount Sinai Beth Israel Medical Center
Bellevue Hospital Center (HHC)	New York State Psychiatric Institute
Brookdale University Medical Center	NYU Lutheran Medical Center
Brooklyn Center (Centers for Specialty Care)	NYU - Rusk Institute for Rehab Medicine
Brooklyn Hospital Center	Omni Childhood Center
Catholic Charities Neighborhood Services	Out East Therapy of New York
Changing Lives Occupational Therapy	Ozanam Hall Nursing Home
Concourse Rehabilitation and Nursing Center	The POINT
Coney Island Hospital (HHC)	Positive Beginnings
Cooke Center for Learning and Development	PRN Rehabilitation Network
Daughters of Jacob Nursing Home (Centers for Specialty Care)	Preferred Therapy Solutions
Elmhurst Hospital Center	ProTherapy Rehabilitation
Faye Grand Hand Therapy Center	Queensboro Occupational Therapy
Forward Occupational Therapy	Queens Boulevard Extended Care Facility
Franklin Hospital (NSLIJ)	Queens Hospital Center (HHC)
Gersh Academy	Regal Heights Rehabilitation and Healthcare Center
Giving Alternative Learners Uplifting Opportunities	Selfhelp Community Services
Greater Harlem Nursing Home and Rehabilitation Center	Sensory Street Pediatric Occupational Therapy
Harlem Hospital Center (HHC)	Shorefront Center for Rehabilitation and Care
HeartShare Human Services	Staten Island University Hospital

Henry Street Settlement	Steppingstone Day School	Kidz Therapy Services	Walter Reed Army Medical Center
Jamaica Hospital Medical Center	The Summit School		Watch Me Grow
Jamaica Hospital Nursing Home	These Our Treasures	Kings Harbor Multicare Center	Weaving Hand
James J. Peters Medical Center	United Cerebral Palsy of Nassau County	Kingsbrook Medical Center	Woodward Children's Center
	VA New York Harbor Healthcare System	Lavelle School for the Blind	The Zucker Hillside Hospital (NSLIJ)
John A. Coleman School	Village Care of New York	Lawrence Hospital Center	
Kassimir Hand Therapy		Makes Sense! OT, SLP	

Department of Social Work

**Academic Core Building, Room 3A11
718-262-2607**

Acker, Gila, Professor and Chair

Allen-McCombs, Jennette, Assistant Professor

Ashton, Vicki, Professor Emerita

Diner, Matthew, Assistant Professor

Glickman, Kim, Assistant Professor

Letteney, Susan, Professor

Lilavois, Cathleen, Clinical Professor

Moldovan, Vadim, Associate Professor

Pratt, Damien, Lecturer

Rodgers, Selena, Associate Professor

Roeback, Shirell, Clinical Professor

Rosenthal, Beth, Professor Emerita

Social Work (BS)

HEGIS Number 2104

Mission Statement

The York College Bachelor of Science in Social Work Program is committed to undergraduate social work education of the highest academic rigor and professional relevance with a particular emphasis on serving diverse urban populations in the global context. The cohesive curriculum of the Program, built on a strong and well-integrated liberal arts base, is designed to educate students in the knowledge, skills, and values for generalist social work practice. The York College undergraduate Social Work Program prepares students for successful professional employment and advancement as well as graduate study in the field of social work.

In a perpetually changing social landscape in the United States and global demands, social work higher education institutions are continuously engaged in the practice of self-assessment, rejuvenation, and adjustment to current demographic, cultural, and economic realities. York College of the City University of New York is located in Queens County, which is one of the most ethnically diverse boroughs in the nation. Students who attend York College speak 84 different languages; many of them are 1st generation immigrants who represent 125 different countries. Diversity on campus and at the Program level goes beyond ethnicity and is expressed in family structure, gender, age, gender expression, sexual orientation, national origin, and religion.

One of the main pedagogical aspects of the York College Social Work Program is the emphasis on preparing students to work with diverse urban populations in a variety of practice settings. The complexity of the human condition in the context of a rapidly changing global environment and technological advances demands a high

level of expertise and sophistication from social work practitioners. The Program prepares students through an effective integration of a liberal arts foundation with the social work knowledge base. The distinctive and effective pedagogies which characterize the York College Bachelor of Sciences degree in Social Work, equip students with a broad and cohesive generalist knowledge base and the skills that allow graduates to work competently as emerging social work practitioners and leaders, and who pursue graduate study in social work.

The Program fully subscribes to the mission of York College expressed in the 2011 Strategic Plan: "York College enriches lives and enables students to grow as passionate, engaged learners with the confidence to realize their intellectual and human potential as individuals and global citizens."

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) admission to the Social Work Program; and admission to Social Work Field Education. Students also must satisfy retention criteria.

Admission to the Social Work Program

Students must apply for admission to the Social Work Program. The Program admits applicants each semester. The deadline for applications is posted in the Social Work department, Room 3A11.

The criteria for admission are as follows:

1. Matriculation at York College with a major in Social Work
2. A cumulative GPA of 2.7 or higher for both native and transfer students.
3. A Grade of "C" or higher in SCWK 101 for both native and transfer students.
4. Transfer social work courses at the 200 level and higher require a grade of C or higher.
5. A completed application form.

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 Work wing. Criteria for admission to Field Education are:

1. Admission to the Social Work Program
2. A cumulative York College GPA of 2.50 or better
3. A grade of "C" or better for all social work courses
4. Successful completion of 94 or more credits by the end of the semester in which the student applies
5. A completed application form
6. Successful completion of all courses required for admission to the Social Work Program and successful completion of the following courses: Social Work 350, 360, 370 Writing 303

Two courses from the following:

- BLST 202
- ANTH 243
- PSY 333
- SOC 235, 333

EFFECTIVE FALL 2021		
Social Work BS		
Major Discipline Requirements		
Required Support Courses		24-27
ANTH101	Introduction to Cultural Anthropology*	3
BIO130	Biology of the Brain and Behavior*	3
POL103	Politics and Government in the United States*	3
PSY102	Introductory Psychology*	3
SOC101	Introduction to Sociology*	3
HE312	Health, Communities, and Society	3
PSY214	Lifespan Development for Health Professions	3
OR		
PSY215	Human Development I – Infancy/ Childhood	3
AND		
PSY216	Human Development II – Adolescence/ Maturity	3
WRIT303	Research and Writing for Professional Purposes	3
Human Diversity Requirement Choose three of the following courses		9
ANTH243	The Caribbean	3
ANTH244	Ethnology of Latin America	3

ANTH245	Ethnography of the Mediterranean, Middle East	3
ANTH246	Ethnology and Ethnography of North American Indians	3
ANTH249	Anthropology of Puerto Rico	3
BLST202	The Black Experience in the Caribbean	3
BLST213	African American Religions and Religious Practice	3
BLST262	Black American Culture	3
BLST353	Boys to Men: From Black Macho to Black Male Feminist	3
HE241	Sex and Sexuality	3
HIST203	Slavery in World History	3
HIST206	Women and the Family in World History	3
HIST257	East Asia to the Nineteenth Century	3
HIST258	East Asia from 1800 to the Present	3
HIST262	History of the Middle East	3
HIST263	Jewish History: From Ancient Israel until the end of the Middle Ages	3
HIST264	Jewish History: The Modern Period	3
HIST262	History of the Middle East	3
HIST272	African – American History	3
HIST275	African History until 1800	3
HIST276	African History from 1800 until the Present	3
HIST277	The Caribbean Since Columbus	3
HUM250	The Italian Experience in the United States	3
HUM253	The Haitian Experience in the USA	3
PH343	Sexual and Gender Minority Health (pre-req: ENG 126)	3
PRST241	Puerto Ricans in New York	3
PRST242	Puerto Rican Society and Culture I	3
PSY225	Psychology of Learning Disabilities	3
PSY236	Psychology of Women	3
PSY280	Psychology of Geriatrics	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
Total credits		75-78

NOTE: Courses denoted with an asterisk (*) are courses that fulfill both Pathways General Education Requirements as well as Required Support Courses for the social work major.

Department of Teacher Education

Academic Core Building, Room 1D12
718-262-2450

Bai, Xin, Associate Professor

Cooper, Zena, Clinical Professor

Fusco, Dana, Professor

Keiler, Leslie, Professor and Chair

Lahey, Trace, Clinical Professor

Teacher Education Conceptual Framework

York College Mission

York College enriches lives and enables students to grow as passionate, engaged learners with the confidence to realize their intellectual and human potential as individuals and global citizens.

Teacher Education Unit Mission and Vision

The Teacher Education Unit promotes excellence through Diversity of Knowledge, Diversity of Culture and Diversity of Communication. We will prepare our pre-service candidates: to enact deep and broad content knowledge in order to enable diverse learners to achieve at the highest levels through the use of pedagogical knowledge and pedagogical content knowledge; and to embody professionalism. The Unit's rigorous academic program will develop 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.

Conceptual Framework

The Teacher Education Unit at York College strives to provide prospective teachers with the following knowledge, skills, and dispositions:

Enact Knowledge

- Access and build content knowledge
- Examine the power and biases of knowledge and knowledge construction
- Demonstrate a broad and deep knowledge of academic content
- Evaluate content knowledge for relevance to K-12 classroom
- Evaluate emerging content knowledge using research based evidence

Enable Pedagogy

- Design and deliver instruction that responds to the diversity of learners in the classroom
- Design curriculum and deliver instruction that represents broad and deep knowledge of pedagogy
- Embed technology into the learning experience

- Assess students using a diversity of measures, analyze the results, and make instructional decisions to optimize teaching and maximize student performance
- Act as reflective practitioners with a strong conviction that learning is a lifelong process

Embody Professionalism

- Understand the full range of student needs represented in an urban classroom
- Prepare students to be active and effective participants in a political and social democracy
- Collaborate with parents and leaders/agencies in the local community
- Collaborate with the professional educational community
- Demonstrate caring and ethical professional behavior in order to build teaching and learning environments that draw on the strengths of students' diverse cultures, languages, exceptionalities, multiple intelligences, and learning styles.
- Demonstrate a commitment to social justice and equity issues in multicultural, multilingual, urban schools
- Exhibit strong written, verbal, and non-verbal communication skills

Teacher Education Programs

Please consult the Department for an updated list of programs as the current list may not be most accurate.

Majors for Childhood and Extension Programs

Childhood Education, Grades 1-6	Bilingual Education, Grades 1-6	Middle School Extension, Grades 1-9
Interdisciplinary Studies	Spanish	English History

Majors for Secondary and PreK-12 Programs

- Health Education, PreK-12
- Physical Education, PreK-12
- Biology
- Chemistry
- Earth Science
- Mathematics
- Spanish

Teacher Education Minors

Youth Studies

Education

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. You must meet with a Teacher Education advisor in order to be given permission to register for

EDUC courses. For additional information regarding any of the Teacher Education Program requirements, contact the Department of Teacher Education^[64]

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.

The Teacher Education Unit implements all Teacher Education programs at York College, per accreditation specification (see NCATE Institutional Report approved March 22, 2012). The Unit is comprised of the Department of Teacher Education, which houses the Childhood and Secondary Education programs, and the Department of Health and Physical Education, which houses the Health Education and the Physical Educations programs. The Unit and both departments are located within the School of Health Sciences and Professional Programs. The chair of the Department of Teacher Education is also the Unit head. Admission and progression policies apply to all teacher education students in the Unit.

The Curriculum Sequence and Progression

The Education curriculum consists of three sets of distinct courses: the Premajor Block, the Professional Sequence, and Student Teaching. Students apply to the program after completing the Premajor Block. Once admitted, they progress into the Professional Sequence and later into Student Teaching. Also, see the Curriculum at a Glance chart to understand the specific courses required in each program, as well as, the credit hours and the field experience hours required. This will aid you in your semester and graduation planning.

Admission and Progression Policy

Once a student decides to pursue a Teacher Education program, s/he should make an appointment to meet with an advisor in the Department of Teacher Education (Room1D12, 718-262-2450). To be eligible for admission to a Teacher Education program, students must meet the following criteria:

- Minimum GPA of 3.0
- Complete the premajor block* with an average GPA of 3.0:
 - English 126 (3 credits)
 - Philosophy 202 or Sociology 202: Major Ideas and Issues in Education (WI) (3 credits)
 - Mathematics (3-4 credits)
 - *Childhood Education*: Mathematics 271: Topics in Foundational Math
 - *Physical and Health Education PreK-12*: Select from Mathematical and Quantitative Reasoning requirements specified by the individual major

- *Secondary Education, 7-12*: Select from Mathematics and Quantitative Reasoning requirements specified by the individual major
- Child Development (3 credits)
 - *Childhood Education*: Education 280: Child and Adolescent Development for Teachers
 - *Physical Education PreK-12 and Health Education PreK-12*: Education 280: Child and Adolescent Development for Teachers
 - *Secondary Education, 7-12*: Education 271: Adolescent and Youth Development
- Education 230: Teaching with Multimedia Technology (2 credits)
 - Complete the Department's Writing Workshop+
 - Submit the Admission Application
 - Complete background check and fingerprinting, and receive clearance through NYC Department of Education
 - Students cannot have an INC grade on their transcript at the time of Admissions
 - Declaration of appropriate Liberal Arts and Sciences Major
 - Transfer students must meet the same requirements above
 - Receive a passing score on Teaching with Technology e-portfolio (EDU 230) and Academic Literacy Assessment (SOC/PHIL 202)

*It is recommended that students complete the Premajor Block prior to their 60th credit.

+These workshops are offered by the Department of Teacher Education each semester. Dependent on budget, they are offered free of charge to eligible candidates.

Acceptance Notification Letters

Once a student submits their Admission Application, the Admissions and Retention committee reviews and scores the application and makes a recommendation to the Unit. The Unit reserves the right to interview candidates to make a final admissions decision when necessary. There are three recommendations that the committee will make: Accept, Conditionally Accept, Reject. Students accepted or conditionally accepted will be notified of the committee's decision by both email and regular mail and must come to the Department of Teacher Education (Room 1D12) to sign their Notification Letter in person within 7 days of date of letter. Students who are conditionally admitted are reviewed at the end of the term specified in their Notification Letter and will receive a second Notification Letter either formally admitting them into the program or rejecting their application. Students who are not admitted will be notified by Registered Mail. They can reapply once with updated information.

Progression in the Professional Sequence

64. <http://york.cuny.edu/academics/departments/academic-departments/teacher-education>

Once accepted into a Teacher Education program, students must maintain a level of academic rigor in order to be retained in a Teacher Education program and progress into the Professional Sequence.

- Any grade below a B in an Educational Professional course **MUST** be repeated; a course may be repeated only once and only one Professional Course can be repeated.
- Students should be completing their field experiences as required in each course and submitting the necessary paperwork. (The New York State Department of Education requires a minimum of 100 hours of field experiences prior to student teaching; these hours are documented using our Fieldwork Verification Form, which is distributed to students in each Education course.)
- Students must exhibit acceptable professional dispositions in and out of the classroom. Acceptable professional dispositions includes behaviors such as: respectful communication with faculty, staff and peers; timely submission of classroom and departmental materials; professional behavior during field observations and clinical experiences.

Progression into Student Teaching

To be eligible for progression into Student Teaching, the following criteria must be met:

- Successful completion of all course prerequisites
- Overall GPA of 3.0 or above
- 2/3 of major courses complete and/or no more than one major course needed
- Completion of Student Leadership Requirement (see below)
- Completion of Student Teaching Application
- Interview with Clinical Coordinator
- Must take the Educating All Students exam
- Must take the Content Specialty Test
- Students must receive a grade of B or above in their first student teaching placement to progress to their second placement. Grades below a B require immediate action in consultation with the Clinical Coordinator and/or Department Chair.

Student Leadership Requirement

All students must complete at least one semester of leadership prior to Student Teaching. The leadership requirement can be met in many different ways. Each advisor has a list of opportunities for the upcoming semester and they will be posted on Blackboard. Once a student commits to a particular activity it must be honored and the advisor must sign off upon completion. Students will receive a Certificate of Achievement, which can be included in their online application to student teaching. Or, students can shoot higher and earn the Leadership Badge. Such students will receive a special digital badge as well as become eligible for various Departmental awards; all of which look very good to potential employers. The Department will provide a variety of options for students,

such as serving on committees, attending open house events, and other opportunities and possibilities to be announced.

Candidates will be put on a Probationary Status prior to Dismissal if:

1. The Candidate's cumulative GPA in any area (Education, Content Area/Major, Overall) falls below a 3.0 and/or;
2. Candidate has received one or more grades below a "B" in any Professional Education Course and/or;
3. Candidate has received two or more grades below a "C" in any Major course; and/or
4. Candidate has received two or more poor professional integrity (disposition) evaluations.

Probationary Plan:

1. All Teacher Education candidates must meet with their advisor each term and review progress. Candidates who are placed on Probationary Status will be given a Remediation Plan and will be assigned a faculty mentor to support and guide their progress.
2. An analysis of the potential to remediate their deficits in one semester will be conducted. Candidates will be advised of their potential to exit Probationary Status in one semester.
3. Candidates will be given one semester to remediate any of the affected areas above (A, B, C, D).
4. If the Candidate fails to meet the conditions of Probation in one semester, and has demonstrated extenuating circumstances that have impacted academic progress, it will be brought back to the Admissions/Retention committee for review for a potential second and final semester of Probation.
5. Candidates will be limited to 1 Education class for the semester they are on Probation.
6. Any Candidate currently on Probationary status will not be permitted to advance to Student Teaching.
7. Candidates will only be permitted one Probationary status during their course of study.
8. Upon successful completion of the Remediation plan, the Candidate will be removed from Probationary status. Candidates who do not meet the conditions of Probation will be Dismissed.

Dismissal:

The term "Dismissal" will be used only for a **permanent dismissal** from the program after an unsuccessful probationary period.

All cases are reviewed by the Department's Admission and Retention Committee. The Department Chair reserves the right to make all final decisions of admissions, retention, probation, and dismissal. Appeals may go to the Progression and Retention Committee of the School of Health Sciences and Professional Programs (send email to SHSPAppeals@york.cuny.edu [See page 0]).

Certification Exams

To receive a New York State initial certificate for teaching, candidates are required to achieve passing scores on the required certification exams. {Visit the NYSTCE website^[65]

Recommendation for State Licensure

To be recommended by the Teacher Education Unit for NYS licensure, the following criteria must be met:

- Complete student teaching with a minimum grade of B
- Complete Violence Prevention, Dignity for All Student Act, and Child Abuse and Neglect workshops
- Earn overall GPA of 3.0 on all courses taken at York College
- Complete all course work required for degree
- Pass all NYS certification exams

Effective Fall 2015, no new students will be admitted to the following programs: Anthropology Childhood Education, Black Studies Childhood Education, Biology Childhood Education, Chemistry Childhood Education, Economics Childhood Education, French Childhood Education, French Education / Middle School Extension, Music Childhood Education, Philosophy Childhood Education, Political Science Childhood Education, Psychology Childhood Education, Sociology Childhood Education and Speech Communication / Theatre Arts Childhood Education.

Biology Childhood Education (BS)

HEGIS Number 0401

Biology Childhood Education BS		
Major Discipline Requirements		
I Required Foundation Courses:		
BIO201	Biological Principles I	4
BIO202	Biological Principles II	4
BIO301	Molecular Biology & Biotechnology	4
BIO307	Biostatistics	3
BIO486-489***	Special Topics in Biology	2
CHEM102	Chemical Principles II*	5
CHEM231	Organic Chemistry I	3
CHEM232	Techniques of Organic Chemistry I	2
CHEM233	Organic Chemistry II	3
PHYS151**	University Physics I**	5
PHYS152**	University Physics II**	5
II. Organismic & Environmental Biology		7.5-9
Choose 7.5 - 9 Credits from the following		
BIO231	Biology of Plants	4.5
BIO308	Invertebrate Biology	4.5
BIO309	Biology of Chordates	4.5
BIO325	Histology	4.5
BIO334	Comparative Physiology	4.5
BIO403	Ecology	4.5
BIO410	Neurobiology	3

BIO411	Laboratory in Neurobiology	1.5
BIO477	Evolution	3.0
Cell & Molecular Biology		7.5-10
Choose 7.5 - 10 Credits from the following		
BTEC352	Bioinformatics	3
BIO320	Cell Biology	4.5
BIO412	Biochemistry	3
	or	
CHEM412	Biochemistry	
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 & Experimentation in Biotechnology	5
Education Course Requirements		
Foundations Sequence		
AC230	Teaching with Multimedia Technology	2
EDUC268	Bilingual and ELL Education	2
EDUC280	Child and Adolescent Development for Teachers	3
EDUC283	Educational Psychology: Effective Teaching and Learning in Diverse and Inclusive Classrooms	3
EDUC284	Field Experience in Teaching and Learning	1
MATH271	Mathematics for Elementary School Teachers	4
PHIL202	Major Ideas and Issues in Education	3
OR		
SOC202	Major Ideas and Issues in Education	3
Professional Education Sequence		
EDUC317	Curriculum and Methods in Elementary Education: Science	2
EDUC318	Curriculum and Methods in Health and Physical Education for Elementary School	2
EDUC323	Curriculum and Methods in Elementary Education: Mathematics	2
EDUC333	Constructing Social Studies Relationships through Expressive Arts	2
EDUC369	Early Language and Literacy	3
EDUC370	Content Area Literacy 2 - 6 EO and ELL	3
Student Teaching and Teaching Seminar		
EDUC431	Supervised Student Teaching, Grades 1 - 3	3
EDUC432	Supervised Student Teaching, Grades 4 - 6	3

65. http://www.nystce.nesinc.com/NY17_whoshouldtest.asp

*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 - 489 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.

Biology/ Education 7-12 (BS)

HEGIS Number 0401

Biology Education 7-12 BS		
Required Core Curriculum Courses		
This program has received a waiver to require that students take the following courses in fulfillment of Core Curriculum requirements. Students who do not take these courses to fulfill Core requirements may not be able to complete the major in 120 credits.		
BIO201	Biological Principles I	4
BIO202	Biological Principles II	4
CHEM108	Principles of Chemistry I	3.5
CHEM109	Principles of Chemistry I Lab	1.5
MATH121	Analytical Geometry and Calculus	4
	Upper-level Writing Intensive (WI) course	3
	One Foreign Language course	3
I. Biology Requirements		53.5
BIO201	Biological Principles I	4
BIO202	Biological Principles II	4
BIO301	Molecular Biology & Biotechnology	4
BIO307	Biostatistics	3
BIO320	Cell Biology	4.5
BIO334	Comparative Physiology	4.5
BIO403	Ecology	4.5
BIO486-489	Special Topics in Biology	2
CHEM111	Principles of Chemistry II	3.5
CHEM112	Principles of Chemistry II Laboratory	1.5
CHEM230	Essentials of Organic Chemistry	3.5
AND		
CHEM235	Techniques in Organic Chemistry I	2
OR		
CHEM231	Organic Chemistry I	3
AND		
CHEM232	Techniques of Organic Chemistry	2
MATH121	Analytic Geometry and Calculus	4
PHYS140	The Physical Universe	3
II. Teacher Education Requirements		40
	Students should consult the Admissions and Progression Policy for additional requirements. Students should meet with an Education advisor each semester to select classes that meet all requirements.	

A. Foreign Language		3
	One Foreign Language course	3
B. Support Courses		11
ENG126	Composition II: Writing About Literature	3
EDUC230	Teaching with Multimedia Technology	2
EDUC271	Adolescent and Youth Development	3
MATH121	Analytic Geometry and Calculus	4
PHIL202	Major Ideas and Issues in Education	3
OR		
SOC202	Major Ideas and Issues in Education	3
C. Professional Sequence		18
EDUC268	Bilingual and English Language Learner Education (ELL)	3
EDUC283	Educational Psychology: Effective Teaching and Learning in Diverse Classroom Environments	3
EDUC285	Introduction to Special Education	3
EDUC340	Literacy Instruction inside Middle and Secondary Schools for English Only (EO) and English Language Learners (ELLs)	3
EDUC395	Curriculum and Methods in Subject Specific (K-12) Educations I: Learning Goals and Assessments	3
EDUC398	Curriculum and Methods in Secondary Education II: Scientific Instruction and Classroom Environments	3
D. Student Teaching and Student Teaching Seminar		8
EDUC405	Capstone Clinical Experience & Seminar for Secondary Education, Grades 6-9	4
EDUC406	Capstone Clinical Experience & Seminar for Secondary Education, Grades 10-12	4
Credit Totals		
Total Program credits		93.5
Total Core Curriculum credits		21
Total free elective credits		5.5
Total credits for the BS in Biology/Education 7-12		120

Notes:

- BIO 201 also fulfills the Required Core: Life and Physical Sciences requirement.
- BIO 202, CHEM 108, and CHEM 109 also fulfill the Flexible Core: Scientific World requirement.
- MATH 121 also fulfills the Required Core: Mathematical and Quantitative Reasoning requirement.
- Students who do not place directly into MATH 121 may have to take up to 8 credits of prerequisite mathematics courses. Those credits subtract from the Free Electives credit total. Students who need to take 8 credits of prerequisite mathematics courses may exceed 120 credits in completing the degree program.
- Students may take BIO 301 or BIO 486 or BIO 487 or BIO 488 or BIO 489 or EDUC 340 to fulfill the College Option Core: Writing Intensive requirement.

6. Foreign Language is a NYS requirement and may also be taken toward fulfillment of the College Option Core: Foreign Language requirement. Students may be required to take a second Foreign Language course to complete the Core requirement.
7. Students take CHEM 230 *and* CHEM 235 as corequisites, *or* CHEM 231 *and* CHEM 232 as corequisites.
8. Students must be admitted to a Teacher Education program in order to progress into and through the professional sequence.
9. ENG 126 also fulfills the Required Core: English Composition requirement.

EDUC318	Curriculum and Methods in Health and Physical Education for Elementary School	2
EDUC323	Curriculum and Methods in Elementary Education: Mathematics	2
EDUC333	Constructing Social Studies Relationships through Expressive Arts	3
EDUC369	Early Language and Literacy	3
EDUC370	Content Area Literacy 2 - 6 EO and ELL	3
Student Teaching and Student Teaching Seminar		
EDUC431	Supervised Student Teaching, Grades 1 - 3	3
EDUC432	Supervised Student Teaching, Grades 4 - 6	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

Chemistry Childhood Education (BS)

HEGIS Number 1905

Chemistry Childhood Education BS		
Major Discipline Requirements*		
Required Courses		
CHEM101	Chemical Principles I	5
CHEM102	Chemical Principles II	5
CHEM231	Organic Chemistry I	3
CHEM232	Techniques of Organic Chemistry I	2
CHEM233	Organic Chemistry II	3
CHEM234	Techniques of Organic Chemistry II	2
CHEM310	Inorganic Chemistry	3
CHEM321	Physical Chemistry I	3
CHEM322	Physical Chemistry II	3
CHEM341	Instrumental Analysis I	3
CHEM342	Instrumental Analysis II	3
CHEM421	Physical-Inorganic Laboratory	3
MATH122	Analytic Geometry and Calculus II	4
MATH221	Analytic Geometry and Calculus III	4
PHYS151	University Physics I	5
PHYS152	University Physics II	5
Choose One of the following courses		
CHEM330	Structure and Mechanism in Biochemistry	3
CHEM339	Heterocyclic Chemistry and Drug Chemistry	3
CHEM412	Biochemistry	3
CHEM450	Advanced Topics In Chemistry	3
EDUCATION COURSE REQUIREMENTS		
Foundations Sequence Teaching with Multimedia Technology		2
EDUC268	Bilingual and ELL Education	2
EDUC280	Child and Adolescent Development for Teachers	3
EDUC283	Educational Psychology: Effective Teaching and Learning in Diverse and Inclusive Classrooms	3
EDUC284	Field Experience in Teaching and Learning	1
MATH271	Mathematics for Elementary School Teachers	4
PHIL202	Major Ideas and Issues in Education	3
OR		
SOC202	Major Ideas and Issues in Education	3
Professional Education Sequence		
EDUC317	Curriculum and Methods in Elementary Education: Science	2

Chemistry/ Education 7-12 (BS)

HEGIS Number 1905

Chemistry Teacher Education 7-12		
Required Core Curriculum Courses		
This program is requesting a waiver to require that students take the following courses in fulfillment of Core Curriculum requirements. Students who do not take these courses to fulfill Core requirements may not be able to complete the major in 120 credits.		
English Composition		
ENG126	Composition II: Writing About Literature	3
Mathematical & Quantitative Reasoning		
MATH121	Analytical Geometry and Calculus I	4
Life & Physical Sciences		
PHYS113	Physics Laboratory I	1
PHYS117	University Physics I	4
Scientific World		
CHEM108	Principles of Chemistry I	3.5
CHEM109	Principles of Chemistry I Laboratory	1.5
PHYS114	Physics Laboratory II	1
PHYS118	University Physics II	4
Chemistry Major Requirements		
CHEM108	Principles of Chemistry I	3.5
CHEM109	Principles of Chemistry I Laboratory	1.5
CHEM111	Principles of Chemistry II	3.5
CHEM112	Principles of Chemistry II Laboratory	1.5
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
CHEM330	Structure and Mechanism in Biochemistry	3
CHEM341	Instrumental Analysis I	3
CHEM342	Instrumental Analysis II	3
PHYS113	Physics Laboratory I	1

PHYS114	Physics Laboratory II	1
PHYS117	University Physics I	4
PHYS118	University Physics II	4
MATH122	Analytic Geometry & Calculus II	4
BIO110	Environmental Biology	3
GEOL110	Man and the Earth	3
Teacher Education		44
Students should consult the Admission and Progression Policy for additional requirements. Students should meet with an Education advisor each semester to select classes that meet all requirements.		
A. Required Core Curriculum Courses		
	One foreign language course	3
B. Support Courses		15
ENG126	Composition II: Writing About Literature	3
EDUC230	Teaching with Multimedia Technology**	2
EDUC271	Adolescent and Youth Development	3
SOC202	Major Ideas and Issues in Education	3
OR		
PHIL202	Major Ideas and Issues in Education	3
MATH121	Analytical Geometry and Calculus	4
C. Professional Sequence		18
EDUC268	Bilingual and English Language Learner (ELL) Education	3
EDUC283	Educational Psychology: Effective Teaching & Learning in Diverse and Inclusive Classroom Environments	3
EDUC285	Introduction to Special Education	3
EDUC340	Literacy Instruction Inside Middle and Secondary Schools for English Only (EO) and English Language Learners (ELLs)	3
EDUC395	Curriculum and Methods in Subject Specific (K-12) Education I: Learning Goals and Assessments	3
EDUC398	Curriculum and Methods in the Secondary Education Classroom II: Science Instruction and Classroom Environments	3
D. Student Teaching and Student Teaching		8
EDUC405	Capstone Clinical Experience & Seminar for Secondary Education, Grades 6-9	4
EDUC406	Capstone Clinical Experience & Seminar for Secondary Education, Grades 10-12	4
Credit Totals		
Total Program credits		99
Total Core Curriculum credits		21-42
Total Free Elective credits		0-21
Total Credits for the BS in Chemistry/Education 7-12		120-141

Notes:

1. ENG 126 also fulfills the Required Core: English Composition requirement.
2. MATH 121 also fulfills the Required Core: Mathematical & Quantitative Reasoning requirement.

3. Students who do not place directly into MATH 121 may have to take up to 8 credits of prerequisite mathematics courses.
4. PHYS 113/117 also fulfill the Required Core: Life & Physical Sciences requirement.
5. CHEM 108/109 and PHYS 114/118 also fulfill the Flexible Core: Scientific World requirement.
6. EDU 340 also fulfills the College Option Writing requirement.
7. BIO 110 or GEOL 110 also fulfill the Flexible Core: Scientific World requirement.
8. Foreign Language is a NYS requirement and also fulfills the College Option Foreign Language requirement. Students still need to fulfill other Foreign Language requirement under College Option.
9. Students won't be allowed to continue to take courses in Professional Sequence without a GPA of 3.0 in the Support Courses block.

Earth Science/Education 7-12 (BS)

HEGIS Number 1914

Earth Science Education 7-12		
Required Core Curriculum Courses		
This program has received a waiver to require that students take the following courses in fulfillment of Core Curriculum requirements. Students who do not take these courses to fulfill Core requirements may not be able to complete the major in 120 credits.		
GEOL115	Energy, Resources and the Environment	3
CHEM108	Principles of Chemistry I	3.5
CHEM109	Principles of Chemistry I Laboratory	1.5
PHYS113	Physics Laboratory I	1
AND		
PHYS115	College Physics I	4
OR		
PHYS117	University Physics I	4
MATH121	Analytic Geometry and Calculus I	4
	Upper level Writing Intensive course	3
	At least one Foreign Language course	3
I. Earth Science Requirements		52.5
GEOL115	Energy, Resources and the Environment	3
GEOL120	Our Oceanic Environment	3
GEOL140	Our Earth	3
	(GEOL 110 Man and the Earth AND GEOL 207 Geologic Techniques may be substituted for GEOL 140)	
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
ASTR141	Astronomy Laboratory	3
CHEM108	Principles of Chemistry I	3.5
CHEM109	Principles of Chemistry I Laboratory	1.5

CHEM111	Principles of Chemistry II	3.5
CHEM112	Principles of Chemistry II Laboratory	1.5
PHYS113	Physics Laboratory I	1
PHYS115	College Physics I	4
OR		
PHYS117	University Physics II	4
MATH121	Analytic Geometry and Calculus I	4
II. Teacher Education		
A. Required Core Curriculum Courses		
	One foreign language course	3
B. Support Courses		11
ENG126	English Composition II: Writing About Literature	3
PHIL202	Major Ideas and Issues in Education	3
OR		
SOC202	Major Ideas and Issues in Education	3
MATH121	Analytic Geometry and Calculus I	4
EDUC230	Teaching with Multimedia Technology	2
EDUC271	Adolescent and Youth Development	3
C. Professional Sequence		18
EDUC268	Bilingual and English Language Learner (ELL) Education	3
EDUC283	Educational Psychology: Effective Teaching and Learning in Diverse Classrooms	3
EDUC285	Introduction to Special Education	3
EDUC340	Literacy Instruction inside Middle and Secondary Schools for English Only (EO) and English Language Learners (ELLs)	3
EDUC395	Curriculum and Methods in Subject Specific (K-12) Education I: Learning Goals and Assessments	3
EDUC398	Curriculum and Methods in the Secondary Education Classroom II: Science Instruction and Classrooms	3
D. Student Teaching and Student Teaching		8
EDUC405	Capstone Clinical Experience & Seminar for Secondary Education, Grades 7-9	4
EDUC406	Capstone Clinical Experience & Seminar for Secondary Education, Grades 10-12	4
Credit Totals		
Total Program Credits		96.5
Total Core Curriculum credits		21
Total free elective credits		6.5
Total credits for the BS in Earth Science/Education 7-12		120

Notes:

1. GEOL 115 fulfills Earth Science and Flexible Core: Scientific World requirements.
2. CHEM 108 and CHEM 109 (taken as corequisites) fulfill Earth Science Program and Flexible Core: Scientific world requirements.
3. PHYS 113 and PHYS 115 (taken as co-requisites) or PHYS 113 and PHYS 117 (taken as co-requisites) fulfill Earth Science program and Required Core: Life and Physical Science requirements.

4. MATH 121 also fulfills the Required Core: Mathematical and Quantitative Reasoning requirement.
5. Students who do not place directly into MATH 121 may have to take up to 8 credits of prerequisite mathematics courses. Those credits subtract from the Free Electives credit total. Students who need to take 8 credits of prerequisite mathematics courses may exceed 120 credits in completing the degree program.
6. EDUC 340 also fulfills the College Option Core: Writing Intensive requirement.
7. Foreign Language is a NYS requirement and may also be taken toward fulfillment of the College Option Core: Foreign Language requirement. Students may be required to take a second Foreign Language course to complete the Core requirement.
8. Students won't be allowed to continue to take courses in Professional Sequence without a GPA of 3.0 in the Support Courses block.
9. ENG 126 also fulfills the Required Core: English Composition requirement.

Education (Minor)

EFFECTIVE FALL 2021		
Minor in Education		14
PHIL202	Major Ideas and Issues in Education	3
OR		
SOC202	Major Ideas and Issues in Education	3
EDUC280	Child and Adolescent Development for Teachers	3
OR		
PSY216	Human Development II: Adolescence/Maturity (For Psychology majors only)	3
OR		
EDUC271	Adolescent and Youth Development (Not for Psychology majors)	3
EDUC230	Teaching with Multimedia Technology	2
EDUC283	Educational Psychology: Effective Teaching and Learning in Diverse Classrooms	3
EDUC268	Teaching the Linguistically Diverse Student and Mainstream Classes	3

English Childhood Education (BA)

HEGIS Number 1501

English Childhood Education BA		
Recommended Core Curriculum Courses		
World Cultures & Global Issues		
ENG200	Understanding Literature	3
Flexible Core		
In order to ensure students graduate with no more than 120 credits, the following is recommended: Students choosing English Emphasis A should take ENG 240 as a flex core course in U.S. Experience in		

its Diversity; students choosing English Emphasis B should take ENG 286 as a Flex Core course in Creative Expression		
Program Requirements		
English Major Requirements		36
I. Required Foundation Courses		12
ENG200	Understanding Literature	3
ENG202	Introduction to Literary Studies	3
ENG262	Introduction to Writing, Rhetoric, and Language	3
WRIT304	Research and Writing for English Majors	3
II. Pre-Twentieth Century Literature		6
One course from the following in British literature		3
ENG318	Shakespeare: The Major Works	3
ENG328	Medieval and Renaissance Literature	3
ENG333	Restoration and Eighteenth Century Literature	3
ENG343	The Romantic Period in England	3
ENG344	Victorian Literature	3
One course from the following in American literature		3
ENG350	American Voices and Visions I	3
ENG351	American Romanticism	3
ENG352	American Voices and Visions II	3
ENG353	19th Century American Literature	3
III. Methodology		3
ENG311	Critical Studies in English	3
IV. Emphasis (Choose A or B)		9
A. Writing, Rhetoric, and Language (3 courses from the following, chosen with an advisor, no more than one course at the 200 level:)		
ENG265	Advanced Composition	3
ENG270	Introduction to Grammar and Syntax	3
ENG279	Special Topics in Writing, Rhetoric and Language	3
ENG286	Introduction to Creative Writing	3
ENG362	Rhetorical Theory and Criticism	3
ENG369	Critical Literacy Studies	3
ENG371	History of the English Language	3
ENG373	Writing for Business	3
ENG375	English Sociolinguistics	3
ENG379	Special Topics in Writing, Rhetoric, and Language	3
ENG384	Writing for Electronic Media	3
ENG386	Poetry Workshop	3
ENG387	Short Story Workshop	3
ENG388	Playwriting Workshop	3
ENG389	Creative Nonfiction Workshop	3
B. Literature		
a. One of the following:		
ENG209	Understanding Poetry	3
ENG211	Foundations of Western Literature	3
ENG240	Literary Traditions in the U.S.	3
ENG318	Shakespeare: The Major Works	3
ENG356	Studies in a Literary Genre or Movement	3
ENG358	Major Authors	3

b. Two additional courses at the 300 level or higher, chosen with an advisor		6
V. Seminar		3
One course from:		
ENG410	Seminar in English: Special Topics	3
ENG430	Seminar in Literature	3
ENG470	Seminar in Writing, Rhetoric, and Language	3
Global Writing (choose one)		3
ENG272	World Englishes	3
ENG390	Caribbean Literatures in English	3
ENG391	Topics in Global Literatures	3
ENG394	Literature of Diasporas	3
WLIT394	Literature of Diasporas	3
ENG396	Global Women Writers	3
WLIT396	Global Women Writers	3
Teacher Education		59
Students should consult the Admission and Progression policy for additional requirements. Students should meet with an Education advisor each semester to select classes that meet all requirements.		
A. Required Core Curriculum Courses		
	At least one foreign language course	3
Life and Physical Sciences		
BIO140	Human Biology	3
OR		
EHS140	Environmental Management	3
OR		
GEOL140	Our Earth	3
OR		
PHYS140	The Physical Universe	3
B. Support Courses		
ENG126	English Composition II: Writing About Literature	3
PHIL202	Major Ideas and Issues in Education (WI)	3
OR		
SOC202	Major Ideas and Issues in Education (WI)	3
MATH271	Topics in Foundational Mathematics	4
EDUC230	Teaching with Multimedia Technology	2
EDUC280	Child and Adolescent Development for Teachers	3
C. Professional Sequence		30
EDUC268	Bilingual and English Language Learner (ELL) Education	3
EDUC271	Adolescent and Youth Development	3
EDUC283	Educational Psychology: Effective Teaching & Learning in Diverse and Inclusive Classrooms	3
EDUC285	Introduction to Special Education	3
EDUC352	Instructional Strategies in Middle and High Schools	3
EDUC323	Curriculum and Methods in Elementary Education: Mathematics	3
EDUC369	Early Language & Literacy for English Only and English Language Learners (WI)	3
EDUC370	Content Literacy 2-6 English Only and English Language Learners (EO & ELLs)	3
EDUC390	Curriculum and Methods in Elementary Education I: Learning Goals & Assessments	3

EDUC392	Elementary Methods II: Instruction and Classroom Environments	3
Student Teaching and Student Teaching Seminar		8
EDUC401	Capstone Clinical Experience & Seminar for Childhood Education, Grades 1-3	4
EDUC402	Capstone Clinical Experience & Seminar for Childhood Education, Grades 4-6	4
Total Program credits		95
Total Core Curriculum credits		24
Total free elective credits		1
Total credits for the BA in English Childhood Education		120

Notes:

1. ENG 200 satisfies the Flexible Core: World Cultures and Global Issues requirement.
2. In order to ensure students graduate with no more than 120 credits, the following is recommended: Students choosing English Emphasis A should take ENG 240 as a Flex Core course in U.S. Experience in its Diversity; students choosing English Emphasis B should take ENG 286 as a Flex Core course in Creative Expression.
3. Normally taken during Senior year. Seminar courses fulfill the upper-division Writing Intensive requirement. Requires Departmental permission.
4. Foreign Language and Science with Lab are NYS requirement and also fulfill the Common Core requirement. Students still need to fulfill other Foreign Language requirement under College Option.
5. Students won't be allowed to continue to take courses in Professional Sequence without a GPA of 3.0 in the Support Courses block.
6. ENG 126 also fulfills the Required Core: English Composition requirement.
7. EDUC 369 also fulfills the College Option Core: Writing Intensive requirement.

English Education/Middle School Extension (BA)

HEGIS Number 1501

English Education/Middle School Extension (BA)		
Recommended Core Curriculum Courses		
World Cultures & Global Issues		
ENG200	Understanding Literature	3
Flexible Core		
In order to ensure students graduate with no more than 120 credits, the following is recommended: Students choosing English Emphasis A should take ENG 240 as a flex core course in U.S. Experience in its Diversity; students choosing English Emphasis B should take ENG 286 as a Flex Core course in Creative Expression		
Program Requirements		
English Major Requirements		36
I. Required Foundation Courses		12

ENG200	Understanding Literature	3
ENG202	Introduction to Literary Studies	3
ENG262	Introduction to Writing, Rhetoric, and Language	3
WRIT304	Research and Writing for English Majors	3
II. Pre-Twentieth Century Literature		6
One course from the following in British literature		3
ENG318	Shakespeare: The Major Works	3
ENG328	Medieval and Renaissance Literature	3
ENG333	Restoration and Eighteenth Century Literature	3
ENG343	The Romantic Period in England	3
ENG344	Victorian Literature	3
One course from the following in American literature		3
ENG350	American Voices and Visions I*	3
ENG351	American Romanticism	3
ENG352	American Voices and Visions II*	3
ENG353	19th Century American Literature*	3
III. Methodology		3
ENG311	Critical Studies in English	3
IV. Emphasis (Choose A or B)		9
A. Writing, Rhetoric, and Language (3 courses from the following, chosen with an advisor, no more than one course at the 200 level:)		
ENG265	Advanced Composition	3
ENG270	Introduction to Grammar and Syntax	3
ENG279	Special Topics in Writing, Rhetoric and Language	3
ENG286	Introduction to Creative Writing*	3
ENG362	Rhetorical Theory and Criticism	3
ENG369	Critical Literacy Studies	3
ENG371	History of the English Language	3
ENG373	Writing for Business	3
ENG375	English Sociolinguistics	3
ENG379	Special Topics in Writing, Rhetoric, and Language	3
ENG384	Writing for Electronic Media	3
ENG386	Poetry Workshop	3
ENG387	Short Story Workshop	3
ENG388	Playwriting Workshop	3
ENG389	Creative Nonfiction Workshop	3
B. Literature		
a. One of the following:		
ENG209	Understanding Poetry	3
ENG211	Foundations of Western Literature	3
ENG240	Literary Traditions in the U.S.*	3
ENG318	Shakespeare: The Major Works	3
ENG356	Studies in a Literary Genre or Movement	3
ENG358	Major Authors	3
b. Two additional courses at the 300 level or higher, chosen with an advisor		6
V. Seminar		3
One course from:		
ENG410	Seminar in English: Special Topics	3
ENG430	Seminar in Literature	3

ENG470	Seminar in Writing, Rhetoric, and Language	3
Global Writing (choose one)		3
ENG272	World Englishes	3
ENG390	Caribbean Literatures in English	3
ENG391	Topics in Global Literatures	3
ENG394	Literature of Diasporas	3
WLIT394	Literature of Diasporas	3
ENG396	Global Women Writers	3
WLIT396	Global Women Writers	3
Teacher Education		59
Students should consult the Admission and Progression policy for additional requirements. Students should meet with an Education advisor each semester to select classes that meet all requirements.		
A. Required Core Curriculum Courses		
	At least one foreign language course	3
Life and Physical Sciences		
BIO140	Human Biology	3
OR		
EHS140	Environmental Management	3
OR		
GEOL140	Our Earth	3
OR		
PHYS140	The Physical Universe	3
B. Support Courses		
ENG126	English Composition II: Writing About Literature*	3
PHIL202	Major Ideas and Issues in Education (WI)*	3
OR		
SOC202	Major Ideas and Issues in Education (WI)*	3
MATH271	Topics in Foundational Mathematics	4
EDUC230	Teaching with Multimedia Technology	2
EDUC280	Child and Adolescent Development for Teachers	3
C. Professional Sequence		30
EDUC268	Bilingual and English Language Learner (ELL) Education	3
EDUC271	Adolescent and Youth Development	3
EDUC283	Educational Psychology: Effective Teaching & Learning in Diverse and Inclusive Classrooms	3
EDUC285	Introduction to Special Education	3
EDUC352	Instructional Strategies in Middle and High Schools	3
EDUC323	Curriculum and Methods in Elementary Education: Mathematics	3
EDUC369	Early Language & Literacy for English Only and English Language Learners (WI)	3
EDUC370	Content Literacy 2-6 English Only and English Language Learners (EO & ELLs)	3
EDUC390	Curriculum and Methods in Elementary Education I: Learning Goals & Assessments	3
EDUC392	Elementary Methods II: Instruction and Classroom Environments	3
Student Teaching and Student Teaching Seminar		8
EDUC401	Capstone Clinical Experience & Seminar for Childhood Education, Grades 1-3	4

EDUC402	Capstone Clinical Experience & Seminar for Childhood Education, Grades 4-6	4
Total Program credits		95
Total Core Curriculum credits		24
Total free elective credits		1
Total credits for the BA in English Middle School Education		120

Notes:

1. ENG 200 satisfies the Flexible Core: World Cultures and Global Issues requirement.
2. In order to ensure students graduate with no more than 120 credits, the following is recommended: Students choosing English Emphasis A should take ENG 240 as a Flex Core course in U.S. Experience in its Diversity; students choosing English Emphasis B should take ENG 286 as a Flex Core course in Creative Expression.
3. Normally taken during Senior year. Seminar courses fulfill the upper-division Writing Intensive requirement. Requires Departmental permission.
4. Foreign Language and Science with Lab are NYS requirement and also fulfill the Common Core requirement. Students still need to fulfill other Foreign Language requirement under College Option.
5. Students won't be allowed to continue to take courses in Professional Sequence without a GPA of 3.0 in the Support Courses block.
6. ENG 126 also fulfills the Required Core: English Composition requirement.
7. EDUC 369 also fulfills the College Option Core: Writing Intensive requirement.

History Childhood Education (BA)

HEGIS Number 2205

History Childhood Education BA		
I. History Major Requirements		33
Choose one of the following courses		3
HIST201	Beginnings of the American People	3
HIST202	The Emergence of Urban America	3
HIST204	Contemporary America	3
HIST205	History of Women in the United States	3
HIST272	African-American History	3
HIST273	The American Worker	3
HIST274	The American Ethnic Experience	3
Choose one of the following courses		
HIST205	History of Women in the United States	3
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 15 History credits at the 200 level or above		15
II. Teacher Education Requirements		59
Students should consult the Admission and Progression policy for additional requirements. Students should meet with an Education advisor each semester to select classes that meet all requirements.		
A. Required Core Curriculum Courses		
	One Foreign Language course	3
Life and Physical Sciences		
BIO140	Human Biology	3
OR		
EHS140	Environmental Management	3
OR		
GEOL140	Our Earth	3
OR		
PHYS140	The Physical Universe	3
B. Support Courses		

ENG126	English Composition II: Writing About Literature	3
PHIL202	Major Ideas and Issues in Education (WI)	3
OR		
SOC202	Major Ideas and Issues in Education (WI)	3
MATH271	Topics in Foundational Mathematics	4
EDUC230	Teaching with Multimedia Technology	2
EDUC280	Child and Adolescent Development for Teachers	3
C. Professional Sequence		30
EDUC268	Bilingual and English Language Learner (ELL) Education	3
EDUC271	Adolescent and Youth Development	3
EDUC283	Education Psychology: Effective Teaching and Learning in Diverse Classrooms	3
EDUC285	Introduction to Special Education	3
EDUC352	Instructional Strategies in Middle School	3
EDUC323	Curriculum and Methods in Elementary Education: Mathematics	3
EDUC369	Early Language & Literacy for English Only and English Language Learners (WI)	3
EDUC370	Content Area Literacy Instruction For Mainstream English Only (EO) and English Language Learners (ELLs), Grades 2-6	3
EDUC390	Elementary Curriculum & Methods I: Learning Goals and Assessments Across Curriculum	3
EDUC392	Elementary Curriculum & Methods II: Instruction and Classroom Management Across Curriculum	3
D. Student Teaching		8
EDUC401	Capstone Clinical Experience & Seminar for Childhood Education, Grades 1-3	4
EDUC402	Capstone Clinical Experience & Seminar for Childhood Education, Grades 4-6	4
Credit Totals		
Total Program credits		92
Total Core Curriculum credits		27
Total free elective credits		1
Total credits for the BA in History Education		120

Notes:

1. HIST 201 or HIST 202 or HIST 204 or HIST 273 or HIST 274 also fulfill the Flexible Core: US Experience in its Diversity requirement.
2. Foreign Language is a NYS requirement and may also be taken toward fulfillment of the College Option Core: Foreign Language requirement. Students may be required to take a second Foreign Language course to complete the Core requirement.
3. BIO 140 or EHS 140 or GEOL 140 or PHYS 140 also fulfill the Required Core: Life and Physical Science requirement.
4. Students won't be allowed to continue to take courses in Professional Sequence without a GPA of 3.0 in the Support Courses block.

5. ENG126 also fulfills the Required Core: English Composition requirement.
6. EDUC 369 can also be taken toward fulfillment of the College Option Core: Writing Intensive requirement.

History Education/Middle School Extension (BA)

HEGIS Number 2205

History Education/Middle School Extension BA		
I. History Major Requirements		33
Choose one of the following courses		3
HIST201	Beginnings of the American People*	3
HIST202	The Emergence of Urban America*	3
HIST204	Contemporary America*	3
HIST205	History of Women in the United States	3
HIST272	African-American History	3
HIST273	The American Worker	3
HIST274	The American Ethnic Experience	3
Choose one of the following courses		
HIST205	History of Women in the United States	3
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 15 History credits at the 200 level or above		15
II. Teacher Education Requirements		59
Students should consult the Admission and Progression policy for additional requirements. Students should meet with an Education advisor each semester to select classes that meet all requirements.		
A. Required Core Curriculum Courses		
	One Foreign Language course	3
Life and Physical Sciences		
BIO140	Human Biology	3
OR		
EHS140	Environmental Management	3
OR		
GEOL140	Our Earth	3
OR		
PHYS140	The Physical Universe	3
B. Support Courses		
ENG126	English Composition II: Writing About Literature	3
PHIL202	Major Ideas and Issues in Education (WI)*	3
OR		
SOC202	Major Ideas and Issues in Education (WI)*	3
MATH271	Topics in Foundational Mathematics	4
EDUC230	Teaching with Multimedia Technology	2
EDUC280	Child and Adolescent Development for Teachers	3
C. Professional Sequence		30
EDUC268	Bilingual and English Language Learner (ELL) Education	3
EDUC271	Adolescent and Youth Development	3
EDUC283	Education Psychology: Effective Teaching and Learning in Diverse Classrooms	3
EDUC285	Introduction to Special Education	3
EDUC352	Instructional Strategies in Middle School	3
EDUC323	Curriculum and Methods in Elementary Education: Mathematics	3
EDUC369	Early Language & Literacy for English Only and English Language Learners (WI)	3
EDUC370	Content Area Literacy Instruction For Mainstream English Only (EO) and English Language Learners (ELLs), Grades 2-6	3
EDUC390	Elementary Curriculum & Methods I: Learning Goals and Assessments Across Curriculum	3

EDUC392	Elementary Curriculum & Methods II: Instruction and Classroom Management Across Curriculum	3
D. Student Teaching		8
EDUC401	Capstone Clinical Experience & Seminar for Childhood Education, Grades 1-3	4
EDUC402	Capstone Clinical Experience & Seminar for Childhood Education, Grades 4-6	4
Credit Totals		
Total Program credits		92
Total Core Curriculum credits		27
Total free elective credits		1
Total credits for the BA in History Education		120

Notes:

1. HIST 201 or HIST 202 or HIST 204 or HIST 273 or HIST 274 also fulfill the Flexible Core: US Experience in its Diversity requirement.
2. Foreign Language is a NYS requirement and may also be taken toward fulfillment of the College Option Core: Foreign Language requirement. Students may be required to take a second Foreign Language course to complete the Core requirement.
3. BIO 140 or EHS 140 or GEOL 140 or PHYS 140 also fulfill the Required Core: Life and Physical Science requirement.
4. Students won't be allowed to continue to take courses in Professional Sequence without a GPA of 3.0 in the Support Courses block.
5. ENG126 also fulfills the Required Core: English Composition requirement.
6. EDUC 369 can also be taken toward fulfillment of the College Option Core: Writing Intensive requirement.

Interdisciplinary Studies / Teacher Education 1-6 (BA)

HEGIS Number 4901

Interdisciplinary Studies / Teacher Education 1-6 BA		
I. Interdisciplinary Studies Requirements		35
A. History, Behavioral Sciences, Social Sciences		9
1. Choose one from the following:		
HIST201	Beginnings of the American People	3
HIST202	The Emergence of Urban America	3
HIST204	Contemporary America	3
2. Choose one from the following:		
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
HIST400	Seminar in History	3

HIST490	Senior Research in History	3
3. Choose one from the following:		
YD289	Understanding Youth Culture in an Urban Context	3
OR		
	One course from Anthropology, Black Studies, Economics, Political Science, Psychology, or Sociology at the 200-level or above	3
B. Literature, Art, Music, Theatre		9
1. United States Literature and British Literature		
Choose one from the following:		
ENG240	Literary Traditions in the U.S.	3
ENG350	American Voices and Visions I	3
ENG351	American Romanticism	3
ENG352	American Voices and Visions II	3
ENG353	Nineteenth-Century American Literature	3
ENG355	Twentieth-Century American Literature	3
ENG357	The Literature of the Harlem Renaissance	3
ENG318	Shakespeare: The Major Works	3
ENG328	Medieval and Renaissance Literature	3
ENG333	Restoration and Eighteenth-Century Literature	3
ENG343	The Romantic Period in England	3
ENG344	Victorian Literature	3
ENG345	Twentieth-Century British Literature	3
2. Literature from Diverse Cultures		
Choose one from the following:		
ENG390	Caribbean Literatures in English	3
ENG391	Topics in Global Literatures	3
ENG392	African-American Literature	3
ENG395	Women Writers	3
OR		
	Any World Literature course offered by the Department of World Languages, Literatures, and Humanities	3
3. Performing and Fine Arts		
Choose one from the following:		
FA101	Visual Elements: 2-Dimensional	3
FA102	Visual Elements: 3-Dimensional	3
FA105	Introduction to Fine Arts: Caves to Cathedrals	3
FA106	Introduction to Fine Arts: Cathedrals to Contemporary	3
MUS101	Introduction to Music	3
TA110	Introduction to the Theatre	3
C. Mathematics		8
MATH271	Topics in Foundational Math I	4
MATH272	Topics in Foundational Math II	4
D. Writing		3
WRIT301	Research and Writing for the Major	3
E. Philosophy		3
PHIL351	Ethics	3
F. Interdisciplinary Studies Seminar and Philosophy		3
IS400	Senior Seminar	3
II. Teacher Education Requirements		49

A. Required Core Curriculum Courses		
	One Foreign Language course	3
Life and Physical Sciences		
BIO140	Human Biology	3
OR		
EHS140	Environmental Management	3
OR		
GEOL140	Our Earth	3
OR		
PHYS140	The Physical Universe	3
B. Support Courses		11
ENG126	English Composition II: Writing About Literature	3
PHIL202	Major Ideas and Issues in Education	3
OR		
SOC202	Major Ideas and Issues in Education	3
EDUC230	Teaching with Multimedia Technology	2
EDUC280	Child and Adolescent Development for Teachers	3
C. Professional Sequence		24
EDUC268	Teaching the Linguistically Diverse Student and Mainstream Classes	3
EDUC283	Effective Teaching and Learning in Diverse Classrooms	3
EDUC285	Introduction to Special Education	3
EDUC323	Curriculum and Methods in Elementary Education: Mathematics	3
EDUC369	Early Language & Literacy for English Only and English Language Learners (EO's & ELLs) (WI)	3
EDUC370	Content Area Literacy Instruction For Mainstream English Only (EO) and English Language Learners (ELLs), Grades 2-6	3
EDUC390	Elementary Curriculum & Methods I: Learning Goals and Assessments Across Curriculum	3
EDUC392	Elementary Curriculum & Methods II: Instruction and Classroom Management Across Curriculum	3
D. Student Teaching		8
EDUC401	Capstone Clinical Experience & Seminar for Childhood Education, Grades 1-3	4
EDUC402	Capstone Clinical Experience & Seminar for Childhood Education, Grades 4-6	4
Credit Totals		
Total Program credits		84
Total Core Curriculum credits		30
Total free elective credits		6
Total credits for the BA in Childhood Education/ Interdisciplinary Studies		120

Notes:

1. Courses taken to fulfill Required Core or Flexible Core curriculum requirements may not be used to fulfill Interdisciplinary Studies program requirements.

2. MATH 271 fulfills an Interdisciplinary Studies and Teacher Education requirement. Credits for the course are included in the Interdisciplinary Studies credit subtotal.
3. Students who have already completed WRIT 302, WRIT 303, or WRIT 304 may substitute that course for WRIT 301.
4. EDUC 369 or IS 400 may also be taken toward fulfillment of the College Option Core: Writing Intensive requirement.
5. Foreign Language is a NYS requirement and may also be taken toward fulfillment of the College Option Core: Foreign Language requirement. Students may be required to take a second Foreign Language course to complete the Core requirement.
6. BIO 140 or EHS 140 or GEOL 140 or PHYS 140 also fulfill the Required Core: Life and Physical Science requirement. A science course with laboratory component is a NYS requirement.
7. Students won't be allowed to continue to take courses in Professional Sequence without a GPA of 3.0 in the Support Courses block.
8. ENG 126 also fulfills the Required Core: English Composition requirement.

Mathematics Childhood Education (BA)

HEGIS Number 1701

Mathematics Childhood Education BA		
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**		4
**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:		12
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
EDUCATION COURSE REQUIREMENTS 34 Credits 34		
Foundations Sequence		
EDUC230	Teaching with Multimedia Technology	2
EDUC268	Teaching the Linguistically Diverse Student and Mainstream Classes	3
EDUC280	Child and Adolescent Development for Teachers	3
or		
PSY215	Human Development I: Infancy/ Childhood	3
EDUC283	Effective Teaching and Learning in Diverse and Inclusive Classrooms	3
MATH271	Mathematics for Elementary School Teachers	4
PHIL202	Major Ideas and Issues in Education	3
or		
SOC202	Major Ideas and Issues in Education	3
Professional Education Sequence 15		
EDUC323	Curriculum and Methods in Elementary Education: Mathematics	3
EDUC369	Early Language & Literacy for English Only and English Language Learners (EO's & ELLs) (WI)	3
EDUC370	Content Area Literacy Instruction For Mainstream English Only (EO) and English Language Learners (ELLs), Grades 2-6	3
EDUC390	Elementary Curriculum & Methods I: Learning Goals and Assessments Across Curriculum	3
EDUC392	Elementary Curriculum & Methods II: Instruction and Classroom Management Across Curriculum	3
Student Teaching and Student Teaching Seminar 6		
EDUC431	Supervised Student Teaching, Grades 1 - 3	3
EDUC432	Supervised Student Teaching, Grades 4 - 6	3
	total	71 Credits

Mathematics/Teacher Education 5-9 (BS)

HEGIS Number 1701

Mathematics/Teacher Education 5-9 BS		
Required Core Curriculum Courses		10
This program has received a waiver to require that students take the following courses in fulfillment of Core Curriculum requirements. Students who do not take these courses to fulfill Core requirements may not be able to complete the major in 120 credits.		
BIO140	Human Biology	3
OR		
EHS140	Environmental Management	3
OR		
GEOL140	Our Earth	3
OR		
PHYS140	The Physical World	3
MATH121	Calculus I	4
	One foreign language course	3
Mathematics Requirements		42
MATH104	College Algebra	3
MATH111	Introduction to Statistics and Probability	4
MATH117	Math for Social Justice	3
MATH120	Pre-Calculus	4
MATH121	Calculus I	4
MATH122	Calculus II	4
MATH201	Statistics for Educators	3
MATH225	Discrete Mathematics	4
MATH230	Theory of Numbers	4
MATH245	Geometry and Measurement	3
MATH322	Quantitative Approaches to Urban Problem Solving	3
MATH479	History of Mathematics	3
Teacher Education Courses		
Students should consult the Admission and Progression Policy for additional requirements. Students should meet with an Education advisor each semester to select classes that meet all requirements.		
Teacher Education Support Courses		15
ENG126	English Composition II: Writing About Literature	3
PHIL202	Major Ideas and Issues in Education (WI)	3
MATH121	Calculus I	4
EDUC230	Teaching with Multimedia Technology	2
EDUC271	Adolescent and Youth Development (WI)	3
Professional Sequence		21
EDUC268	Bilingual and English Language Learner (ELL) Education	3
EDUC283	Educational Psychology: Effective Teaching and Learning in Diverse Classrooms	3
EDUC285	Introduction to Special Education	3
EDUC290	Middle Childhood Development in Mathematics	3
EDUC340	Literacy Instruction inside Middle and Secondary Schools (WI)	3

EDUC373	Secondary Curriculum and Methods II: Instruction and Classroom Environments in Mathematics	3
EDUC395	Curriculum and Methods in Subject Specific (K-12) Education I: Learning Goals and Assessments	3
Student Teaching		12
EDUC407	Student Teaching Seminar: Mathematics Grades 5-6	6
EDUC408	Student Teaching Seminar: Mathematics Grades 7-9	6
Credit Totals		
Total Program Credits		92
Total Core Curriculum Credits		27
Total Free Elective Credits		1
Total Credits for the BS in Mathematics Education 5-9		120

Mathematics Education/Middle School Extension (BA)

HEGIS Number 1701

Mathematics Education/Middle School Extension BA		
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		77
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**		4
**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		12

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
Education Course Requirements		
Foundations Sequence		
AC230	Teaching with Multimedia Technology	2
EDUC268	Bilingual and ELL Education	2
EDUC280	Child and Adolescent Development for Teachers	3
EDUC283	Educational Psychology: Effective Teaching and Learning in Diverse and Inclusive Classrooms	3
EDUC284	Field Experience in Teaching and Learning	1
MATH271	Mathematics for Elementary School Teachers	4
PHIL202	Major Ideas and Issues in Education	3
or		
SOC202	Major Ideas and Issues in Education	3
Professional Education Sequence		
EDUC271	Adolescent Development in Middle and High Schools	3
EDUC317	Curriculum and Methods in Elementary Education: Science	2
EDUC318	Curriculum and Methods in Health and Physical Education for Elementary School	2
EDUC323	Curriculum and Methods in Elementary Education: Mathematics	2
EDUC333	Constructing Social Studies Relationships through Expressive Arts	2
EDUC352	Instructional Strategies in Middle and High Schools	3
EDUC369	Early Language and Literacy	3
EDUC370	Content Area Literacy 2 - 6 EO and ELL	3
Student Teaching and Student Teaching Seminar		
EDUC431	Supervised Student Teaching, Grades 1 - 3	3
EDUC432	Supervised Student Teaching, Grades 4 - 6	3

*Note: Mathematics BA requires 90 Liberal Arts Credits and the Mathematics BS requires 60 Liberal Arts Credit to graduate.

Mathematics Education 7-12 (BS)

HEGIS Number 1701

Mathematics Education 7 - 12 BS		
Required Core Curriculum Courses		
This program has received a waiver to require that students take the following courses in fulfillment of Core Curriculum requirements. Students who do not take these courses to fulfill Core requirements may not be able to complete the major in 120 credits.		
BIO140	Human Biology	3
OR		

EHS140	Environmental Management	3
OR		
GEOL140	Our Earth	3
OR		
PHYS140	The Physical Universe	
MATH121	Analytical Geometry & Calculus I	4
	Upper-level Writing Intensive course	3
	One Foreign Language course	3
Mathematics Requirements		38-39
MATH121	Analytical Geometry and Calculus I	4
MATH122	Analytical Geometry & Calculus II	4
MATH221	Analytical Geometry & 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
MATH481	Seminar in Contemporary Mathematics	1
OR		
MATH482	Seminar in Contemporary Mathematics	1
OR		
MATH483	Seminar in Contemporary Mathematics	1
OR		
MATH484	Seminar in Contemporary Mathematics	1
OR		
MATH485	Seminar in Contemporary Mathematics	1
OR		
MATH486	Seminar in Contemporary Mathematics	1
OR		
MATH487	Seminar in Contemporary Mathematics	1
OR		
MATH488	Seminar in Contemporary Mathematics	1
OR		
MATH489	Seminar in Contemporary Mathematics	1
MATH479	History and Philosophy of Mathematics (WI)	3
	One additional course in Mathematics or Computer Science at the 200-level or above	3-4
Teacher Education Requirements		43
Students should consult the Admission and Progression Policy for additional requirements. Students should meet with an Education advisor each semester to select classes that meet all requirements.		
A. Required Core Curriculum Courses		6
	One Foreign Language course	3
BIO140	Human Biology	3
OR		
EHS140	Environmental Management	3
OR		
GEOL140	Our Earth	3
OR		
PHYS140	The Physical Universe	3
B. Support Courses		11

ENG126	English Composition II: Writing About Literature	3
PHIL202	Major Ideas and Issues in Education (WI)	3
OR		
SOC202	Major Ideas and Issues in Education (WI)	3
MATH121	Analytical Geometry and Calculus I	4
EDUC230	Teaching with Multimedia Technology	2
EDUC271	Adolescent and Youth Development	3
C. Professional Sequence		18
EDUC268	Bilingual and English Language Learner (ELL) Education	3
EDUC283	Educational Psychology: Effective Teaching and Learning in Diverse Classrooms	3
EDUC285	Introduction to Special Education	3
EDUC340	Literacy Instruction inside Middle and Secondary Schools (WI)	3
EDUC373	Curriculum and Methods in the Secondary Education Classroom II: Mathematics Instruction and Classrooms	3
EDUC395	Curriculum and Methods in Subject Specific (K-12) Education I: Learning Goals and Assessments	3
D. Student Teaching and Student Teaching		8
EDUC405	Capstone Clinical Experience & Seminar for Secondary Education, Grades 7-9	4
EDUC406	Capstone Clinical Experience & Seminar for Secondary Education, Grades 10-12	4
Credit Totals		
Total Program credits		81-82
Total Core Curriculum credits		27
Total free elective credits		11-12
Total credits for the BS in Mathematics Education 7-12		120

Notes:

1. BIO 140 or EHS 140 or GEOL 140 or PHYS 140 also fulfills the Required Core: Life and Physical Sciences requirement.
2. MATH 121 also fulfills the Required Core: Mathematical and Quantitative Reasoning requirement.
3. Students who do not place directly into MATH 121 may have to take up to 8 credits of prerequisite mathematics courses. Those credits subtract from the Free Electives credit total.
4. Students may take MATH 479 or EDUC 340 toward fulfillment of the College Option Core: Writing Intensive requirement.
5. Foreign Language is a NYS requirement and may also be taken toward fulfillment of the College Option Core: Foreign Language requirement. Students may be required to take a second Foreign Language course to complete the Core requirement.
6. ENG 126 also fulfills the Required Core: English Composition requirement.
7. Students must be admitted to a Teacher Education program in order to progress into and through the professional sequence.

Spanish Childhood Education / Bilingual Extension (BA)

HEGIS Number 1105

Spanish Childhood Education / Bilingual Extension		
I. Spanish Major Requirements		36
A. Take the following courses		18
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
B. Choose one of the following:		
SPAN201	Hispanic-American Literature from its Origin Through Modernismo	3
SPAN202	Hispanic-American Literature after Modernismo	3
C. Choose one of the following:		
SPAN221	Spanish Literature to 1700	3
SPAN222	Spanish Literature 1700-Present	3
D. Electives		12
Select 12 credits from the following; at least 6 credits must be at the 200-level or above		
SPAN106	Intermediate Spanish Composition	3
	Any SPAN discipline courses at the 200-level or above	9-12
II. Teacher Education Requirements		53
A. Required Core Curriculum Courses		3
Life and Physical Sciences		
BIO140	Human Biology	3
OR		
EHS140	Environmental Management	3
OR		
GEOL140	Our Earth	3
OR		
PHYS140	The Physical Universe	3
B. Support Courses		15
ENG126	English Composition II: Writing About Literature*	3
PHIL202	Major Ideas and Issues in Education (WI)*	3
OR		
SOC202	Major Ideas and Issues in Education (WI)*	3
MATH271	Topics in Foundational Mathematics	4
EDUC230	Teaching with Multimedia Technology	2
EDUC280	Child and Adolescent Development for Teachers	3
C. Professional Sequence		27
EDUC268	Bilingual and English Language Learner (ELL) Education	3
EDUC283	Educational Psychology: Effective Teaching and Learning in Diverse Classrooms	3
EDUC285	Introduction to Special Education	3

EDUC323	Curriculum and Methods in Elementary Education: Mathematics	3
EDUC351	Teaching Reading and Spanish Language Arts in Bilingual Contexts	3
EDUC369	Early Language & Literacy for English Only and English Language Learners (WI)	3
EDUC370	Content Area Literacy Instruction For Mainstream English Only (EO) and English Language Learners (ELLs), Grades 2-6	3
EDUC390	Curriculum and Methods in Elementary Education I: Learning Goals & Assessments	3
EDUC392	Elementary Methods II: Instruction and Classroom Environments	3
D. Student Teaching and Student Teaching Seminar		8
EDUC401	Capstone Clinical Experience & Seminar for Childhood Education, Grades 1-3	4
EDUC402	Capstone Clinical Experience & Seminar for Childhood Education, Grades 4-6	4
Credit Totals		
Total Program Credits		89
Total Core Curriculum credits		27-30
Total free elective credits		1-4
Total credits		120

Notes:

1. Placement in Spanish courses is determined following evaluation by the World Languages, Literatures, and Humanities department.
2. Any 6 credits of SPAN courses in the major may also be taken to fulfill the College Option Core: Foreign Language requirement.
3. A science course with laboratory component is a NYS requirement.
4. BIO 140 or EHS 140 or GEOL 140 or PHYS 140 may also be taken toward fulfillment of the Required Core: Life and Physical Sciences requirement.
5. Students won't be allowed to continue to take courses in Professional Sequence without a GPA of 3.0 in the Support Courses block.
6. ENG 126 also partially fulfills the Required Core: English Composition requirement.
7. EDUC 369 may also be taken toward fulfillment of the College Option Core: Writing Intensive requirement.
8. Twelve Core Curriculum credits -ENG 126; Required Core: Life and Physical Sciences; 6 credits of SPAN toward the College Option Core: Foreign Language - are included in the Program credit total.

Spanish Childhood Education (BA)

HEGIS Number 1105

Spanish Childhood Education BA		
I. Spanish Major Requirements		36
A. Take the following courses		18

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
B. Choose one of the following:		3
SPAN201	Hispanic-American Literature from its Origin Through Modernismo	3
SPAN202	Hispanic-American Literature after Modernismo	3
C. Choose one of the following:		3
SPAN221	Spanish Literature to 1700	3
SPAN222	Spanish Literature 1700-Present	3
D. Electives		12
Select 12 credits from the following; at least 6 credits must be at the 200-level or above		
SPAN106	Intermediate Spanish Composition	3
	Any SPAN discipline courses at the 200-level or above	9-12
II. Teacher Education Requirements		53
Students should consult the Admission and Progression Policy for additional requirements. Students should meet with an Education advisor each semester to select classes that meet all requirements.		
A. Required Core Curriculum Courses		3
Life and Physical Sciences		
BIO140	Human Biology	3
OR		
EHS140	Environmental Management	3
OR		
GEOL140	Our Earth	3
OR		
PHYS140	The Physical Universe	3
B. Support Courses		15
ENG126	English Composition II: Writing About Literature*	3
PHIL202	Major Ideas and Issues in Education (WI)*	3
OR		
SOC202	Major Ideas and Issues in Education (WI)*	3
MATH271	Topics in Foundational Mathematics	4
EDUC230	Teaching with Multimedia Technology	2
EDUC280	Child and Adolescent Development for Teachers	3
C. Professional Sequence		27
EDUC268	Bilingual and English Language Learner (ELL) Education	3
EDUC283	Educational Psychology: Effective Teaching and Learning in Diverse Classrooms	3
EDUC285	Introduction to Special Education	3
EDUC323	Curriculum and Methods in Elementary Education: Mathematics	3
EDUC351	Teaching Reading and Spanish Language Arts in Bilingual Contexts	3
EDUC369	Early Language & Literacy for English Only and English Language Learners (WI)	3

EDUC370	Content Area Literacy Instruction For Mainstream English Only (EO) and English Language Learners (ELLs), Grades 2-6	3
EDUC390	Curriculum and Methods in Elementary Education I: Learning Goals & Assessments	3
EDUC392	Elementary Methods II: Instruction and Classroom Environments	3
D. Student Teaching		8
EDUC401	Capstone Clinical Experience & Seminar for Childhood Education, Grades 1-3	4
EDUC402	Capstone Clinical Experience & Seminar for Childhood Education, Grades 4-6	4
Credit Totals		
Total Program credits		89
Total Core Curriculum credits		27-30
Total free elective credits		1-4
Total credits		120

Notes:

1. Placement in Spanish courses is determined following evaluation by the World Languages, Literatures, and Humanities department.
2. Any 6 credits of SPAN courses in the major may also be taken to fulfill the College Option Core: Foreign Language requirement.
3. A science course with laboratory component is a NYS requirement.
4. BIO 140 or EHS 140 or GEOL 140 or PHYS 140 may also be taken toward fulfillment of the Required Core: Life and Physical Sciences requirement.
5. Students won't be allowed to continue to take courses in Professional Sequence without a GPA of 3.0 in the Support Courses block.
6. ENG 126 also partially fulfills the Required Core: English Composition requirement.
7. EDUC 369 may also be taken toward fulfillment of the College Option Core: Writing Intensive requirement.
8. Twelve Core Curriculum credits - ENG 126; Required Core: Life and Physical Sciences; 6 credits of SPAN toward the College Option Core: Foreign Language - are included in the Program credit total.

Special Education (Minor)

EFFECTIVE FALL 2020		
Minor in Special Education		12
PSY215	Human Development I: Infancy/Childhood	3
OR		
EDUC280	Child and Adolescent Development for Teachers (prerequisite of PSY335)	3
EDUC285	Introduction to Special Education	3
EDUC286	Adaptive Technology for Students with Special Needs	3
PSY335	(Liberal Arts) Exceptional Child	3

Notes:

ENG125 is the prerequisite of EDUC285, PSY335, and fulfills the Required Core requirement.

MUS279	History of Hip Hop***	3
PSY216	Human Development: Adolescence/ Maturity***	3
Total Credits		11-12

Youth Studies (Minor)

Youth Studies Minor		
Requirements for the Minor*		
YD289	Understanding Youth in the Urban Context	3
YD290	Action Research for Practitioners	2
Choose one from the following:		
YS301	Independent Study in Youthwork Practice	4
HIST389	The American Teenager: Rewriting History	3
YS389	The American Teenager: Rewriting History	3
Choose one from the following:		
EDUC271	Adolescent and Youth Development**	3
HIST279	History of Hip Hop***	3

* Courses fulfilling requirements in the Youth Studies minor may not be used to fulfill requirements of the student's major or another minor.

** All non Teacher Education majors and Teacher Education majors in Childhood Education, Health Education, or Physical Education Teacher Programs must take EDUC 271.

*** Teacher Education majors in Secondary (grades 7-12) or Middle School (grades 6-9) Extension programs must take HIST 279/MUS 279 or PSY 216.

Listing of Courses

Listing of Courses by Program

Academic Computing

AC101 (Not Liberal Arts) Computer Literacy 1.5 hrs. 1 crs. 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. 30 minute lecture, 1 hour laboratory. This course may be offered as a Hybrid Course.

AC102 (Not Liberal Arts) Introduction to Microcomputers II 3 hrs. 1 crs. 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 (Not Liberal Arts) Computer Applications 3 hrs. 3 crs. 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. Not open to students with credit in BUS 201. Sophomores and above only. Students will be required to complete weekly assignments using the microcomputer.

AC230 (Not Liberal Arts) Teaching with Multimedia Technology 4 hrs. 2 crs. Students learn the foundations for using multimedia technology in the classroom, become proficient with multimedia technology, study issues of equity related to educational technology, and understanding NYS K-12 learning standards for technology. Students design curriculum integrating the Internet and student-produced multimedia projects. Not open to students with credit in AC 250. This course may be offered as a Hybrid Course.

Accounting

ACC100 (Not Liberal Arts) Introduction to Accounting 3 hrs. 3 crs. This is a survey course that will introduce basic accounting principles, concepts, and procedures to students with no previous accounting exposure and limited college course experience. It will emphasize the importance of financial statements and the decision-making process. AREQ: ACC 101 and above.

ACC101 (Not Liberal Arts) Principles of Accounting I 4 (2 hours lecture, 2 hours recitation) hrs. 3 crs. Fundamental accounting theory and practice; entry and posting of typical transactions: trial balances and work sheets; cash receivables; inventory; current liabilities; income statements; balance sheets; and introduction to financial analysis concepts. Coreq: Completion of Required Core: Mathematical and Quantitative Reasoning requirement.

ACC102 (Not Liberal Arts) Principles of Accounting II 4 (2 hours lecture, 2 hours recitation) hrs. 3 crs. Fixed assets and depreciation; partnerships; corporations; analyzing financial statements; cash flow statements; recording bond transactions; accounting principles; classified balance sheet. Preq: ACC 101.

ACC103 (Not Liberal Arts) Principles of Managerial Accounting 4 (2 hours lecture, 2 hours laboratory) hrs. 3 crs. 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. Topics include: capitalization of a corporation; current liabilities; including payroll; financial reporting and analysis; financial performance and analysis; the new business environment; cost concepts and behavior analysis; budgeting; performance management; and decision-making analysis. This course can be offered in a face-to-face or online hybrid format. Preq: ACC 101, Not open to Accounting majors, Accounting minors, Finance majors, or Finance minors.

ACC201 (Not Liberal Arts) Intermediate Accounting I 4 hrs. 3 crs. 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. Preq: ACC 102 (Formerly ECON 280).

ACC202 (Not Liberal Arts) Intermediate Accounting II 4 hrs. 3 crs. 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. Preq: ACC 201.

ACC203 (Not Liberal Arts) Intermediate Accounting III 4 hrs. 3 crs. 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: ACC 201. Coreq: ACC 202.

ACC210 (Not Liberal Arts) Computer Applications in Accounting (2 hours lecture, 2 hours laboratory) 4 hrs. 3 crs. 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 101. Coreq: ACC 101. This course may be offered in a face-to-face, hybrid or asynchronous online format.

ACC238 (Not Liberal Arts) Fraud Examination 3 hrs. 3 crs. 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 schemes, non-cash misappropriations, corruption, accounting principles and fraud, fraudulent financial statements, and interviewing witnesses. Preq: ACC 102 OR ACC 103. Not open to students with credit in ACC 338. This course can be offered in a face-to-face or online hybrid format.

ACC240 (Not Liberal Arts) International Accounting 3 hrs. 3 crs. 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. This course may be offered in a face-to-face, hybrid or asynchronous online format.

ACC245 (Not Liberal Arts) Budgeting and Comptrollership Accounting 3 hrs. 3 crs. This course focuses on the roles, functions, and responsibilities of the corporate comptroller and treasurer. It addresses the budgeting process, decision-making models, profit planning and performance analysis. Design, installation, and implementation of management information systems for planning operations, reporting performance, and administering the firm are also covered. Coreq: ACC 201.

ACC251 (Not Liberal Arts) Financial Statement Analysis 3 hrs. 3 crs. Analysis and interpretation of financial statements primarily by external decision makers. Fundamental analysis techniques in equity (share) evaluation decisions. Credit assessment and debt valuation decisions. Measures of liquidity, solvency, capital structure, return on investments, and operating performance. Impact of accounting conventions and alternative standards on analytical measures. Preq: ACC 201.

ACC260 (Not Liberal Arts) Internal Audit I 3 hrs. 3 crs. Explain the primary conceptual frameworks that form the basis of the internal auditing profession and review the professional standards and practices that guide an internal audit. To define the roles and responsibilities of the internal auditor in assessing enterprise risk and in establishing or enhancing controls to mitigate such risk. To describe auditing tests and techniques that support the internal auditor in assessing the governance, risk management, and process controls of an enterprise. This course can be offered in a face-to-face or a hybrid online format. Preq: ACC 201.

ACC261 (Not Liberal Arts) Internal Audit II 3 hrs. 3 crs. Introduction to the assurance engagement process. The topics in this course include the communication skills necessary and the risks encountered in conducting the assurance engagement. Additional topics covered in this course include: audit evidence, working papers, audit sampling, ethics and communicating assurance engagement outcomes. This course can be offered as a face-to-face course, or a hybrid course. Preq: ACC 260.

ACC290 (Not Liberal Arts) Accounting Internship 45 hrs. 1 crs. Practical learning experience in accounting focused on applying theory learned to various aspects of accounting application. Applied study concentrating on a chosen field of the profession. Preq: ACC 101; Department permission is required.

ACC291 (Not Liberal Arts) Accounting Internship 90 hrs. 2 crs. Practical learning experience in accounting focused on applying theory learned to various aspects of accounting application. Applied study concentrating on a chosen field of the profession. Preq: ACC 101; Department permission is required.

ACC292 (Not Liberal Arts) Accounting Internship 135 hrs. 3 crs. Practical learning experience in accounting focused on applying theory learned to various aspects of accounting application. Applied study concentrating on a chosen field of the profession. Preq: ACC 101; Department permission is required.

ACC293 (Not Liberal Arts) Accounting Internship 135 hrs. 3 crs. Practical learning experience in accounting focused on applying theory learned to various aspects of accounting application. Applied study concentrating on a chosen field of the profession. Preq: ACC 292; Department permission is required.

ACC301 (Not Liberal Arts) Advanced Financial Accounting 4 (2 hours lecture, 2 hours recitation) hrs. 3 crs. 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. Not open to students with credit in ECON 288.

ACC310 (Not Liberal Arts) Information Systems Audit 3 hrs. 3 crs. This course focuses on auditing in a computer systems environment. Businesses reliance upon the capabilities of computer information systems is becoming widespread thus it becomes increasingly important for auditors to understand this environment and how it relates to financial and general organizational controls. Topics include: systems documentation techniques, transactions cycles, audit programs, evidence, computer fraud, control concepts and management practices. This course may be offered in a face-to-face or hybrid format. Preq: ACC 260.

ACC335 (Not Liberal Arts) Auditing I 4 hrs. 3 crs. Analysis of auditing concepts, standards, procedures, ethics, responsibility, independence of public accountants, audit program, scope, evidence, and statistical sampling. Preq: ACC 202. This course can be offered as a face-to-face course, a hybrid course, or as a fully online asynchronous course.

ACC336 (Not Liberal Arts) Auditing II 2 hrs. 2 crs. 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.

ACC339 (Not Liberal Arts) Advanced Fraud Examination 3 hrs. 3 crs. This course teaches advanced concepts in the growing field of fraud examination and forensic accounting. Topics will include criminology and ethics; complex frauds and financial crimes; cybercrime; the role of information technology in the commission and investigation of fraud; future crimes; consulting, litigation support, and expert witness engagements; remediation and litigation advisory services; and careers in fraud examination and forensic accounting. Preq: ACC 238.

ACC345 (Not Liberal Arts) Cost Accounting 4 hrs. 3 crs. This course focuses on basic concepts, analyses, uses, and procedures of cost accounting. Topics include: systems for cost accumulation, joint and by-products, budgeting, job order costing, standard costing, direct costing, process costing, cost-volume-profit, and activity based costing. Preq: ACC 201. 2 hours lecture, 2 hours recitation.

ACC346 (Not Liberal Arts) Cost Accounting II 2 hrs. 2 crs. 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 (Not Liberal Arts) Income Taxation 4 hrs. 3 crs. This course explores the comprehensive analysis of the Internal Revenue Code and concepts as they apply to individual and corporate income taxes. Topics include basic tax model, gross income inclusions and exclusions, deductions, property transactions, and corporations. This course can be offered in a face-to-face or hybrid online format. This is a writing intensive course. Preq: ACC 201. (2 hours lecture; 2 hours recitation).

ACC351 (Not Liberal Arts) Advanced Income Taxation 4 hrs. 4 crs. Advanced Income Taxation including discussions of advanced corporate, foreign, estate and gift taxation, and other specialized areas. Requires preparing a research paper. This course can be offered in a face-to-face or hybrid online format. Preq: ACC 350.

ACC355 (Not Liberal Arts) Taxation of Trusts and Estates 3 hrs. 3 crs. 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. (3 hours lecture).

ACC381 (Not Liberal Arts) Advanced Accounting Problems 3 hrs. 3 crs. Securities and Exchange Commission problems with an emphasis on professional pronouncements and CPA examination problems. This course can be offered in a face-to-face or a hybrid online format. Preq: ACC 203.

ACC401 (Not Liberal Arts) Advanced Topics in Internal Audit 3 hrs. 3 crs. This course has been designed with topics to prepare students for the responsibilities and challenges faced as an auditor in charge of performing an audit engagement. This course will explore the key components of managing the audit group. The detection of fraud, technology and the internal audit quality assurance review will be discussed in the course. This course can be offered as a face-to-face course, or a hybrid course. Preq: ACC 261.

ACC491 (Not Liberal Arts) Accounting Independent Study I 1 hrs. 1 crs. Under the supervision of a faculty member in the department, students will complete a research project on a topic relevant to the nature and scope of accounting. The research project must be preapproved and guided by the faculty member. Students will also periodically meet with the faculty mentor to assess progress. By the end of the semester, students will communicate their research findings orally and/or written. Preq: Department permission required.

ACC492 (Not Liberal Arts) Accounting Independent Study II 2 hrs. 2 crs. Under the supervision of a faculty member in the department, students will complete a research project on a topic relevant to the nature and scope of accounting. The research project must be preapproved and guided by the faculty member. Students will also periodically meet with the faculty mentor to assess progress. By the end of the semester, students will communicate their research findings orally and/or written. Preq: Department permission required.

ACC 493 (Not Liberal Arts) Accounting Independent Study III 3 hrs. 3 crs. Under the supervision of a faculty member in the department, students will complete a research project on a topic relevant to the nature and scope of accounting. The research project must be preapproved and guided by the faculty member. Students will also periodically meet with the faculty mentor to assess progress. By the end of the semester, students will communicate their research findings orally and/or written. Preq: Department permission required.

Anthropology

ANTH101 (Liberal Arts) Introduction to Cultural Anthropology 3 hrs. 3 crs. 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. [Flexible Core: World Cultures and Global Issues]

ANTH103 (Liberal Arts) Introduction to Physical Anthropology and Archaeology 4 hrs. 3 crs. 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 crs. 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. This course may be offered in a face-to-face or asynchronous online format. [Flexible Core: Scientific World]

ANTH201 (Liberal Arts) Ethnopsychiatry 3 hrs. 3 crs. 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.

ANTH205 (Liberal Arts) Anthropology of Sex 3 hrs. 3 crs. 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. [Flexible Core: Individual and Society]

ANTH211 (Liberal Arts) Anthropology and City Life 3 hrs. 3 crs. 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. [Flexible Core: Individual and Society]

ANTH220 (Liberal Arts) Social Research Methods I 4 hrs. 3 crs. Introduction to the logic of inquiry; qualitative and quantitative methods of data collection and analysis; introduction to statistical analysis; writing and interpreting research reports; using computers for statistical analysis. Experimental, survey, and ethnographic methods will be emphasized. Preq: ANTH 101 or SOC 101 or POL 101 or POL 103. Cross-listed with SOC 220 and POL 222. This course may be offered in a face-to-face or hybrid format. Not open to students with credit in SOC 220 or POL 222 or SCWK 350. 2 hours lecture, 2 hours laboratory.

ANTH222 (Liberal Arts) The Archaeology of Early Man 3 hrs. 3 crs. 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 crs. Human prehistory from the origins of settled village life to early civilizations. The emergence of regional patterns, urbanization, and social stratification with emphasis on the primary civilizations of Egypt, Mesopotamia, India, China, Mexico and Peru. Field trips may be required. Not offered on a regular basis. Availability to be determined by the department. [Flexible Core: World Cultures and Global Issues]

ANTH234 (Liberal Arts) Applied Anthropology 3 hrs. 3 crs. The application of anthropological knowledge and techniques in the introduction of Western medical, agricultural and educational technology to non-Western societies; problems and ethics of directed socio-cultural change will be analyzed and principles of directed change will be developed. Not offered on a regular basis. Availability to be determined by the department.

ANTH235 (Liberal Arts) Economic Anthropology 3 hrs. 3 crs. 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 crs. Survey of traditional and contemporary societies of Africa; their exposure to a changing world and their responses. Preq: ANTH 101. Not open to students with credit in ANTH 341. Course sections may be offered as asynchronous online courses. This course will use the Blackboard

course management system. Students must have an email account, access to the Internet, and use word processing software. Not offered on a regular basis.

ANTH242 (Liberal Arts) Ethnology and Ethnography of Asia 3 hrs. 3 crs. Survey of traditional and contemporary societies of a given area; their exposure to a changing world and their responses. Preq: ANTH 101. Not open to students with credit in ANTH 342. Not offered on a regular basis. Availability to be determined by the department.

ANTH243 (Liberal Arts) Ethnology and Ethnography of The Caribbean 3 hrs. 3 crs. Survey of Caribbean societies that explores processes forming Caribbean cultural diversity-histories, migration, slavery, trade, ethnicity, gender, conflict, politics and economics. Preq: ANTH 101. Availability to be determined by the department. This course may be offered in a face-to-face or hybrid format.

ANTH244 (Liberal Arts) Ethnology of Latin America 3 hrs. 3 crs. Survey of traditional and contemporary societies of Latin America; their exposure to a changing world and their responses. Preq: ANTH 101. Not open to students with credit in ANTH 344. 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 The Mediterranean, Middle East 3 hrs. 3 crs. Survey of traditional and contemporary societies of a given area; their exposure to a changing world and their responses. Preq: ANTH 101. Not open to students with credit in ANTH 341-348. Not offered on a regular basis. Availability to be determined by the department.

ANTH246 (Liberal Arts) Ethnology and Ethnography of North American Indians 3 hrs. 3 crs. Survey of traditional and contemporary societies of a given area; their exposure to a changing world and their responses. Preq: ANTH 101. Not open to students with credit in ANTH 345. Not offered on a regular basis. Availability to be determined by the department. [Flexible Core: U.S. Experience in its Diversity]

ANTH247 (Liberal Arts) Ethnology and Ethnography of Oceania 3 hrs. 3 crs. Survey of traditional and contemporary societies of a given area; their exposure to a changing world and their responses. Preq: ANTH 101. Not open to students with credit in ANTH 347. Not offered on a regular basis. Availability to be determined by the department.

ANTH248 (Liberal Arts) Ethnology and Ethnography of Europe 3 hrs. 3 crs. Survey of traditional and contemporary societies of a given area; their exposure to a changing world and their responses. Preq: ANTH 101. Not open to students with credit in ANTH 341-348. Not offered on a regular basis. Availability to be determined by the department.

ANTH249 (Liberal Arts) Anthropology of Puerto Rico 3 hrs. 3 crs. 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 open to students with credit in ANTH 349. Not offered on a regular basis. Availability to be determined by the department.

ANTH250 (Liberal Arts) Ethnic America 3 hrs. 3 crs. The United States as well as almost all countries in the Americas is multi-cultural and multi-racial. 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. Coreq: ANTH 101 and ENG 125. Can be offered as a face-to-face course, a Hybrid course or as a fully online asynchronous course.

ANTH270 (Liberal Arts) Introduction to Ethnomusicology 3 hrs. 3 crs. An introduction to ethnomusicological theories and practices. Musics will be studied within their cultural and historical contexts. Regions of investigation may include (but are not limited to): Asia, Africa, the Middle East, the Caribbean, South America, and Oceania. Preq: ENG 125. Not open to students with credit in MUS 270. Cross-listed as MUS 270. This is a Writing Intensive course. [Flexible Core: Creative Expression]

ANTH285 (Liberal Arts) Environmental Justice in North America 3 hrs. 3 crs. This course introduces students to ways in which ecological degradation is linked to patterns of environmental racism; the values, goals, history, and scope of the environmental justice movement; and relevant theories and methods drawn from multidisciplinary foundations. The past, present, and prospects of environmental claims-making in North America will be explored. Preq: Sophomore standing or permission of the department. Not open to students with credit in BLST 285. This course is cross listed with BLST 285.

ANTH289 (Liberal Arts) Understanding Youth in the Urban Context 3 hrs. 3 crs. In this course, students will delve into original texts to examine critical perspectives on urban youth, youthhood, and constructions of youth identity(ies) both in the U.S. and cross-culturally. It begins with an understanding of young people: how they are seen, where they are seen, when they are seen. The spaces where 'youth' and 'youthhood' are constructed in relation to culture, social class, ethnicity, language, race, gender, sexual orientation are examined and the implications for policy and practice discussed. This course will be offered once a year if there is sufficient student enrollment. Contact the Teacher Education Department when declaring your intent to take this course. Preq: ENG 125. This course is cross-listed with YD 289 and SOC 288. Not open to students with credit in YD 289 or ANTH 289. [Flexible Core - Individual and Society]

ANTH301 (Liberal Arts) Alcoholism and Obesity Cross-Culturally 3 hrs. 3 crs. 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 crs. 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 Social or Behavioral Sciences. Not offered on a regular basis. Availability to be determined by the department. This course may be offered in a face-to-face or asynchronous online format. [Flexible Core: Individual and Society]

ANTH303 (Liberal Arts) Food and Culture 3 hrs. 3 crs. Food is not only something 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, cultural 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. Coreq: ANTH 101 and WRIT 301 or WRIT 302 or WRIT 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 crs. 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 crs. 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 crs. 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 Methods II 4 hrs. 3 crs. Advanced analysis of qualitative and quantitative data, with an emphasis on statistical analysis of numerical social data; data collection; describing and graphing data; measures of association; regression analysis; and preparing research reports. Preq: ANTH 220 or POL 222 or SOC 220 or SCWK 350. Cross-listed with SOC 321 and POL 321. This course may be offered in a face-to-face or hybrid format. Not open to students with credit in SOC 321 or POL 321 or SCWK 470. 2 hours lecture, 2 hours laboratory.

ANTH348 (Liberal Arts) Heritage, Culture, and Memory 3 hrs. 3 crs. An exploration of the political and cultural significance of Cultural Heritage Sites. Through case studies from around the world (with special emphasis on sites in Africa and its Diaspora), students will be led to interrogate the politics of historic preservation, and the complex set of motivations and decisions related to the identification, preservation, exhibition, and interpretation of heritage and culture. Preq: ANTH 101 or BLST 101. Coreq: ANTH 101 or BLST 101. Not open to students with credit in BLST 348. This course is cross listed with BLST 348.

ANTH349 (Liberal Arts) Race, Housing, and Community 3 hrs. 3 crs. This course will explore the historic and persistent struggles of lower and middle class African Americans to attain property and maintain stable communities in the face of discriminatory policies and practices of government, Realtors and majority communities. Additionally, case study evidence will lead students to understand the complex bundle of issues associated with gentrification and displacement, and means of resistance (i.e. community building initiatives) utilized by communities confronted with potential destabilization. Preq: ANTH 101 or BLST 101. Coreq: ANTH 101 or BLST 101. Not open to students with credit in BLST 349. This course is cross listed with BLST 349.

ANTH350 (Liberal Arts) Anthropology of Tourism 3 hrs. 3 crs. 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.

ANTH351 (Liberal Arts) Qualitative Research Methods and Analysis 4 hrs. 3 crs. This course is designed to provide an overview of qualitative research methods, including direct observation, participant observation, and open-ended interviews - individual and collective. Students will gain understanding of the process, tools, rewards and challenges of observing and describing a range of non-quantifiable social, political and cultural phenomena. Students will also gain a basic understanding of qualitative data analysis techniques

and approaches. Students will study and evaluate specific ethnographic studies and conduct their own ethnographic research project from the perspective of various social, political and behavioral science disciplines. Coreq: 9 Credits in ANTH, BLST OR SOC OR POL. This course may be offered in a face-to-face or hybrid format. Cross-listed with BLST 351 and SOC 351 and POL 351. Not open to students with credit in BLST 351 or SOC 351 or POL 351. 2 hours lecture, 2 hours laboratory.

ANTH361 (Liberal Arts) Primitive Social Organization 3 hrs. 3 crs. 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 crs. 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 crs. 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.

ANTH364 (Liberal Arts) Social Movements in the African Diaspora 3 hrs. 3 crs. 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: BLST 101 and WRIT 301, 302 or 303. Coreq: BLST 101 and WRIT 301, 302 or 303. This is a Writing Intensive course.

ANTH365 (Liberal Arts) Cultural Systems of Population Control 3 hrs. 3 crs. 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 crs. 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 open to students with credit in ANTH 311 or ANTH 381. Not offered on a regular basis. Availability to be determined by the department.

ANTH393 (Liberal Arts) Anthropology of Religion 3 hrs. 3 crs. 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.

ANTH401 (Liberal Arts) Seminar in Anthropology 3 hrs. 3 crs. 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 crs. 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 crs. 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 crs. The anthropology of education has a rich and varied history of investigating the linkages between culture and learning. Anthropologists studying education have sought to examine learning and academic achievement as ongoing social processes and as cultural products deeply embedded in broader historical, economic, political, social, and cultural frames. In this course, we will discuss selected works in the anthropology of education - both classic and contemporary - to understand the unique contributions anthropological perspectives make to the study of race, ethnicity, gender, class, and language in education. Special consideration is given to "bilingual" and "bicultural" (and "multicultural") education in the United States and elsewhere. Course readings will focus on formal schooling and informal education in the United States; an emphasis placed on studies of minority groups in public urban schools. Informed by the course readings, we will explore the following questions: What is a cultural analysis of schooling? What insights does ethnography - anthropology's signature method provide to key educational issues, like achievement gaps, bilingual education, and uneven access to higher education? Preq: ANTH 101 and WRIT 301 or 302 or 303. Coreq: ANTH 101 and WRIT 301 or WRIT 302 or WRIT 303. This course can be offered as a face-to-face course, a hybrid course, or as a fully online asynchronous course.

ANTH415 (Liberal Arts) Advanced Seminar in Anthropology 3 hrs. 3 crs. Advanced research under the supervision of the Anthropology faculty. Preq: ENG 126; ANTH 220 or SOC 220 or POL 222; ANTH 321 or SOC 321 or POL 321 or ANTH 351 or SOC 351 or BLST 351 or POL 351 and 6 additional credits in Anthropology. This course may be offered as an independent study. This is a Writing Intensive course.

ANTH442 (Liberal Arts) Culture and Personality 3 hrs. 3 crs. An examination of relationships between individual psychological functioning and socio-cultural processes, with examples drawn from primitive, peasant, and modern societies. 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. Not offered on a regular basis. Availability to be determined by the department.

ANTH451 (Liberal Arts) Ecological Anthropology 3 hrs. 3 crs. The interrelationships among biological, cultural, and environmental variables in particular ecosystems. Biological variables include plants and animals as well as man. Preq: ANTH 101. Not offered on a regular basis. Availability to be determined by the department.

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

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

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

ANTH495 (Not Liberal Arts) Summer Field Experience 0 hrs. 3 crs. Summer field training programs in anthropology conducted by approved institutions. Preq: 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 (Not Liberal Arts) Summer Field Experience 0 hrs. 3 crs. Summer field training programs in anthropology conducted by approved institutions. Preq: 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.

Arabic

ARAB101 (Liberal Arts) Elementary Arabic I 4 hrs. 3 crs. This course will introduce students to Modern Standard Arabic (MSA) and cultures of the Arabic-speaking world and emphasize the four essential language skills: listening, speaking, reading and writing. This course is designed for students who have no prior background in Arabic. No native or heritage student of Arabic will be allowed to remain in this course. 2 hours recitation; 2 hours laboratory.

ARAB102 (Liberal Arts) Elementary Arabic II 4 hrs. 3 crs. Students will continue to study Modern Standard Arabic through a communicative approach on topics from everyday life and contemporary issues. They will also develop basic conversational and grammatical skills and gain further understanding of cultural and social contexts of the Arabic speaking world. Focus will be on the four essential language skills: listening, speaking, reading and writing. Preq: ARAB 101 or placement by the department. 2 hours recitation; 2 hours laboratory.

Astronomy

ASTR101 (Liberal Arts) Introductory Astronomy: The Sun and Planets 3 hrs. 3 crs. 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 or ASTR 140. Laboratory, computer and observatory exercises will be used, including at least one night time lab. [Flexible Core: Scientific World]

ASTR102 (Liberal Arts) Introductory Astronomy: Stars, Galaxies and the Universe 3 hrs. 3 crs. 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. [Flexible Core: Scientific World]

ASTR140 (Liberal Arts) \$ Introductory Astronomy: Observations of the Sky 4 hrs. 3 crs. 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. [Required Core: Life and Physical Sciences]

ASTR141 (Liberal Arts) \$ Astronomy Laboratory 3 hrs. 3 crs. 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 of planets; the life cycles of stars; and measuring astronomical distances. Laboratory, computer and planetarium exercises will be used, and one nighttime lab may be scheduled. [Required Core: Life and Physical Sciences]

ASTR201 (Liberal Arts) The Solar System 5 hrs. 4 crs. 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. Coreq: 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 crs. 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. Coreq: 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 crs. 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. Coreq: MATH 121. Laboratory, computer and observatory exercises will be used, including at least one nighttime lab. 3 hours lecture, 2 hours laboratory.

ASTR204 (Liberal Arts) Methods of Scientific Research 4 hrs. 3 crs. Learning how to conduct research in a STEM field is the focus of this dynamic course. Key skills developed include scientific, analogical, and proportional reasoning; and general research skills such as data analysis and modeling. Field-specific skills are readily incorporated such as rudimentary programming and troubleshooting, literature searches, lab safety, particular experimental techniques or equipment training, and contextual content knowledge (most effectively presented by guest speakers, such as active researchers with whom students may ultimately work). Students will collect and analyze

many types of data, conducting, refining and designing open-ended experiments to test competing hypotheses. Preq: Department permission. 2 hours lecture, 2 hours laboratory.

ASTR301 (Liberal Arts) Observational Astronomy 5 hrs. 4 crs. 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 115 or PHYS 117; and a 100- or 200-level Astronomy course or department permission. 3 hours lecture, 2 hours laboratory.

ASTR491 (Liberal Arts) Astrophysics I: Planetary Astronomy 3 hrs. 3 crs. Basic physics of plasmas; orbital motions; the internal structure, atmospheres, magnetism and formation of the planets; dynamics of moons and rings; solar activity. Coreq: PHYS 351 or CHEM 322. Cross-listed with PHYS 491. Not open to students with credit in PHYS 491.

ASTR492 (Liberal Arts) Astrophysics II: Stellar Astronomy 3 hrs. 3 crs. 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. Coreq: PHYS 351 or CHEM 322. Cross-listed with PHYS 492. Not open to students with credit in PHYS 492.

ASTR493 (Liberal Arts) Astrophysics III: Extragalactic Astronomy 3 hrs. 3 crs. Galaxies and galaxy clusters; the extragalactic distance scale and Hubble's Law; quasars and active galactic nuclei; general relativity; distances and luminosities in cosmology. Origin and fate of the universe: the Big Bang, cosmic background radiation, inflation, dark matter, the cosmological constant. Coreq: PHYS 351 or CHEM 322. Cross-listed with PHYS 493. Not open to students with credit in PHYS 493.

ASTR495 (Liberal Arts) Independent Study 6 hrs. 3 crs. Independent Study under supervision of natural sciences faculty. Preq: Permission of department prior to registration. Not open to students with a combined total of 12 credits in Independent Study in the Natural Sciences Department. Minimum of 6 hours per week.

ASTR496 (Liberal Arts) Independent Study 6 hrs. 3 crs. Independent Study under supervision of natural sciences faculty. Preq: Permission of department prior to registration. Not open to students with a combined total of 12 credits in Independent Study in the Natural Sciences Department. Minimum of 6 hours per week.

Aviation

AVIA100 (Not Liberal Arts) Private Pilot Ground Course 4 (Lecture) hrs. 4 crs. This course covers subjects in theory of flight, environmental effects, basic aircraft and power plant system's weight and balance, operating data, basic navigation, basic meteorology, air traffic control principles, aviation safety and federal aviation regulations.

AVIA200 (Not Liberal Arts) Instrument Pilot Ground Course 4 (Lecture) hrs. 4 crs. This course covers the study of the operation of airplane flight instruments and navigation equipment, metrology,

and federal aviation regulations pertinent to instrument flight, air traffic, control procedures, flight physiology and instrument approach procedures. Preq: AVIA 100

AVIA230 (Not Liberal Arts) Introduction to the Aviation Business 3 hrs. 3 crs. 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.

AVIA237 (Not Liberal Arts) Introduction to Emergency Planning and Management 3 hrs. 3 crs. 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 areas of responsibility for action.

AVIA250 (Not Liberal Arts) Aeronautics 3 hrs. 3 crs. This course develops the aeronautical background necessary to understand the basics of flight and an understanding of the Federal Aviation Regulations and National Airspace System.

AVIA281 (Not Liberal Arts) Air Traffic Control 3 hrs. 3 crs. This course introduces the various aspects of the present and future Air Traffic Control systems. Coreq: AVIA 230.

AVIA300 (Not Liberal Arts) Dispatcher Written (ADX) Preparation Ground Course 4 (Lecture) hrs. 4 crs. This course is a comprehensive study of Federal regulations applicable to the field of aircraft dispatch. It also covers air traffic control procedures, airport planning, aircraft flight planning, weight and balance for transport category aircraft. Preq: AVIA 200

AVIA360 (Not Liberal Arts) Airport and Aviation Security 3 hrs. 3 crs. This course analyzes the threats facing the aviation industry. The role of government agencies and international agreements are addressed. Preq: AVIA 230. Coreq: AVIA 250.

AVIA362 (Not Liberal Arts) Commercial Aviation Safety 3 hrs. 3 crs. This course explores the skills and methodology needed to develop and implement an effective Safety Management System (SMS). Preq: AVIA 230. Coreq: AVIA 250.

AVIA400 (Not Liberal Arts) Aircraft Ground Preparation 4 (Lecture) hrs. 4 crs. This course is a comprehensive study of aviation weather, aircraft performance, aerodynamics, navigation and practical dispatching as applied to aircraft dispatch and dispatch resource management. Preq: AVIA 300

AVIA410 (Not Liberal Arts) Ethics Issues in Aviation 3 hrs. 3 crs. Ethics issues in Aviation focuses on current concerns since the passage of the Airline Deregulation Act. This is a writing intensive course. Preq: 1. ENG 126. 2. AVIA 230. 3. Junior Status Required.

AVIA414 (Not Liberal Arts) Airport Planning and Management 3 hrs. 3 crs. This course will discuss the major processes involved in airport planning and management from a regulatory and systems perspective. Preq: AVIA 230. Coreq: AVIA 360.

AVIA416 (Not Liberal Arts) Air Cargo Management 3 hrs. 3 crs. This course is an intensive review of the air cargo market and its place in the overall aviation industry. Preq: AVIA 230. Coreq: AVIA 362.

AVIA420 (Not Liberal Arts) Corporate and Business Aviation 3 hrs. 3 crs. This course is an intensive review of the corporate aviation market and its place in the greater aviation industry. Preq: AVIA 230. Coreq: AVIA 362.

AVIA425 (Not Liberal Arts) Airline Management 3 hrs. 3 crs. This course is a study in the skills needed to manage an airline. Teamwork and decision making are emphasized. Preq: AVIA 230. AVIA 362. Coreq: FINC 321.

AVIA495 (Not Liberal Arts) Aviation Seminar and Internship 3 hrs. 3 crs. This course is designed to help the student assess and develop personal, interpersonal, intellectual, and social skills needed to succeed in an aviation-related work-study program. This is a Writing Intensive course. Preq: 1. Departmental Permission Required. 2. ENG 126. Not open to students with credit in POL 392 or BUS 392.

AVIA510 (Not Liberal Arts) Organizational Behavior & Change in Aviation Business 3 hrs. 3 crs. Drawing on management theory and the latest research on organizational behavior, this course delineates a variety of organizational behavior and management topics with a focus on the aviation industry. This includes the practical application of the tools and topics discussed. Preq: Department Permission Required.

AVIA540 (Not Liberal Arts) Aviation Research Methods 3 hrs. 3 crs. This course provides an overview of research methodology and the requirements needed to conduct quality aviation research at the graduate level. Students are required to develop a comprehensive research project and present the results the project. Preq: Department Permission Required.

AVIA620 (Not Liberal Arts) Aviation Safety Management 3 hrs. 3 crs. This course examines various aspects of aviation flight and ground safety program management. Aviation safety program development, aviation human factors issues, aviation accident causation models, Safety Management Systems (SMS) and other areas relevant to aviation safety will be discussed. Case studies derived from actual National Transportation Safety Board Aviation Accident Reports will be examined. Preq: Department Permission Required.

AVIA 625 (Not Liberal Arts) Contemporary Aviation Security 3 hrs. 3 crs. Analysis of threats, security and asset protection within the aviation industry, emphasizing a political and public policy perspective including the impact of international terrorism, hijacking, sabotage, bombings, theft, smuggling, and terminal invasion. Airport, airline, and terminal security programs will be presented in accordance current federal policies and regulations. Preq: Department Permission Required.

AVIA630 (Not Liberal Arts) Airline/Airport Emergency Planning & Management 3 hrs. 3 crs. An application of 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 areas of responsibility for action. The role of the emergency planner in the overall planning function will be considered. Emphasis will be placed on strategies for mitigation of disaster from natural disasters, technological hazards, human errors, sabotage and terrorism. Preq: Department Permission Required.

AVIA635 (Not Liberal Arts) Global Logistics and Supply Chain Management 3 hrs. 3 crs. This class explores the logistics of managing a global airline supply chain and discusses what the strategies airlines can implement to cope with these challenges and improve their supply chain performance. Topics may include airline supply chain risk management, the total-cost-of-ownership approach to procurement, global supplier selection, network orchestration, transportation and distribution strategies around the world, and transportation security measures. Additionally, global airline warehousing and distribution as well as criteria for establishing efficient global distribution networks will be explored. Preq: Department Permission Required.

AVIA645 (Not Liberal Arts) Modern Airport Planning and Management 3 hrs. 3 crs. This course examines the relationship between airlines and airports; daily airport operations including ground operations, passenger flow management, baggage handling

and cargo operations; issues related to noise, environment; airport safety and security issues; and changes in technology, structure, and political environment, including enhanced security, environmental impact, and regulatory issues. This course also prepares students to evaluate and justify purchasing requests when interacting with financial gatekeepers. Preq: Department Permission Required.

AVIA650 (Not Liberal Arts) Innovative Airline Management 3 hrs. 3 crs. This is a computer simulation practicum designed to provide the opportunity to apply real world strategic processes under simulated conditions toward the solution of specific business problems. Preq: Department Permission Required.

AVIA660 (Not Liberal Arts) Aviation Marketing and Strategic Planning 3 hrs. 3 crs. A capstone course on marketing and strategic planning, this course will highlight the various strategies airline companies use to gain a competitive edge as well as develop a long term, sustainable strategy for success. Case studies of airlines will illustrate the relevant concepts. Preq: Department Permission Required.

Bengali

BENG106 (Liberal Arts) Bengali for Heritage Speakers 3 hrs. 3 crs. This course is designed to develop the reading and writing skills of heritage Bengali speakers who have some competency in the language but want to improve their competency. The course will be focused on improving, speaking, reading and writing skills using a variety of texts and films excerpts and selected literary texts. Preq: Permission of Department. Open to speakers of Bengali with some proficiency, with department's permission. Not for speakers educated in Bengali.

BENG200 (Liberal Arts) Modern Bengali Literature 3 hrs. 3 crs. This course is designed to acquaint students with contemporary Bengali literature through the close reading of selected literary texts from a variety of genres. This course is taught in Bengali. Preq: Permission of Department.

Biology

BIO110 (Liberal Arts) Environmental Biology 3 hrs. 3 crs. 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. This course may be offered as an online course. [Flexible Core: Scientific World]

BIO111 (Liberal Arts) First-Year Seminar in Biology 2 hrs. 2 crs. Introduction to the field of Biology with a focus on the knowledge and practical skills necessary to succeed in undergraduate science courses and pursue on-campus research, career opportunities in research and medicine, and the admission requirements for medical school, graduate school, and other professional programs. Coreq: BIO 201.

BIO120 (Liberal Arts) Principles of Inheritance and Human Reproduction 3 hrs. 3 crs. 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. [Flexible Core: Scientific World]

BIO130 (Liberal Arts) Biology of the Brain and Behavior 3 hrs. 3 crs. 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. [Flexible Core: Scientific World]

BIO140 (Liberal Arts) Human Biology 3 hrs. 3 crs. This course is an introduction to the human body covering structure and function of the human in health and disease. Topics include the skeletal, muscular, digestive, excretory, respiratory, circulatory, nervous, endocrine, and reproductive systems. Nutrition, genetics and blood disorders will also be covered. Laboratory experience will complement the lectures. Not credited toward fulfillment of Biology major requirements. Not open to students with credit in a 200 level Biology course. 1 hr lecture, 2 hrs laboratory. [Required Core: Life and Physical Sciences]

BIO150 (Liberal Arts) Conservation Biology 4 hrs. 3 crs. Conservation biology is an interdisciplinary science that focuses on the maintenance, loss, and restoration of biodiversity. Topics include the value of and principle threats to biodiversity, the dynamics of small populations including an examination of conservation genetics, and the principal approaches to the protection and recovery of endangered species. Labs will include discussions of related social issues and participation in Citizen Science projects. Not credited toward fulfillment of Biology major requirements. Not open to students with credit in a Biology 200-level course. 2 hours lecture, 2 hours laboratory. [Required Core: Life and Physical Sciences]

BIO201 (Liberal Arts) \$ Biological Principles I 6 hrs. 4 crs. 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 laboratory. [Required Core: Life and Physical Sciences]

BIO202 (Liberal Arts) \$ Biological Principles II 6 hrs. 4 crs. 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. Coreq: CHEM 108 and CHEM 109, or CHEM 101. 2 hours lecture, 1 hour recitation/preparatory, 3 hours laboratory. [Flexible Core: Scientific World]

BIO234 (Liberal Arts) \$ Anatomy and Physiology I 6 hrs. 4 crs. 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. Coreq: CHEM 106 and CHEM 107, or CHEM 108 and CHEM 109, or CHEM 101 or CHEM 105; BIO 234L. Two hours lecture, 1 hour recitation, 3 hours laboratory. [Flexible Core: Scientific World]

BIO235 (Liberal Arts) \$ Anatomy and Physiology II 6 hrs. 4 crs. Continuation of Biology 234. Topics include: circulatory system, respiratory system, digestive system, reproductive and excretory systems. Preq: BIO 234. Coreq: BIO 235L. 2 hours lecture, 1 hour recitation, 3 hours laboratory. [Flexible Core: Scientific World]

BIO265 (Liberal Arts) \$ Clinical Microbiology 4 hrs. 3 crs. Morphology, metabolism, growth, nutrition and genetics of microorganisms including bacteria, viruses, fungi, algae and protozoa, as a background for discussions of the role of microorganisms in disease. Topics include the disease process leading to infections of the respiratory, gastrointestinal and urogenital systems; blood, skin, wound, nosocomial and opportunistic infections. Natural and acquired immunity, physical and chemical methods of control; chemotherapy and antibiotic therapy in disease treatment. Laboratory exercises include the handling and cultivation of microorganisms, differential staining and the diagnostic bacteriology of clinically relevant Gram positive and Gram negative bacteria. Preq: CHEM 106 and CHEM 107, or CHEM 108 and CHEM 109, or CHEM 101 or CHEM 105. Not open to students with credit in BIO 465. 2 hours lecture, 2 hours laboratory.

BIO281 (Liberal Arts) \$ Human Structure and Function 5 hrs. 4 crs. 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 or BIO 140. Not credited toward fulfillment of Biology major requirements and Natural Science Area Requirements. Designed for students in Physical Education and Health Education. 3 hours lecture, 2 hours laboratory.

BIO283 (Liberal Arts) The Biology of Aging 3 hrs. 3 crs. 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. Not credited toward fulfillment of Biology majors and Natural Science Area Requirement.

BIO301 (Liberal Arts) \$ Molecular Biology and Biotechnology 6 hrs. 4 crs. 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. Coreq: CHEM 111 and CHEM 112, or CHEM 102. This is a Writing Intensive course. 2 hours lecture, 1 hour recitation, 3 hours laboratory.

BIO307 (Liberal Arts) Biostatistics 4 hrs. 3 crs. 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. Coreq: BIO 201. 2 hours lecture, 2 hours laboratory.

BIO308 (Liberal Arts) \$ Invertebrate Biology 6 hrs. 4.5 crs. 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 crs. 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.

BIO311 (Liberal Arts) Animal Behavior 3 hrs. 3 crs. Intended for Biology majors. The course will introduce students to basic approaches to the scientific study of animal behavior. The first half of the course will focus on mechanisms of behaviors and their ontogeny (proximate causes); while the second half will focus on the adaptive value and evolution of behaviors (ultimate causes). Throughout the course, students will encounter examples demonstrating methods for measurement and analysis of behavior, and will learn to analyze and interpret behavioral data. Preq: BIO 201.

BIO320 (Liberal Arts) \$ Cell Biology 6 hrs. 4.5 crs. 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. Not open to students with credit in BIO 445. 3 hours lecture, 3 hours laboratory.

BIO325 (Liberal Arts) \$ Histology 6 hrs. 4.5 crs. 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.

BIO331 (Liberal Arts) \$ Plant Biology 6 hrs. 4.5 crs. 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. Not open to students with credit in BIO 231.

BIO334 (Liberal Arts) \$ Comparative Physiology 6 hrs. 4.5 crs. 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 crs. 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, CHEM 106 and CHEM 107 or CHEM 108 and 109, or CHEM 101 or CHEM 105. Not credited toward fulfillment of Biology major requirements. This course is designed for students in the B.S. nursing program but is open to interested students who meet the requirements.

BIO382 (Liberal Arts) Nutrition 2 hrs. 2 crs. 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, CHEM 106 and CHEM 107, OR CHEM 108 and CHEM 109. Coreq: BIO 235. Not credited toward fulfillment of Biology major requirements.

BIO403 (Liberal Arts) \$ Ecology 6 hrs. 4.5 crs. An introduction to population, community, and ecosystem ecology, with an emphasis on the important interaction between evolutionary and ecological processes. Students will conduct independent research in the lab. Preq: BIO 202. 3 hours lecture, 3 hours laboratory.

BIO410 (Liberal Arts) Neurobiology 3 hrs. 3 crs. This course is a study of the structure and function of the nervous system, including neuroanatomy, neurophysiology and systems neurobiology. Topics include the structure and organization of the nervous system,

mechanisms of neural signal generation and transmission, sensory function, motor control, and higher brain functions. Preq: BIO 301. 3 hrs lecture.

BIO411 (Liberal Arts) \$ Laboratory in Neurobiology 3 hrs. 1.5 crs. This course is an experimental study of the structure and function of the nervous system. Topics investigated include: structure of the central nervous system, ionic mechanisms of the resting and action potentials, neuromuscular synapses and synaptic transmission, and features of sensory function. Preq: BIO 410. Coreq: BIO 410. 3 hrs laboratory.

BIO412 (Liberal Arts) Biochemistry 3 hrs. 3 crs. 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 235. Not open to students with credit in CHEM 412.

BIO415 (Liberal Arts) \$ Biochemistry and Molecular Biology 4 hrs. 2 crs. 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. Coreq: BIO 412 or CHEM 412. 4 hours laboratory.

BIO444 (Liberal Arts) \$ Genetics 6 hrs, 3 hrs. lecture, 3 hrs. lab. hrs. 4.5 crs. 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 301; CHEM 231 or CHEM 230.

BIO452 (Liberal Arts) \$ Developmental Biology 6 hrs. 4.5 crs. 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 or CHEM 230. 3 hours lecture, 3 hours laboratory.

BIO465 (Liberal Arts) \$ Microbiology 6 hrs. 4.5 crs. 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. Preq: BIO 301; CHEM 230 and 235 or CHEM 231 and 232. 3 hours lecture, 3 hours laboratory.

BIO466 (Liberal Arts) \$ Immunology 6 hrs. 4.5 crs. 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. Preq: BIO 301; CHEM 230 and 235 or CHEM 231 and 232. 3 hours lecture, 3 hours laboratory.

BIO477 (Liberal Arts) \$ Evolution 4 hrs. 3 crs. We will review the major principles of evolutionary biology through critical analysis of the theory and examination of its empirical support. The four main sections of the course will cover (1) origins of evolutionary theory, (2) processes of evolution, (3) generation and maintenance of biological diversity, and (4) macroevolutionary transitions. Preq: BIO 301. 2 hrs lecture, 2 hours recitation.

BIO480 (Liberal Arts) \$ Theory and Experimentation in Biotechnology 7 hrs. 5 crs. 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. Preq: BIO 301; BIO 412

or CHEM 412. Not open to students with credit for BTEC 480. This is a Writing Intensive course. 3 hours lecture, 3 hours lab, 1 hour recitation.

BIO485 (Liberal Arts) Special Topics in Biology 3 hrs. 3 crs. 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.

BIO486 (Liberal Arts) Special Topics in Biology 3 hrs. 3 crs. 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. Fieldtrips may be required. Preq: BIO 301. This is a Writing Intensive course.

BIO487 (Liberal Arts) Special Topics in Biology 3 hrs. 3 crs. 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. Preq: BIO 301. This is a Writing Intensive Course. The subject to be announced prior to registration. Field trips may be required.

BIO488 (Liberal Arts) Special Topics in Biology 3 hrs. 3 crs. 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. Fieldtrips may be required. Preq: BIO 301. This is a Writing Intensive course.

BIO489 (Liberal Arts) Special Topics in Biology 3 hrs. 3 crs. 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. Fieldtrips may be required. Preq: BIO 301. Not open to students with credit in BTEC 489. Course is cross listed with BTEC 489. This is a Writing Intensive course.

BIO490 (Liberal Arts) Independent Study 6 hrs. 3 crs. 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. Not open to students with a combined total of 12 credits in Independent Study in the Natural Sciences Department. PASS/FAIL after 6 credits of Independent Study in Natural Sciences have been completed. A student may register for only one independent study course in the Natural Sciences Department per semester, intersession or summer session.

BIO491 (Liberal Arts) Independent Study 6 hrs. 3 crs. 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. Not open to students with a combined total of 12 credits in Independent Study in the Natural Sciences Department. PASS/FAIL after 6 credits of Independent Study in Natural Sciences have been completed. A student may register for only one independent study course in the Natural Sciences Department per semester, intersession or summer session.

BIO492 (Liberal Arts) Independent Study 6 hrs. 3 crs. 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. Not open to students with a combined total of 12 credits in Independent Study in the Natural Sciences Department. PASS/FAIL after 6 credits of Independent Study

in Natural Sciences have been completed A student may register for only one independent study course in the Natural Sciences Department per semester, intersession or summer session.

BIO493 (Liberal Arts) Independent Study 6 hrs. 3 crs. 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. Not open to students with a combined total of 12 credits in Independent Study in the Natural Sciences Department. PASS/FAIL after 6 credits of Independent Study in Natural Sciences have been completed. A student may register for only one independent study course in the Natural Sciences Department per semester, intersession or summer session.

Black Studies

BLST101 (Liberal Arts) Introduction to Black Studies 3 hrs. 3 crs. The human condition and experience of Black people in the United States; emphasis on cultural and historical perspectives. Not open to student with credit in AAS 101. [Flexible Core: U.S. Experience in its Diversity]

BLST102 (Liberal Arts) The Unforgiving Mirror: Race and Racism in Contemporary Society 3 hrs. 3 crs. This is a course about race and racism in the Americas, with particular emphasis on the Black experience in the U.S. We will make use of several approaches including critical race theory, the experiences of everyday people, and the politics of popular culture - to understand the institutional and structural power of racism, as well as the ways in which ordinary people have articulated extraordinary resistance to the material, social, and psychological effects of racism. [Flexible Core: World Cultures and Global Issues]

BLST103 (Liberal Arts) Black Women in the Atlantic World 3 hrs. 3 crs. This course examines the foundations, ideas, concerns and implications of Black feminism within the context of the Black Atlantic. A major goal of this class is to foster dialogue and critical discussion about Black feminism as a site of theory and practice emphasizing social, political, and personal transformation. [Flexible Core: World Cultures and Global Issues]

BLST104 (Liberal Arts) Introduction to Africa 3 hrs. 3 crs. 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. Not open to students with credit in AAS 172.

BLST202 (Liberal Arts) The Black Experience in the Caribbean 3 hrs. 3 crs. 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. Not open to students with credit in AAS 341. [Flexible Core: World Cultures and Global Issues]

BLST213 (Liberal Arts) African American Religions and Religious Practice 3 hrs. 3 crs. The growth, role and tenets of a diversity 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: ENG 125 and one 100-level BLST course. Not open to students with credit in AAS 245.

BLST220 (Liberal Arts) Western African Literature in English 3 hrs. 3 crs. The literary expression of the former British colonies of West Africa. Representative authors include Chinua Achebe, Cyprian Ekwensi, Kofi Awoonor, Kwei Armah, Christopher Okigbo, J.P. Clark, and Wole Soyinka. Preq: BLST 104 and ENG 125. Not open to students with credit in AAS 220.

BLST222 (Liberal Arts) Caribbean Literature in Translation 3 hrs. 3 crs. 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 from the department. Not open to students with credit in AAS 322.

BLST237 The Contemporary Legacy of Slavery in the U.S. 3 hrs. 3 crs. The Contemporary Legacy of Slavery in the U.S. Preq: HIST 272.

BLST241 (Liberal Arts) The Urbanization of Contemporary Africa 3 hrs. 3 crs. 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: ENG 125 and BLST 104 or HIST 276. Not open to students with credit in AAS 230.

BLST242 (Liberal Arts) The Urbanization of Contemporary African America 3 hrs. 3 crs. 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: ENG 125 and one 100-level BLST course. Not open to students with credit in AAS 285.

BLST261 (Liberal Arts) Folklore: The African in America 3 hrs. 3 crs. 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 one 100-level BLST course. Not open to students with credit in AAS 261.

BLST262 (Liberal Arts) Black American Culture 3 hrs. 3 crs. The evolution of Black-American culture and its effects on American cultural, political, social and economic life. Preq: One 100-level BLST course. Not open to students with credit in AAS 360.

BLST285 (Liberal Arts) Environmental Justice in North America 3 hrs. 3 crs. This course introduces students to ways in which ecological degradation is linked to patterns of environmental racism; the values, goals, history, and scope of the environmental justice movement; and relevant theories and methods drawn from multidisciplinary foundations. The past, present, and prospects of environmental claims-making in North America will be explored. Preq: Sophomore standing or permission of the department. Not open to students with credit in ANTH 285. This course is cross-listed with ANTH 285.

BLST286 (Liberal Arts) Africa and the Columbian Exchange 3 hrs. 3 crs. This course introduces the contributions of Africa and Africans to the Columbian exchange - "the global transfers of people, culture, plants, animals, and microbes that were initiated with the discovery of America. It explores ways in which social and environmental transformations set in motion then are still unfolding, while today's appropriations and global transfers of commons by transnational corporations inspire new forms of conflict and resistance. Preq: ENG125 and one 100-level Black Studies Course, or permission of the department. Coreq: ENG 125 and one 100-level Black Studies Course, or permission of the department.

BLST323 (Liberal Arts) Mass Media, the Internet, and Black Communities 3 hrs. 3 crs. Critical examination of the role mass media, including the internet, plays in the African American community, focusing on ownership, access and image making. Preq: At least one course from BLST 202, HIST 272 and 276. Not open to students with credit in AAS 323.

BLST325 (Liberal Arts) Historiography in Black Studies 3 hrs. 3 crs. Through review of specific historiographical debates, this course examines major problems in studying and writing about the Black experience, the craft of writing history of the movement. Preq: At least one course from BLST 202, HIST 272 and 276. Not open to students with credit in AAS 325.

BLST331 (Liberal Arts) The Civil Rights Movement in America 3 hrs. 3 crs. An examination of major events, key personalities, and organizations in the history of the movement. Preq: ENG 125 and BLST 101, BLST 102, or HIST 272. Not open to students with credit in AAS 331.

BLST342 (Liberal Arts) Third-World Consciousness in Africa 3 hrs. 3 crs. 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: At least one course from BLST 202, HIST 272 and 276. Not open to students with credit in AAS 342.

BLST343 (Liberal Arts) The Contemporary Black Experience in South Africa 3 hrs. 3 crs. The indigenous South African society; the role of Blacks in the development of South Africa; the impact of apartheid on the life of the Blacks in South Africa today. Preq: At least one course from BLST 202, HIST 272 and 276. Not open to students with credit in AAS 343.

BLST345 (Liberal Arts) Black Revolutionary Thought 3 hrs. 3 crs. 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 at least one course from BLST 202, HIST 272 and 276. Not open to students with credit in AAS 265.

BLST348 (Liberal Arts) Heritage, Culture, and Memory 3 hrs. 3 crs. An exploration of the political and cultural significance of Cultural Heritage Sites. Through case studies from around the world (with special emphasis on sites in Africa and its Diaspora), students will be led to interrogate the politics of historic preservation, and the complex set of motivations and decisions related to the identification, preservation, exhibition, and interpretation of heritage and culture. Preq: ANTH 101 or BLST 101. Coreq: ANTH 101 or BLST 101. Not open to students with credit in ANTH 348. This course is cross-listed with ANTH 348.

BLST349 (Liberal Arts) Race, Housing, and Community 3 hrs. 3 crs. This course will explore the historic and persistent struggles of lower and middle class African Americans to attain property and maintain stable communities in the face of discriminatory policies and practices of government, Realtors and majority communities. Additionally, case study evidence will lead students to understand the complex bundle of issues associated with gentrification and displacement, and means of resistance (i.e. community building initiatives) utilized by communities confronted with potential destabilization. Preq: ANTH 101 or BLST 101. Coreq: ANTH 101 or BLST 101. Not open to students with credit in ANTH 349. This course is cross-listed with ANTH 349.

BLST351 (Liberal Arts) Qualitative Research Methods and Analysis 4 hrs. 3 crs. This course is designed to provide an overview of qualitative research methods, including direct observation, participant observation, and open-ended interviews - individual and collective. Students will gain understanding of the process, tools, rewards and challenges of observing and describing a range of non-quantifiable social, political and cultural phenomena. Students will also gain a basic understanding of qualitative data analysis techniques and approaches. Students will study and evaluate specific ethnographic studies and conduct their own ethnographic research project from the perspective of various social, political and behavioral

science disciplines. Coreq: 9 credits in ANTH, BLST, or SOC OR POL. This course may be offered in a face-to-face or hybrid format. Cross-listed with ANTH 351 and SOC 351 and POL 351. Not open to students with credit in ANTH 351 or SOC 351 or POL 351. 2 hours lecture, 2 hours laboratory.

BLST353 (Liberal Arts) Boys to Men: From Black Macho to Black Male Feminist 3 hrs. 3 crs. This course traces the experiences of Black men in an evolving but consistently hostile/indifferent environment. In this course, we will examine Black male views on life, Black love/relationships, Black male creativity and genius, Black male assessments of their position in society, and Black male responses to oppression. In addition, we will explore different theoretical critiques of racism in America and the impact of White Supremacy on Black men. Finally, we will examine the possibilities for a transformative Black masculinity. Preq: Sophomore standing. Coreq: Sophomore standing.

BLST354 (Liberal Arts) The Role of Blacks in the American Economy 3 hrs. 3 crs. 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: At least one course from BLST 202, HIST 272 and 276.

BLST364 (Liberal Arts) Social Movements in the African Diaspora 3 hrs. 3 crs. This course provides students a transnational 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: WRIT 301, and at least one course from BLST 202, HIST 272 and 276. Not open to students with credit in AAS 364. This is a Writing Intensive course.

BLST401 (Liberal Arts) Seminar 3 hrs. 3 crs. Selected topics, announced each semester, on contemporary Black Africa, the Caribbean, and Black America. Preq: Junior status and WRIT 301. Not open to students with credit in AAS 401.

BLST490 (Liberal Arts) Directed Study 3 hrs. 3 crs. Independent research in an area within African American Studies of mutual interest to students and a faculty member. A formal, publishable report based on original, guided research on topic is required. Typically one term paper of 30 pages. Preq: WRIT 301 and 6 credits in BLST. Not open to students with credit in AAS 490.

Biotechnology

BTEC302 (Not Liberal Arts) \$ Theory and Methods in Biotechnology and Biopharmaceuticals 6 hrs. 4 crs. An introduction to the history, development and regulation of the biotechnology industry with a focus on the application of biological methods to the development of human biopharmaceuticals and biotherapeutics, including the design, production and characterization of therapeutic proteins, nucleic acids, cells and biomaterials, stem cells, cancer therapeutics, gene therapy and vaccines. The laboratory will cover basic biological laboratory techniques, including preparation of laboratory reagents, measurement of weight, volume, temperature and pH, spectrophotometry, densitometry, fluorescence, protein and nucleic acid electrophoresis and chromatography, enzyme and

metabolic assays, as well as cell and tissue culture. The laboratory will culminate with the production, purification and characterization of a recombinant protein. Preq: BIO 301; CHEM 231. 2 hr. lecture, 1 hr. recitation, 3 hr. lab.

BTEC350 (Not Liberal Arts) \$ Computational Biology and Molecular Design 4 hrs. 3 crs. 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: BIO 301; CHEM 233; MATH 121. 2 hours lecture, 2 hours laboratory. Lecture presentations will be augmented with computer-based laboratory instruction.

BTEC352 (Not Liberal Arts) \$ Bioinformatics 4 hrs. 3 crs. 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: BIO 301, CHEM 233, MATH 121. Students need access to a computer and the internet to complete the course assignments. 2 hours lecture, 2 hours laboratory.

BTEC480 (Not Liberal Arts) \$ Theory and Experimentation in Biotechnology 7 hrs. 5 crs. 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. Preq: BIO 301; BIO 412 or CHEM 412. Not open to students with credit for BIO 480. This is a Writing Intensive course. 3 hours lecture, 3 hours lab, 1 hour recitation.

BTEC489 (Not Liberal Arts) \$ Special Topics in Biotechnology 3 hrs. 3 crs. 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 topic of biotechnology. The subject of the seminar will be announced prior to registration. Field trips may be required. Preq: BIO 301. Not open to students with credit in BIO 489. Course is cross-listed with BIO 489. This is a Writing Intensive course.

Business

BUS160 (Not Liberal Arts) Introduction to Business 3 hrs. 3 crs. This course introduces students to the business discipline. This a survey course and will cover topics from Marketing, Entrepreneurship, International Business, Economics, and Information Systems Management.

BUS200 (Not Liberal Arts) Introduction to Programming for Business Analytics 3 hrs. 3 crs. The course will provide students with the basics of programming for business applications. It will equip students with a working knowledge of business analytics tools such as Python, R, etc. for descriptive data analytics. These skills are foundational and are beneficial for every manager in today's data-rich economy. It will help students to showcase their analytics skills to future employers.

BUS201 (Not Liberal Arts) Computer Applications in Business 4 hrs. 3 crs. Design and implementation of computerized information systems. Applications include computerized spreadsheets, word

processing, graphics, and data base management. Not open to students with credit in AC 201. This course may be offered in a face-to-face or hybrid format.

BUS202 (Not Liberal Arts) Introduction to Management Information Systems 3 hrs. 3 crs. Introduction to information systems for business and other non-computer science majors. Basic concepts about the components and the operations of information systems such as computer hardware, software, database management and telecommunications technologies are covered. Also included are: Electronic Commerce, Emerging Technologies, the development of IT systems, the management of IT systems, Decision Support Systems, Expert Systems and Artificial Intelligence. Not open to students with credit in BUS 402.

BUS210 (Not Liberal Arts) Introduction to Unmanned Aerial Systems 3 hrs. 3 crs. Unmanned Aerial Systems (UAS) are revolutionizing not only the aviation industry, but society itself. They are truly a paradigm shift for everyone involved. This course is designed to introduce the student to the different types of Unmanned Aerial Vehicles (UAV) and their roles in society. It will also explore the challenges of integrating UAV into the National Airspace System (NAS).

BUS220 (Not Liberal Arts) Fundamentals of Cybersecurity 3 hrs. 3 crs. Cybersecurity is the state of being protected against the criminal or unauthorized use of electronic data, and the measures taken to achieve this goal. This course enables students to analyze realistic case scenarios and identify the depth and breadth of the cybersecurity challenge from multiple perspectives.

BUS235 (Not Liberal Arts) Airport Planning and Management 3 hrs. 3 crs. A comprehensive analysis of the planning process and managerial and operations functions pertaining to management of an airport. The course will cover airports in general; airport system planning; site selection, layout and land use; access airport capacity and delay; financial planning and management; airport operations. Preq: ECON 102.

BUS240 (Not Liberal Arts) Foundations of Supply Chain Management 3 hrs. 3 crs. This course covers the major issues in supply chain management, including: definition of a supply chain; role of inventory; advanced production-inventory models; supply contracts; bullwhip effect and information sharing; vendor-managed inventories and other distribution strategies; third-party logistics providers; managing product variety; information technology and supply chain management; international issues and outsourcing. This course may be offered in a face-to-face, hybrid or asynchronous online format. Preq: Successful fulfillment of the Required Core: Mathematical and Quantitative Reasoning requirement.

BUS275 (Not Liberal Arts) Data Mining Analytics 3 hrs. 3 crs. This course provides a comprehensive look at data management and analysis for Business. The course will use real problem-solving techniques to enhance data management and forecasting. The students will learn hands-on approaches and work on real world exercises to provide them with a clear framework of providing solutions to businesses and large data management problems. Preq: 9 credits in Business coursework.

BUS283 (Not Liberal Arts) Business Law and Ethics 3 hrs. 3 crs. Origin and development of Business Law, its theory and application; Law of contracts, bailments, sales; particular emphasis on New York State Law. This course will also examine business ethics as well as the societal legal and ethical environment. Preq: ECON 102. (Formerly ECON 283).

BUS284 (Not Liberal Arts) Business Law II 3 hrs. 3 crs. Law of business organizations; agencies and partnerships, corporations, negotiable instruments. Preq: BUS 283 or ECON 283 (Formerly ECON 284).

BUS285 (Not Liberal Arts) Business Law and Digital Forensics 3 hrs. 3 crs. Business managers need knowledge to maneuver through the ever-evolving legal world of digital economy which require a legal basis for their decisions in the workplace. This course is presented from an entrepreneurial style, incorporating the legal, managerial, and ethical issues affecting the digital domain. Excerpted cases thoroughly explain the law in every chapter, while enlightening students with the real-world legal implications. There will be an emphasis on the new devices, applications, laws and regulations surrounding on-line use.

BUS286 (Not Liberal Arts) Digital Technologies in Organizations 3 hrs. 3 crs. This course focuses on how technological applications may provide more effective and efficient pathways for organizations to communicate with their stakeholders and reach their strategic goals including the use of social media.

BUS287 (Not Liberal Arts) Communities, Social Network and Information 3 hrs. 3 crs. This course will lay the foundation for theoretical analyses of how people socially create and negotiate information in the digital age. This course will examine the capabilities and uses of the Internet, computers and cellular communications, and how they are changing business, law, politics, health, education, entertainment, and society. Students will learn of the new forms of connectivity, made possible by information and communication networks, are contributing to the development of a different kind of society. Preq: BUS 286.

BUS290 (Not Liberal Arts) Records Management and Preservation 3 hrs. 3 crs. This course will examine the strategies used in the preservation and retrieval of documents. It will also examine the nature of library and archival materials and the variety of processes which cause their deterioration. Conservation treatments for combating deterioration are analyzed from the point of view of the librarian or archivist. It also looks at the impact of technology on recordkeeping. Preq: BUS 286.

BUS301 (Not Liberal Arts) Management Theory and Practice 3 hrs. 3 crs. 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: 1. BUS 201. 2. ECON 102 or ECON 103. 3. Junior status. This course may be offered as an online course.

BUS302 (Not Liberal Arts) Introduction to International Business 3 hrs. 3 crs. 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 system. Preq: ECON 103. This course may be offered as an online course.

BUS303 (Not Liberal Arts) Office Information Systems 3 hrs. 3 crs. 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 (Not Liberal Arts) Human Resource Management 3 hrs. 3 crs. 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. This course may be offered as an online course.

BUS312 (Not Liberal Arts) Staff Supervision and Employee Relations 3 hrs. 3 crs. 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 (Not Liberal Arts) Health Care Management 3 hrs. 3 crs. 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.

BUS326 (Not Liberal Arts) Computer Applications in Mortgage Finance 3 hrs. 3 crs. Covers the latest technology currently being used in the mortgage industry. This course will provide students with the capabilities and knowledge needed to incorporate technology into all aspects of the mortgage loan cycle. Not open to students with credit in BUS 201. 3 hours lecture. Preq: FINC 325.

BUS328 (Not Liberal Arts) Fair Housing and Fair Lending Laws 3 hrs. 3 crs. 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: FINC 325. 3 hours lecture.

BUS330 (Not Liberal Arts) Aviation Operations 3 hrs. 3 crs. 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 (Not Liberal Arts) Case Studies in Aviation Financial Management 3 hrs. 3 crs. 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: 1. BUS 230. 2. FINC 321.

BUS 337 (Not Liberal Arts) Managing Change and Innovation 3 hrs. 3 crs. The management of innovation is one of the most important and challenging aspects of modern organization. The course will equip students with an understanding of the main issues in the management of innovation and an appreciation of the relevant skills needed to manage innovation at both strategic and operational levels. It provides evidence of different approaches based on real-world examples and experiences of leading organizations from around the world. Preq: BUS 301.

BUS340 (Not Liberal Arts) Enterprise Risk Management and Insurance 3 hrs. 3 crs. This course provides students with a broad framework for evaluating all types of risk, along with conceptual tools for making risk management decisions rationally and consistently. It focuses on an in-depth analysis of the processing, investing, and evaluation of risk management. Insurance is the primary mechanism by which risk is managed within society. The course focuses on the economics and science of risk and risk assessment and decision-making under uncertainty, and the methods for managing risk. It covers the basic concepts in risk management and insurance, legal

principles in risk and insurance, personal property and liability risks, commercial property and liability risks, and life and health risks. Preq: ECON 220.

BUS348 (Not Liberal Arts) Production/Operations Management 3 hrs. 3 crs. Planning, control, and evaluation of production and operations functions in any type of firm; management decision making, scheduling, inventory control, and productivity analysis. Preq: 1. BUS 201. 2. ACC 102 or ACC 103. 3. ECON 220 4. ECON 103. 5. Junior or Senior status.

BUS349 (Not Liberal Arts) Entrepreneurship Basics 3 hrs. 3 crs. 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. Preq: ACC 101, BUS 301, MKT 341. Coreq: BUS 301, MKT 341. This course may be offered as an online course.

BUS353 (Not Liberal Arts) Human Computer Interaction 3 hrs. 3 crs. This course introduces the principles and concepts of Human-Computer Interaction (HCI) to enable the design of systems that effectively meet human needs. It covers aspects of interaction design and human factors and offers theoretical grounding and practical skills for analyzing, designing and evaluating the usability of interactive software systems. Preq: BUS 286 and CS 172.

BUS357 (Not Liberal Arts) Family Business 3 hrs. 3 crs. 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. This course may be offered in a face-to-face, hybrid or asynchronous online format. Preq: BUS 301, MKT 341, ACC 101 or department permission.

BUS361 (Not Liberal Arts) Management of Compensation 3 hrs. 3 crs. 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. This course may be offered in a face-to-face or hybrid format. Preq: BUS 311.

BUS365 (Not Liberal Arts) Materials and Inventory/Production Control 3 hrs. 3 crs. This course covers the major issues in materials and inventory/production management, including: identifying different types of inventory, study different inventory policies and evaluating their expected cost. On the production side this course studies different methods of forecasting and job shop and flow shop scheduling. Different production philosophies (pull and push) are compared in detail. Finally, basics revenue management for limited capacity products is introduced with an emphasis on airline ticket pricing. Preq: ECON 220.

BUS366 (Not Liberal Arts) Transportation Management 3 hrs. 3 crs. This course focuses on skills development in and knowledge of transportation management in the following areas: Issues: Issues are essential points associated with the subject that need to be discussed, understood and analyzed, and resolved; Players (i.e., companies, firms, associations, regulatory authorities) and their roles.; Essential transportation management processes.; Shipment and information flows; Infrastructure and equipment. It enables students to develop skills in and knowledge of transportation management in the following areas: essential transportation management processes, shipment and information flows, and infrastructure and equipment. Preq: BUS 240.

BUS367 (Not Liberal Arts) Logistics Management 3 hrs. 3 crs. This course is designed to give students the knowledge and experience of strategic logistics management. Attention is given to

such issues as transportation management, warehouse and facility location management, inventory management, and supply-chain strategies. The course encompasses both the qualitative aspect and the quantitative aspect of logistics management. Preq: BUS 240.

BUS368 (Not Liberal Arts) E-Business Technology 3 hrs. 3 crs. Effective corporate E-Business strategies demand an in-depth understanding of the various technology solutions that enable electronic business. The course will examine how emerging trends--in social media, telecommunications, search engines, security, portals, websites and user interface design, electronic payment systems, e-publishing, digital search features, mobile commerce, and pervasive computing--impact industry, corporate strategy, and competitive dynamics, and create organizational efficiencies. Specific topics covered include: Web 2.0/Social Media, Service Oriented Architecture, Cloud Computing, and Open Source Software. Preq: BUS 240.

BUS369 (Not Liberal Arts) International Supply Chain Management 3 hrs. 3 crs. This course entails a comprehensive study of the concepts, processes, and strategies used in the development and management of global supply chains. Supply-chain management (SCM) is a systems approach to managing the entire flow of information, materials, and services from raw material suppliers through factories and warehouses to the final end-customer. Specific topics include global supply chain management, procurement, electronic commerce, information technologies, and logistics activities. SCM represents a philosophy of doing business that stresses processes and integration. This course will be taught through the use of textbook materials, outside readings, and case analysis. Preq: BUS 240, BUS 366, BUS 367.

BUS370 (Not Liberal Arts) Labor Relations & Collective Bargaining 3 hrs. 3 crs. This course is designed to provide students with an overview of the institutionalized setting of labor relations as it exists today within the framework of the U.S. economy. This course will cover topics such as union/management relationships, evolution of labor/management relationships, legal influences, key participants in labor relations process, 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, labor relations in multinational corporations and in other countries. This course may be offered in a face-to-face or hybrid format. Preq: BUS 301.

BUS371 (Not Liberal Arts) Supply Chain Modeling 3 hrs. 3 crs. This course is designed to familiarize the student with (1) models of the strategic economic and service tradeoffs involved in supply chain and logistics management, (2) the data and parametric requirements of contemporary strategic supply chain models, and (3) the application of leading software packages to real world modeling problems and issues that arise in the strategic management of logistics networks and supply chains. Issues such as location of facilities, assignment of production and distribution missions to facilities, identification of sourcing relationships amongst facilities, and identification of cost and customer service consequences of alternative supply chain designs are addressed through the application of commercial decision support software packages. This "hands on" course is designed to prepare students for high-level supply chain and analyses and consulting work. Preq: BUS 240 and BUS 369.

BUS372 (Not Liberal Arts) Strategic Cost Management 3 hrs. 3 crs. This course extends the perspective of cost management/analysis from a primary focus on tactical short-run/micro concerns to an emphasis on strategic long-run/macro issues. The linkage between cost management/analysis and strategy is facilitated by utilizing three powerful strategic management tools: value chain analysis, strategic positioning analysis, and cost driver analysis. Strategic cost

management (SCM) exists to support decision-makers as they develop, communicate, implement, evaluate and modify organizational strategy. Preq: BUS 240 and BUS 365.

BUS373 (Not Liberal Arts) Procurement Management 3 hrs. 3 crs. This course provides general and specific purchasing information that will serve to strengthen the student's ability to participate in today's global purchasing environment. Topics include procurement requests, solicitation and evaluation of proposals, supplier analysis, contract execution, implementation and administration, personnel issues, materials flow, inventory management, value analysis, value engineering, logistics management, material requirements planning, forecasting strategies, strategic planning, external and internal relationships, computerization of purchasing and materials, and legal and environmental issues affecting purchasing. Preq: BUS 240 and BUS 369.

BUS374 (Not Liberal Arts) International Logistics and Transportation 3 hrs. 3 crs. Logistics and transportation activities of multinational firms with emphasis on international logistics, transportation, customer service, inventory control, facility location, global sourcing, customs documentation, and the role of government in importing and exporting. Attention given to current events and their effect on the marketing and logistics activities of U.S.-based organizations. Preq: BUS 240 and BUS 369.

BUS375 (Not Liberal Arts) Human Resource Training and Development 3 hrs. 3 crs. The process of developing an organization's human resources in order to meet current and future business needs. The role of training in employee and management development for skill acquisition and career advancement is emphasized with regard to needs assessment, program design, training methods and evaluation. Preq: BUS 301.

BUS376 (Not Liberal Arts) Organizational Knowledge Management 3 hrs. 3 crs. The purpose of this course is to prepare students to become familiar with the current theories, practices, tools and techniques in knowledge management (KM), and to assist students in pursuing a career in the information sector for profit and not for profit organizations. In addition, students will learn to determine the infrastructure requirements to manage the intellectual capital in organizations. Preq: BUS 286.

BUS377 (Not Liberal Arts) Business Intelligence 3 hrs. 3 crs. This course addresses the need to propel information gathering and data organization, as well as to exploit potential information and knowledge hidden in routinely collected data to improve decision making skills. It builds on the strengths of two fundamental themes, within the course, namely data mining and decision sciences. Preq: BUS 286.

BUS392 (Not Liberal Arts) Aviation Internship in the Private Sector TBA hrs. 3 crs. Supervised field experience in a corporate or other private sector setting in the aviation sector under the guidance of a faculty advisor in Business. Preq: BUS 230, BUS 330 and permission of Department required. Not open to students with credit in POL 392. Hours to be arranged.

BUS402 (Not Liberal Arts) Management Information Systems 3 hrs. 3 crs. 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. Preq: 1. CS 292 2. ECON 220.

BUS426 (Not Liberal Arts) Lending Programs for Affordable Housing 3 hrs. 3 crs. 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. Preq: 1. BUS 328 2. FINC 325. 3 hours lecture.

BUS430 (Not Liberal Arts) Ethics, Governance & Accountability 3 hrs. 3 crs. 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 business in the society, the changing domestic and international environment within which business must be managed, the power, legitimacy, and governance of business organizations values, and ideology, social issues, corporate social policies, governmental regulation of business and societal discrimination and employee health and safety. This course may be offered in a face-to-face or asynchronous online format. Preq: BUS 301, FINC 321, BUS 348, MKT 341 and Junior status required.

BUS431 (Not Liberal Arts) Entrepreneurship Plans 3 hrs. 3 crs. The purpose of this course is to bring a logical and systematic approach to the identification of emerging opportunities and the development of concepts for new ventures, and to explore a number of critical challenges surrounding the entrepreneur's ability to recognize and act on such ideas. Thus, the course seeks to help the students develop and appreciate their own entrepreneurial potential, and their abilities to recognize entrepreneurial possibilities. It will be a very hands-on course and students will produce a series of creative concepts and ideas, and will be actively involved in helping to critique and enhance the ideas of others. Issues in new concept implementation will be stressed. We will also explore a number of cases that illustrate real world problem and challenges in coming up with and implementing new concepts. This course may be offered in a face-to-face, hybrid or asynchronous online format. Preq: 1. BUS 349 2. BUS 357.

BUS435 (Not Liberal Arts) Management of International Corporations 3 hrs. 3 crs. This course will examine the managerial challenges faced by large and medium sized corporations in conducting business in global environments. Course focus will be on managing organizational complexities such as international strategic alliances, mergers and acquisitions, international human resource management. Preq: Junior Status and ECON 340.

BUS445 (Not Liberal Arts) International Competitiveness 3 hrs. 3 crs. This course examines competitiveness of businesses from a management, labor, and government perspective. Emphasis will be placed on the United States companies and their performance. Global cases will be examined. Preq: Junior Status and ECON 340.

BUS460 (Not Liberal Arts) Information Retrieval 4 hrs. 4 crs. Students will learn how to retrieve information across various forms (text, image, video, etc.), as it has become increasingly important that the techniques deployed in IR are able to perform search and retrieval operations across these distinct formats. Preq: CS 172 and BUS 286.

BUS 461 (Not Liberal Arts) Information Systems Project Management 3 hrs. 3 crs. The aim of this course is to provide students with an understanding of the principles, processes, and practices associated with the management of software-intensive projects. The course is ideal for anyone who needs to gain a working knowledge of the application domain, project management, and software engineering. This is a Writing Intensive course. Preq: 1. BUS 286 2. CS 172 3. WRIT 301 or WRIT 302 or WRIT 303 or WRIT 304 or completion of at least 3 Writing Intensive credits at the 100- or 200-level.

BUS465 (Not Liberal Arts) Enterprise Resource Planning 4 hrs. 4 crs. The goal of this course is to focus on issues such as the potential role of ERP in transforming organizations; integration of business functions including planning, manufacturing, sales, finance

and marketing; internal role in integrating the enterprise through a cohesive set of business processes and functional applications to meet business needs and managing of external relations with suppliers, outsourcers, and customers. Preq: BUS 286 and CS 172.

BUS 470 (Not Liberal Arts) Information System Security Management 4 hrs. 4 crs. Students will learn the strategies associated with cyber security and information risk. The students will develop an understanding of technical and the business issues surrounding IT security and business risk. The students will also have fundamental knowledge of information and computer systems and a general awareness of security issues. Preq: BUS 286.

BUS476 (Not Liberal Arts) Systems Analysis and Design 4 hrs. 4 crs. This course aims to introduce variety of new software used by analysts and designers to manage projects, analyze and document systems, design new systems and implement their plans. It introduces SSAMD, SSM and ERP; web based systems for e-commerce as well as RAD and GUI design. This course also considers various threats encountered by computer systems and various categories of information systems used in organizations. Preq: BUS 286.

BUS481 (Not Liberal Arts) Strategic Management 3 hrs. 3 crs. 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. This is a Writing Intensive course. This course may be offered in a face-to-face or asynchronous online format. Preq: Senior status.

BUS490 (Not Liberal Arts) Independent Study in Marketing 3 hrs. 3 crs. In-depth investigation of marketing problem of the students choice with faculty approval and guidance. Preq: Departmental permission required.

BUS491 (Not Liberal Arts) Independent Study in Management 3 hrs. 3 crs. In-depth investigation of management problem of the students choice with faculty approval and guidance. Preq: Junior status and permission of instructor.

Chemistry

CHEM100 (Not Liberal Arts) Chemical Calculations 1 hrs. 1 crs. Laboratory on applications of arithmetic, algebra and geometry to chemistry problems. Not open to students with a grade of C- or above for CHEM 108. Pass/No Credit.

CHEM106 (Liberal Arts) Essentials of College Chemistry 4 hrs. 3.5 crs. Topics include: The essential principles and concepts of college chemistry, stoichiometry, gases, liquids, solids, solutions, the equilibrium state, ionic equilibria in solution, redox reactions, atomic and molecular structure and organic and biochemistry. Not open to students with credit for CHEM 105. Preq: MATH 104 or MATH 120 or placement by Math department in MATH 121. Coreq: CHEM 107. 3 hrs lecture, 1 hr recitation. [Required Core: Life and Physical Sciences]

CHEM107 (Liberal Arts) \$ Essentials of College Chemistry Laboratory 3 hrs. 1.5 crs. Laboratory course designed to accompany Chemistry 106. Topics include laboratory safety, measurements of mass and volume, and experiments designed to demonstrate concepts from Chemistry 106. Not open to students with credit for CHEM 105. Coreq: CHEM 106. The course has a \$25 course materials fee. [Required Core: Life and Physical Sciences]

CHEM108 (Liberal Arts) Principles of Chemistry I 4 hrs. 3.5 crs. Introduction to chemical principles and concepts. Topics include: stoichiometry, aqueous reactions, thermochemistry, atomic structure and periodicity, bonding, molecular geometry, gases. Preq: MATH 104

or MATH 120 or placement by Math department in MATH 121. Coreq: CHEM 109. Not open to students with credit for CHEM 101. 3 hrs lecture, 1 hr recitation. [Flexible Core: Scientific World]

CHEM109 (Liberal Arts) \$ Principles of Chemistry I Laboratory 3 hrs. 1.5 crs. Laboratory course designed to accompany Chemistry 108. Topics include laboratory safety, measurements of mass and volume, and experiments designed to demonstrate concepts from Chemistry 108. Coreq: CHEM 108. Not open to students with credit for CHEM 101. The course has a \$25 course materials fee. [Flexible Core: Scientific World]

CHEM111 (Liberal Arts) Principles of Chemistry II 4 hrs. 3.5 crs. A continuation of Chemistry 108. Topics include: thermodynamics, kinetics, equilibrium, buffers, titrations, redox reactions, electrochemistry. Preq: CHEM 108 and CHEM 109; or CHEM 101. Coreq: CHEM 112. Not open to students with credit for CHEM 102.

CHEM112 (Liberal Arts) \$ Principles of Chemistry II Laboratory 3 hrs. 1.5 crs. Laboratory course designed to accompany Chemistry 111. Topics include laboratory safety, measurements of mass and volume, and experiments designed to demonstrate concepts from Chemistry 111. Preq: CHEM 108 and CHEM 109; or CHEM 101. Coreq: CHEM 111. Not open to students with credit for CHEM 102. The course has a \$25 course materials fee.

CHEM120 (Liberal Arts) Environmental Chemistry 3 hrs. 3 crs. 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 crs. 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 crs. 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 111 or CHEM 106. Not credited toward fulfillment of Chemistry major requirements. Not open to students with credit in CHEM 231.

CHEM231 (Liberal Arts) Organic Chemistry I 3 hrs. 3 crs. Introduction to modern concepts of organic chemistry; bonding, reaction theory, spectroscopy, stereochemistry and nomenclature, relationships between structure and reactivity. Preq: CHEM 111.

CHEM232 (Liberal Arts) \$ Techniques of Organic Chemistry I 4 hrs. 2 crs. 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 112. Coreq: CHEM 231.

CHEM233 (Liberal Arts) Organic Chemistry II 3 hrs. 3 crs. 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 crs. Continuation of Chemistry 232; organic qualitative analysis, rational synthesis, and independent investigation. Preq: CHEM 232. Coreq: CHEM 233.

CHEM235 (Liberal Arts) \$ Laboratory in Organic Chemistry 4 hrs. 2 crs. Synthesis and purification procedures of organic chemicals including drugs, vitamins, dyes, etc. are stressed. Experiments will include product identification. Coreq: CHEM 230. Not credited toward fulfillment of Chemistry major requirements. Not open to students with credit in CHEM 232. 4 hours laboratory.

CHEM237 (Liberal Arts) Toxicology 3 hrs. 3 crs. 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 crs. Modern chemical analysis: titrations, applied spectroscopy, electroanalytical methods, analytical separations. Use of spreadsheets in data analysis. Preq: CHEM 232 or CHEM 235.

CHEM290 (Liberal Arts) Independent Study 2 hrs. 1 crs. Individually guided introduction to research. Preq: Permission of the department prior to registration. Not open to students with a combined total of 12 credits in Independent Study. A student may register for only one course in Independent Study per semester or summer session. PASS/FAIL only.

CHEM291 (Liberal Arts) Independent Study 2 hrs. 1 crs. Individually guided introduction to research. Preq: Permission of the department prior to registration. Not open to students with a combined total of 12 credits in Independent Study. A student may register for only one course in Independent Study per semester or summer session. PASS/FAIL only.

CHEM292 (Liberal Arts) Independent Study 2 hrs. 1 crs. Individually guided introduction to research. Preq: Permission of the department prior to registration. Not open to students with a combined total of 12 credits in Independent Study. A student may register for only one course in Independent Study per semester or summer session. PASS/FAIL only.

CHEM310 (Liberal Arts) Inorganic Chemistry 3 hrs. 3 crs. 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 111. Coreq: CHEM 321 or CHEM 322.

CHEM321 (Liberal Arts) Physical Chemistry: Thermodynamics 3 hrs. 3 crs. Classical and molecular investigation of thermodynamics: laws of thermodynamics, thermochemistry, entropy, free energy, chemical equilibria, molecular energies, Boltzmann distribution, and electrochemistry. Preq: CHEM 102 or CHEM 111 and 112, MATH 122, PHYS 117 and 113.

CHEM322 (Liberal Arts) Physical Chemistry: Quantum Chemistry 3 hrs. 3 crs. Introduction to quantum mechanics, chemical bonding, spectroscopy, chemical kinetics, and statistical mechanics. Preq: CHEM 102 or CHEM 111 and 112, MATH 122, PHYS 118 and 114.

CHEM323 (Liberal Arts) Physical Chemistry: Drug Processes 3 hrs. 3 crs. Chemical kinetics and stability; buffers in pharmaceutical and biological systems; principles of rheology and viscosity; diffusion and sedimentation; drug release; interfacial phenomena. Preq: CHEM 321, MATH 122, PHYS 118 and 114. 3 hour lecture.

CHEM330 (Liberal Arts) Structure and Mechanism in Biochemistry 3 hrs. 3 crs. 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. Biocatalyst 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 crs. Deficient heteroatomics; excessive heteroatomics; 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 crs. 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 crs. Instrumental techniques with an emphasis on spectroscopy: UV-visible, IR and atomic absorption, NMR, fluorescence. Use of spreadsheets in data analysis. Preq: CHEM 233, CHEM 234, CHEM 341.

CHEM360 (Liberal Arts) Medicinal Chemistry 3 hrs. 3 crs. An introduction to modern concepts of medicinal chemistry ranging from the identification of drug targets to the development and mechanism of action of therapeutic agents. Lead identification, synthesis, structure activity relationships, pharmacokinetics, pharmacodynamics and drug metabolism will be discussed. The course will also survey major drug classes and provide case studies. Preq: CHEM 233.

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

CHEM412 (Liberal Arts) Biochemistry 3 hrs. 3 crs. 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. Not open to students with credit in BIO 412.

CHEM421 (Liberal Arts) \$ Physical-Inorganic Laboratory 6 hrs. 3 crs. 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 322, CHEM 342; WRIT 301 or WRIT 302 or WRIT 303 or WRIT 304 or completion of at least 3 Writing Intensive credits at the 100- or 200-level. This is a Writing Intensive course.

CHEM449 (Liberal Arts) Advanced Topics in Chemistry 1 hrs. 1 crs. 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 crs. 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. Coreq: CHEM 322.

CHEM460 (Liberal Arts) Biochemistry I 3 hrs. 3 crs. An introduction to the chemical structure and reactivity of major biological molecules: proteins, nucleic acids, carbohydrates and lipids. Topics include: isolation and analytical techniques used in studying biological molecules; protein function, enzyme kinetics and mechanism; thermodynamics of biochemical transformations and major metabolic pathways. Preq: CHEM 233 and BIO 301.

CHEM461 (Liberal Arts) Biochemistry II 3 hrs. 3 crs. A second course in a two semester sequence in biochemistry designed to investigate the structure and reactivity of biological molecules. Topics include: intermediary metabolism; the citric acid cycle, beta-oxidation, oxidative phosphorylation, and photosynthesis; and nucleic acid metabolism. Preq: CHEM 460.

CHEM462 (Liberal Arts) Experiments in Biological Chemistry 6 hrs. 3 crs. An integrated approach to modern experimental techniques in bioorganic and biophysical chemistry. Topics may include protein expression and analysis; spectroscopy; mass spectrometry; sequence analysis; molecular modeling; protein-nucleic acid and protein-small molecule interactions. Preq: CHEM 460; CHEM 341 or Departmental Permission. This is a Writing Intensive course.

CHEM485 (Liberal Arts) Special Topics in Chemistry 6 hrs. 3 crs. 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 crs. Individually guided investigation of an advanced topic in chemistry. A formal report on topic is required. Preq: Permission of instructor prior to registration. Not open to students with a combined total of 12 credits in Independent Study. PASS/FAIL after 6 credits of Independent Study in these Sciences have been completed. A student may register for only one independent study course per semester. Minimum 6 hours per week.

CHEM491 (Liberal Arts) \$ Independent Study 6 hrs. 3 crs. Individually guided investigation of an advanced topic in chemistry. A formal report on topic is required. Preq: Permission of instructor prior to registration. Not open to students with a combined total of 12 credits in Independent Study in the Natural Sciences Department. PASS/ FAIL after 6 credits of Independent Study in Natural Sciences have been completed. A student may register for only one independent study course in the Natural Sciences Department per semester, or summer session. Minimum 6 hours per week.

CHEM492 (Liberal Arts) \$ Independent Study 6 hrs. 3 crs. Individually guided investigation of an advanced topic in chemistry. A formal report on topic is required. Preq: Permission of instructor prior to registration. Not open to students with a combined total of 12 credits in Independent Study in the Natural Sciences Department. PASS/ FAIL after 6 credits of Independent Study in Natural Sciences have been completed. A student may register for only one independent study course in the Natural Sciences Department per semester, or summer session. Minimum 6 hours per week.

CHEM493 (Liberal Arts) \$ Independent Study 6 hrs. 3 crs. Individually guided investigation of an advanced topic in chemistry. A formal report on topic is required. Preq: Permission of instructor prior to registration. Not open to students with a combined total of 12 credits in Independent Study in the Natural Sciences Department. PASS/ FAIL after 6 credits of Independent Study in Natural Sciences have been completed. A student may register for only one independent study course in the Natural Sciences Department per semester, or summer session. Minimum 6 hours per week.

Chinese

CHIN101 (Liberal Arts) Elementary Chinese I 4 hrs. 3 crs. Basic principles of a beginner's course; designed to give the foundations of the language. Preq: Placement by department. 2 hrs recitation; 2 hrs. laboratory.

CHIN102 (Liberal Arts) Elementary Chinese II 4 hrs. 3 crs. Continuation of the beginner's course; more complex grammatical structures, integrated readings and further practice in conversation. Preq: CHIN 101 or Placement by department. 2 hrs recitation; 2 hrs. laboratory.

CHIN105 (Liberal Arts) Intermediate Chinese I 3 hrs. 3 crs. 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 on the acquisition of vocabulary and grammar, and the encouragement to improve the ability to communicate. Preq: CHIN 102 or placement by department.

CHIN106 (Liberal Arts) Intermediate Chinese II 3 hrs. 3 crs. The course will focus on further developing integrated Chinese language skills. Comprehensive grammar will be emphasized, along with development of reading and writing ability and more extensive oral practice. Students will participate in discussions in Mandarin Chinese on various topics, and learn to write paragraphs on those topics in Chinese. Different aspects of Chinese culture will also be introduced throughout the course. Preq: CHIN 105.

Cultural Diversity

CLDV100 (Liberal Arts) Introduction to Multicultural Studies in the 21st Century 3 hrs. 3 crs. A study of what culture is; how it influences the choices we make; how to deal positively with conflicts that inevitably arise in working/living situations with people of diverse cultures. It is a course structured to raise multicultural awareness and fortify students' social skills in dealing with cultural differences. It includes ethnographic study of cultural groups in the U.S.A. Through the study of cultural concepts, this course develops skills in critical thinking, writing and scholarly documentation. Not open to students with credit in CLDV 101 or Core 101. Preq: ENG 125. Coreq: ENG 125. This is a Writing Intensive course. [Flexible Core: Individual and Society]

CLDV101 (Liberal Arts) Understanding Cultural Diversity 4 hrs. 3 crs. 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 crs. 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 or CLDV 100; ENG 125.

CLDV202 (Liberal Arts) Cultures and Societies of the World: The Far East and South East Asia 3 hrs. 3 crs. 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 or CLDV 100; ENG 125.

CLDV203 (Liberal Arts) Cultures and Societies of the World: Asia and the Middle East 3 hrs. 3 crs. 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 or CLDV 100; ENG 125.

CLDV210 (Liberal Arts) Western Civilization 3 hrs. 3 crs. 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. This is a Writing Intensive course. [Flexible Core: World Cultures and Global Issues]

Clinical Laboratory Science

CLS252 (Not Liberal Arts) \$ Introduction Hematology/Phlebotomy 4 hrs. 3 crs. In the hematology section of the course formed elements of the peripheral blood and bone marrow, their precursors, function, and structure, including manual laboratory tests 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; BIO 265; CHEM 230; CHEM 235; CLS 330. 2 hours lecture, 2 hours laboratory.

CLS330 (Not Liberal Arts) \$ Human Anatomy and Physiology for Clinical Lab Scientists 4 hrs. 3 crs. This course introduces the student to the structure and function of all human organ systems. The pathophysiology of representative organ and systemic diseases will be discussed. Preq: BIO 202; CHEM 230; CHEM 235. 2 hours lecture, 2 hours laboratory.

CLS332 (Not Liberal Arts) \$ Tissue Techniques 3 hrs. 2 crs. Students will learn how to sample, process, embed, section and stain tissues. The chemical rationale for various staining procedures will be discussed. Coreq: BIO 202; CHEM 230; CHEM 235; CLS 330. 1 hour lecture, 2 hours laboratory.

CLS341 (Not Liberal Arts) \$ Clinical Immuno-Serology 3 hrs. 2 crs. This course will cover innate and adaptive immunity (humoral and cell-mediated immune defenses). Immune disorders will be addressed

as well as tumor and transplant immunology. Techniques to identify specific immune mediators and infectious diseases will be examined. Students will perform manual lab tests to assess one's immune status. Preq: BIO 265; CLS 252; CLS 330. Coreq: CLS 351.

CLS343 (Not Liberal Arts) \$ Immuno-Hematology and Blood Banking 4 hrs. 3 crs. This course covers the collection, processing, preparation, preservation, screening and distribution of whole blood, components, and derivatives. The student will study the genetics related to erythrocyte and histocompatibility antigens. In the lab, the students will identify cell antigens and the corresponding antibodies. They will discuss cross-matching techniques and detection of hemolytic disorders. Preq: CLS 252; CLS 330. 2 hours lecture, 2 hours laboratory.

CLS351 (Not Liberal Arts) \$ Clinical Chemistry 5 hrs. 4 crs. This course covers the clinical significance of abnormal concentrations of serum analytes (e.g., carbohydrate, proteins, hormones, enzymes, electrolytes, blood gases, tumor antigens, therapeutic drugs, etc.). In the lab, the chemical principles behind the most common methodologies are discussed. Students will perform various manual spectrophotometric assays. Preq: BIO 202; CHEM 230; CHEM 235; CHEM 241; CLS 330. This is a Writing Intensive course. 3 hours lecture, 2 hours laboratory.

CLS352 (Not Liberal Arts) \$ Advanced Hematology 4 hrs. 3 crs. This course presents the causes and defining characteristics of various erythrocyte and leucocyte disorders, e.g., anemias, acute and chronic leukemias, lymphomas, myeloma, etc. Students will study the microscopic findings and related physiologic changes. Students will learn how to interpret data and histograms provided by automated cell analyzers. Preq: CHEM 230; CHEM 235; CLS 252; CLS 330. 2 hours lecture, 2 hours laboratory.

CLS353 (Not Liberal Arts) \$ Medical Mycology and Parasitology 4 hrs. 3 crs. The proper collection and processing of human specimens for detection and identification of clinically significant fungi and parasites will be presented. In the lab the students will study the morphological characteristics of pathogenic yeast, molds, protozoans and worms. Life cycles and epidemiology will be discussed briefly. Preq: BIO 202; BIO 265; CHEM 230; CHEM 235. 2 hours lecture, 2 hours laboratory.

CLS354 (Not Liberal Arts) \$ Coagulation 4 hrs. 3 crs. 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. Preq: CLS 252; CHEM 230; CHEM 235. 2 hours lecture, 2 hours laboratory.

CLS357 (Not Liberal Arts) \$ Clinical Bacteriology 6 hrs. 4 crs. This course will discuss appropriate specimen collection and processing for identification of bacterial disease agents. The students will learn the microscopic and biochemical testing required for speciation of pathogenic bacteria. They will be introduced to both manual and automated methods for speciation and antibiotic susceptibility testing. Preq: BIO 265; CHEM 230; CHEM 235; CLS 330. 2 hours lecture, 4 hours laboratory.

CLS358 (Not Liberal Arts) Diagnostic Techniques in Molecular Pathology 3 hrs. 3 crs. This course presents the applications of biotechnology methods to diagnose disease. These techniques are used to define the composition of DNA and RNA to allow for detection and identification of microbial pathogens, genetic disorders, and malignant cells. This course will introduce students to gene probe applications, polymerase chain reaction (PCR) technology, and gene sequencing. Proteomics will also be addressed with a focus on flow

cytometry applications. Preq: CLS 330; CLS 252. Coreq: CLS 352; CLS 343; CLS 357; Coreq for WI: WRIT 301 or WRIT 302 or WRIT 303. This is a Writing Intensive (WI) course.

CLS361 (Not Liberal Arts) \$ Urinalysis and Body Fluids 4 hrs. 3 crs. This course will teach the students how to assay the cellular and chemical composition of body fluids such as urine, cerebrospinal fluid, amniotic fluid, pleural fluid, semen, and synovial fluid. The clinical significance of abnormal findings will be discussed. Students will learn to handle and analyze urine and non-blood body fluids while keeping the laboratory safe from infectious agents. Preq: BIO 265; CHEM 230; CHEM 235; CLS 252; CLS 330. 2 hours lecture, 2 hours laboratory.

CLS362 (Not Liberal Arts) Seminar for Professional Issues in Clinical Laboratory Sciences 2 hrs. 2 crs. An introduction to professional issues in the clinical laboratory sciences, including governmental regulations, personnel management, financial management, medical ethics, quality assurance, etc. Preq: CLS 252; CLS 351.

CLS459 (Not Liberal Arts) \$ Internship for Clinical Laboratory Sciences I Minimum 500 hrs. 5 crs. This is the first 15-week semester of a two-semester clinical internship; full-time (35 hrs/wk) at an affiliated hospital with rotation periods in various sections of the laboratory. Preq: Students must have successfully completed all other requirements for graduation; a minimum cumulative GPA of 2.5 in CLS courses; a minimum overall GPA of 2.5; and permission of the Director of the Clinical Laboratory Science Program. Minimum 500 hours for the semester. Students will receive a letter grade based on written, practical and oral exams at the affiliating training site. A final exam counting 50% of the final grade will be completed on campus.

CLS460 (Not Liberal Arts) \$ Internship for Clinical Laboratory Sciences II Minimum 500 hrs. 5 crs. This is the second 15 week semester of a two-semester clinical internship; full-time (35 hrs/wk) at an affiliated hospital with rotation periods in various sections of the laboratory. Preq: Students must have successfully completed all other requirements for graduation; a minimum cumulative GPA of 2.5 in CLS courses; a minimum overall cumulative GPA of 2.5 and permission of the Director of the Clinical Lab Science program. Minimum 500 hours for the semester. A final exam counting toward 50% of the final grade will be completed on campus.

COOP211 (Not Liberal Arts) Work Experience and Seminar II 240 hrs. 3 crs. 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 (Not Liberal Arts) Work Experience and Seminar III 226 hrs. 3 crs. 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.

COOP411 (Not Liberal Arts) Work Experience and Seminar IV 226 hrs. 3 crs. 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.

Creole

Cooperative Education

COOP101 (Not Liberal Arts) Co-op Orientation 2 hrs. 1 crs. 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 (Not Liberal Arts) Work Experience and Seminar I 255 hrs. 3 crs. 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.

CRE101 (Liberal Arts) Elementary Creole I 4 hrs. 3 crs. The course covers basic Creole structures through intensive conversation, reading and writing. It is designed for non-native speakers of Creole who wish to get acquainted with the Creole language and the Haitian Culture. It includes situational dialogues and vocabulary, spelling and reading exercises, songs, tales, proverbs, etc. Preq: Placement by department. 2 hrs recitation; 2 hrs. laboratory.

CRE102 (Liberal Arts) Elementary Creole II 4 hrs. 3 crs. Continuation of the beginners' course; more complex grammatical structures; integrated reading and further practice in conversation. Preq: CRE 101 or Placement by department. 2 hrs recitation; 2 hrs. laboratory.

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

CRE205 (Liberal Arts) Creole Writing and Composition 3 hrs. 3 crs. 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. Preq: CRE 106.

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

CRE241 (Liberal Arts) Translation I 3 hrs. 3 crs. 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. Preq: CRE 106 and ENG 125.

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

CRE243 (Liberal Arts) Haitian Poetry 3 hrs. 3 crs. 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. Preq: CRE 106 or Department permission required.

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

CRE245 (Liberal Arts) Haitian Novel, Folklore, and the Oral Tradition 3 hrs. 3 crs. 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. Preq: CRE 106 or Department permission required.

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

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

CRE400 (Liberal Arts) Seminar on Creole 3 hrs. 3 crs. A research seminar on a topic in Creole. Preq: 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

CS100 (Liberal Arts) Introduction to Computational Thinking 3 hrs. 3 crs. Various computing terminologies; algorithms and how they are used to program simple computer applications; introduction to object-oriented programming; program development; major concepts of programming: variables, data types, functions, parameters, conditionals, loops; application of simple programming in solving practical problems.

CS172 (Liberal Arts) Computer Science I 4 hrs. 4 crs. 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. Preq: MATH 115 or MATH 121. Coreq: MATH 115 or MATH 121. Not open to students with credit in MATH 172. Students are expected to complete several laboratory assignments.

CS261 (Liberal Arts) Data Communications I 4 hrs. 4 crs. Introduction to principles of data communication: modems, communications, software, controllers, industry protocols, and networks. Preq: MATH 141 or MATH 225, and CS 172. Not open to students with credit in MATH 493.

CS291 (Liberal Arts) Computer Science II 4 hrs. 4 crs. 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. Preq: CS 172. Coreq: MATH 141 or MATH 225. Not open to students with credit in MATH 291.

CS292 (Liberal Arts) Introduction to Database Management 4 hrs. 4 crs. 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. Preq: MATH 141 or MATH 225, and CS 172. Not open to students with credit in MATH 292.

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

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

CS334 (Liberal Arts) Computer Graphics 3 hrs. 3 crs. 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. Preq: CS 341 and MATH 225.

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

CS351 (Liberal Arts) Algorithm Design and Analysis 4 hrs. 4 crs. Fundamental principles of algorithm design and analysis. Topics include divide-and-conquer methods, backtracking, graph algorithms, practical data structures, randomized algorithms, greedy algorithms, recursive algorithms and dynamic programming. Asymptotic performance of algorithms will be used to identify the differences among best, average, and worst case behaviors. Algorithm analysis will be used to design and implement practical solutions using a high level programming language. Empirical measurement of performance of the solution will be compared with theoretical analysis. This course requires completion of several programming assignments and projects. Preq: MATH 210. Coreq: CS 341.

CS357 (Liberal Arts) Principles of Programming Languages 4 hrs. 4 crs. Principles of programming language design; implementation of procedural, functional, and logic programming languages including syntax, binding of variables, type coercion and equivalence (including weakly typed languages); scope and extent of variables, parameter passing and environments; formal semantics. Programming projects will use programming languages which illustrate in practice the theoretical foundations. Preq: CS 341, MATH 225. 4 hours lecture.

CS361 (Liberal Arts) Data Communications II 4 hrs. 4 crs. 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. Preq: CS 261. Not open to students with credit in MATH 494.

CS365 (Liberal Arts) Software and Web Applications Security 4 hrs. 4 crs. Introduction to common vulnerabilities in software and web applications; countermeasures against attacks; identification and exploitation of software and web application vulnerabilities; threat modelling; basic security principles behind the development of software systems; use of security tools; vulnerabilities assessment; legal and ethical issues. Students are expected to complete several laboratory assignments. Preq: CS 291.

CS371 (Liberal Arts) Business Programming 4 hrs. 4 crs. Concepts and methods of object oriented program development with Visual Basic as applied to modern business applications. Topics include procedures, functions, forms, ActiveX controls, files, graphical data display, Object Linking and Embedding, Dynamic Data Exchange, user interface design, and applications to spread sheet software. Students will be expected to complete several programming assignments. Preq: MATH 291 or CS 291. Not open to students with credit in Math 193.

CS377 (Liberal Arts) Artificial Intelligence 3 hrs. 3 crs. 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. Preq: MATH 225 and CS 341.

CS381 (Liberal Arts) Software Development 4 hrs. 4 crs. 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. Preq: MATH 141 or MATH 225, and CS 291. Not open to students with credit in MATH 381.

CS382 (Liberal Arts) Software Engineering 3 hrs. 3 crs. 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. Preq: CS 381. Not open to students with credit in MATH 382.

CS391 (Liberal Arts) Object-Oriented Programming 4 hrs. 4 crs. 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). Preq: CS 291.

CS392 (Liberal Arts) Database Systems 4 hrs. 4 crs. Entity-Relationship model, relational algebra, relational calculus, SQL, integrity constraints, functional dependencies, normalization of data, storage and file structure, transactions, concurrency control and recovery. Preq: CS 341 and MATH 225, or CS 341 and CS 292.

CS397 (Liberal Arts) Assembly Language Programming 4 hrs. 4 crs. Computer structure, number systems, registers and addressing systems; data manipulation; related topics; assembly language programming. Preq: The equivalent or permission of instructor. Not open to students with credit in MATH 397. Students are expected to complete several laboratory assignments.

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

CS401 (Liberal Arts) Independent Study in Computer Science: Research and Writing 2 hrs. 2 crs. Independent study of selected advanced topics in computer science under supervision of

departmental faculty, focusing on research through writing critical analysis and literature survey. Preq: Departmental permission required. This is a Writing Intensive course.

CS451 (Liberal Arts) Operating Systems 4 hrs. 4 crs. 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. Preq: 1. CS 397 2. Eng 126. This is a Writing Intensive course.

CS452 (Liberal Arts) Unix Operating System 3 hrs. 3 crs. 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. Preq: CS 341 and CS 451. 3 hours lecture.

CS457 (Liberal Arts) Introduction to Automata and Computability 4 hrs. 4 crs. Alphabets, languages, deterministic and nondeterministic finite automata, regular expressions, language acceptors, grammars, Turing machines and computability. Preq: CS 341 or department permission required.

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

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

CS471 (Liberal Arts) Windows Programming 4 hrs. 4 crs. 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). Preq: CS 391.

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

CS491 (Liberal Arts) Advanced Topics in Computing/ Information Systems Management 2 hrs. 2 crs. 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.

CS492 (Liberal Arts) Advanced Topics in Computing/ Information Systems Management 2 hrs. 2 crs. 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 3 hrs. 3 crs. 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 3 hrs. 3 crs. 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 3 hrs. 3 crs. 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 3 hrs. 3 crs. 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 3 hrs. 3 crs. 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 3 hrs. 3 crs. 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 3 hrs. 3 crs. 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 (Not Liberal Arts) \$ Digital Storytelling 4 hrs. 3 crs. An exploration in the use of digital tools to develop a wide variety of digital narratives. Students will be required to design and build an online identity and narrate their process throughout the semester. They will place themselves within a larger narrative of networked conversation on the internet at large. This may be offered as an online or hybrid course. Preq: ENG 125. 2 hour lecture, 2 hour laboratory. This may be offered as an online or hybrid course.

CT137 (Not Liberal Arts) \$ Hacking and Building 4 hrs. 3 crs. An introduction to electronics, programming and prototyping through building, rebuilding, modifying, and creating software, electronic hardware, or anything else, either to make it better or faster or to give it added features or to make it do something it was never intended to do. Preq: ENG 125.

CT160 (Not Liberal Arts) User Experience Design 4 hrs. 3 crs. Explores research, design and evaluation methodologies for User and Interface interaction. Students will research and analyze user problems; explore ideation and communication of user-centered design through personas, user flows, mood boards, wireframes and prototyping; and learn to present, defend and critique design decisions. Introduces foundation digital imaging skills. Focused on hands-on learning through individual assignments, application of design skills in group mini-projects, and peer critique. Preq: ENG 125.

CT201 (Not Liberal Arts) Foundations in Communications Technology 3 hrs. 3 crs. 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. This is a Writing Intensive course.

CT205 (Not Liberal Arts) Principles of the Moving Image 3 hrs. 3 crs. Introduction to the fundamental principles of visual media (film, television, web, games, etc.) with an emphasis on analyzing how the elements of form and style construct meaning. Preq: ENG 125. 3 hour lecture. This is a Writing Intensive course.

CT210 (Not Liberal Arts) \$ Portrait Documentary 4 hrs. 3 crs. Single camera documentary production for short subject pieces, a fundamental building block for most non-fiction film and television - conduct and video interviews, shoot coverage, and edit materials with non-linear editing systems. Preq: ENG 125.

CT240 (Not Liberal Arts) \$ Studio Television Production 4 hrs. 3 crs. Techniques in contemporary multi-camera television production including lighting, sound, set design and post-production. Preq: ENG 125. 2 hours lecture, 2 hours laboratory.

CT244 (Not Liberal Arts) \$ Multimedia Sound Production 4 hrs. 3 crs. 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: ENG 125. 2 hours lecture, 2 hours laboratory.

CT345 (Not Liberal Arts) \$ Introduction to Motion Graphics 4 hrs. 3 crs. Introduction to the techniques of motion graphics production for television and web: rotoscoping, keying and matting of layered video sequences. Preq: CT 160. 2 hours lecture, 2 hours laboratory.

CT355 (Not Liberal Arts) \$ Cinematography 4 hrs. 3 crs. Theory and practice of motion picture storytelling as it influences the structure and meaning of film - including analysis of shot selection and camera movement and exercises in film aesthetics with camera, light, and grip equipment. Preq: CT 210 or CT 240 or CT 244. 2 hours lecture; 2 hours laboratory.

CT360 (Not Liberal Arts) \$ Web Design I 4 hrs. 3 crs. The fundamentals of web design and coding - covering HTML, XHTML, interactivity, information architecture and navigational structures. There is an emphasis on usability and web design strategies that are compliant with the latest standards and best practices. Preq: CT 160. 2 hours lecture, 2 hours laboratory.

CT370 (Not Liberal Arts) Web Development I 4 hrs. 3 crs. Builds on fundamental concepts of constructing web pages, expanding to generating robust, dynamic and interactive client side applications of current web technologies. Students will learn to employ scripting languages, libraries, and frameworks to construct interactive and responsive front-ends to server applications. Also considers asynchronous scripting, REST, callbacks, APIs and formatting for mobile devices. Preq: CT 360. 2 hours lecture, 2 hours laboratory.

CT380 (Not Liberal Arts) Webcasting 4 hrs. 3 crs. 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 (Not Liberal Arts) Web Design II 4 hrs. 3 crs. Building on the skills learned in Web Design 1 - covering advanced HTML 5/ CSS3 techniques, server and client-side scripting languages, Content Management Systems (CMS) and the full Web Development lifecycle. Preq: CT 360. 2 hours lecture, 2 hours laboratory.

CT385 (Not Liberal Arts) Web Development II 4 hrs. 3 crs. Explores commonly used server-side programming languages as well as frameworks to build web applications including elements of full stack development, interaction with databases. Examines interactions of APIs with data services, such as asynchronously loading content and pulling data for real time information. Investigates API development to create programs and interfaces for mobile, web and other platforms. Also discusses collaboration and contribution to software repository/versioning tools. Preq: CT 370. 2 hours lecture, 2 hours laboratory.

CT390 (Not Liberal Arts) Online Communities 3 hrs. 3 crs. Design, evaluation, and analysis of online communities, and their social, legal and educational dimensions. Preq: CT 201.

CT391 (Not Liberal Arts) Telecommunications in Transition 3 hrs. 3 crs. 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 (Not Liberal Arts) Portfolio Design 4 hrs. 1 crs. 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. Coreq: Completion of 3 credits in Major and permission of the department. Seven meetings per semester plus two hours orientation.

CT401 (Not Liberal Arts) Final Project/Senior Seminar 3 hrs. 3 crs. 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 (Not Liberal Arts) Special Projects - Production 4 hrs. 3 crs. 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 laboratory.

CT416 (Not Liberal Arts) Special Projects - Production 4 hrs. 3 crs. 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 laboratory.

CT417 (Not Liberal Arts) Special Projects - Production 4 hrs. 3 crs. 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 laboratory.

CT418 (Not Liberal Arts) Special Projects - Production 4 hrs. 3 crs. 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 laboratory.

CT419 (Not Liberal Arts) Special Projects - Production 4 hrs. 3 crs. 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 laboratory.

CT425 (Not Liberal Arts) Special Projects - Seminar 3 hrs. 3 crs. A selected topic in communications technology. The topic varies with each offering. Preq: CT 201.

CT426 (Not Liberal Arts) Special Projects - Seminar 3 hrs. 3 crs. A selected topic in communications technology. The topic varies with each offering. Preq: CT 201.

CT427 (Not Liberal Arts) Special Projects - Seminar 3 hrs. 3 crs. A selected topic in communications technology. The topic varies with each offering. Preq: CT 201.

CT428 (Not Liberal Arts) Special Projects - Seminar 3 hrs. 3 crs. A selected topic in communications technology. The topic varies with each offering. Preq: CT 201.

CT429 (Not Liberal Arts) Special Projects - Seminar 3 hrs. 3 crs. A selected topic in communications technology. The topic varies with each offering. Preq: CT 201.

CT490 (Not Liberal Arts) Internship 20 hrs. 3 crs. 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. Preq: CT 399 and permission of the department. 20 hours/week or 300 hours/semester.

CT491 (Not Liberal Arts) Internship 20 hrs. 3 crs. 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. Preq: CT 399 and permission of the department. 20 hours/week or 300 hours/semester.

Clinical Trials Management

CTM501 (Not Liberal Arts) Introduction to Clinical Trial and Clinical Research Terminology 3 hrs. 3 crs. This course will provide a comprehensive introduction to the clinical trial process. Historical evolution of clinical research regulation will explain the implementation of laws associated with clinical research. Legislative and regulatory reforms to impose the safety, efficacy and ethical issues related to healthcare product development will be covered. Topics will include drug development and preclinical studies as well as different phases of clinical trials, protection of human subjects, brief introduction of the roles and responsibilities of clinical research teams and clinical research organizations. Students will also be introduced to basic medical and clinical research terminology including commonly used acronyms and abbreviations. Preq: Department permission.

CTM502 (Not Liberal Arts) Foundation of Regulatory Affairs in a Global Environment 3 hrs. 3 crs. This course will provide an overview of the responsibility of the US Food and Drug Administration (FDA) and the International Conference on Harmonization, Good Clinical Practice (ICH GCP) in protecting and promoting public health by regulating the drugs, biologics and medical devices in the US and globally. The course will also describe different Code of Federal Regulations applicable to the clinical trial process. Preq: Department permission.

CTM503 (Not Liberal Arts) Clinical Trial Project Management 3 hrs. 3 crs. Project management is the process and activity of planning, organizing and controlling resources and procedures to produce a specific output. This course examines knowledge, skills and techniques for project management in the biomedical industry and applies them to project management for medical devices, drug development, clinical trials and managing an international project. Not open to students with credit in PHS 521. Preq: Department permission.

CTM505 (Not Liberal Arts) Ethical Considerations in Clinical Research 3 hrs. 3 crs. This course will describe the history of misconduct in biomedical research, evolution of research ethics and current ethical and regulatory guidance for design, conduct, monitoring, auditing and reporting of clinical trials or studies involving human subjects. Ethical issues in international clinical research will also be discussed. Preq: Department permission.

CTM506 (Not Liberal Arts) Clinical Trial Implementation 3 hrs. 3 crs. The course will describe the clinical trial as an interdisciplinary research project that involves cooperation of different entities and/or individuals. An overview of appropriate rules and regulations for the structuring, managing and monitoring of clinical trials as well as the responsibilities of key players of clinical trials will be provided. It will explain in details the responsibility of the sponsor following the initiation of the clinical trial process such as, preparation of budgets and contracts, implementation of monitoring visits, and effective management of research sites. Preq: Department permission.

CTM507 (Not Liberal Arts) Introduction to Medical Writing- Document Preparation 3 hrs. 3 crs. This course will provide an overview of the medical writing with an emphasis on protocol development and review, clinical study report process, investigator brochure preparation and updates, and submission information. Preq: Department permission.

CTM508 (Not Liberal Arts) Clinical Trial Data Management 3 hrs. 3 crs. The course will discuss the requirement of data management in clinical trial system for integrity and quality of trial-related data, different approaches to clinical trial data collection and various regulatory aspects of data management. Use of electronic health record data in clinical investigation will also be discussed. Preq: Department permission; CTM 502; CTM 506.

CTM509 (Not Liberal Arts) Drug Safety and Pharmacovigilance 3 hrs. 3 crs. This course is designed to aid the understanding of the scope and purpose of drug safety and pharmacovigilance with the ultimate goal to minimize risk, avoid product recall, and meet US and EU safety reporting standards of healthcare products. The course will describe adverse drug reactions, identification of possible adverse events as evident from pre-clinical studies, clinical trials as well as post marketing surveillance. The course will also address the regulatory aspects of pharmacovigilance. Preq: CTM 502; Department permission.

CTM510 (Not Liberal Arts) Clinical Trial Management Capstone Project 3 hrs. 3 crs. Research or Internship in Clinical Trial Management. Preq: Department permission.

CTM511 (Not Liberal Arts) Clinical Epidemiology 3 hrs. 3 crs. The course will provide an overview of the application of principles of epidemiology to clinical medicine and the basic science of evidence-based medicine. The students will be exposed to well-focused research questions about real-world clinical practice and healthcare for the cause, diagnosis, prevention and treatment of diseases. Preq: Department permission.

CTM512 (Not Liberal Arts) Global Regulatory Affairs 3 hrs. 3 crs. This course will provide an overview of the relations between international regulatory authorities and analysis of the regulatory processes for drugs, biologics and medical devices in the European Union, Canada, Japan, China and India. Preq: CTM 502; Department permission.

CTM513 (Not Liberal Arts) Medical Writing: Document Submission 3 hrs. 3 crs. This course will provide an overview of the basic regulatory and writing skills essential for a medical writer to prepare and submit documents to the appropriate regulatory agencies so that the drug, device or biologics can be approved for clinical studies in humans. It will also explain the importance of interpersonal skill to successfully work in a team with team members of different technical expertise whose contribution is essential to meet the requirement for the approval of the regulatory agency following the submission process. Preq: CTM 507; Department permission.

CTM514 (Not Liberal Arts) Medical Writing: Investigational Applications For Drugs, Biologics And Medical Devices 3 hrs. 3 crs. This course will provide an overview of a variety of investigational applications prepared by regulatory and medical writers for drugs/biologics and medical devices. Key investigational submissions covered include region-specific applications for drugs/biologics such as the Investigational New Drug Application (IND) in US, Clinical Trial Application (CTA) in Canada and Investigational Medicinal Product Dossier (IMPD) in Europe, as well as those required for investigational devices such as the Investigational Device Exemption (IDE) in US and Investigational Testing Authorization (ITA) in Canada. Components of each of these application types will be discussed. Instructions will be provided on how to write detailed and accurate submission documents. Preq: CTM 507; Department permission.

CTM515 (Not Liberal Arts) Medical Writing: Drugs, Biologics And Medical Devices License Applications 3 hrs. 3 crs. This course will provide an overview of various complex submission documents prepared by medical writers using common technical document/electronic common technical document (CTD/eCTD) used for the preparation and submission of premarketing applications of new

products to the regulatory authorities of various countries such as US, EU, Japan, Canada, Australia and India. Crucial points, such as region-specific considerations for clinical sections in US New Drug Applications (NDA), US Biologics License Application (BLA) and EU Marketing Authorization Applications (MAA) will be discussed. The students will also learn about the two different types of primary premarketing submissions for medical devices, i.e. Premarket Notification application 510(K) and Premarket Approval (PMA). The students will be introduced to the different components of these submissions and different steps to follow in order to write regulatory applications to be submitted to FDA. Preq: CTM 507; Department permission.

CTM516 (Not Liberal Arts) \$ Clinical Trial Quality and Compliance 3 hrs. 3 crs. This course will provide an overview of issues related to clinical trial quality and compliance. Contents includes: quality management systems, standard operating procedures, training, quality agreements, conducting and managing investigations, corrective and preventive actions (CAPAs), and inspection preparation, support and conduct. Preq: CTM 506; Department permission.

CTM517 (Not Liberal Arts) SAS Programming 3 hrs. 3 crs. An introduction to the SAS programming environment, including program design, importing data, dataset creation and processing, statistical analysis, and creating tables and graphs. Preq: Department permission.

Economics

ECON102 (Liberal Arts) Introduction to Microeconomics 3 hrs. 3 crs. 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. This course may be offered as an online course. [Flexible Core: Individual and Society]

ECON103 (Liberal Arts) Introduction to Macroeconomics 3 hrs. 3 crs. 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. This course may be offered as an online course.

ECON116 (Liberal Arts) Natural Resource Economics and Policy 3 hrs. 3 crs. This course applies theoretical and empirical economic tools to a number of environmental issues. The broad concepts discussed include externalities, public goods, property rights, market failure, and social cost-benefit analysis. These concepts are applied to a number of areas including nonrenewable resources, air pollution, water pollution, solid waste management, and hazardous substances. Special emphasis is devoted to analyzing the optimal role for public policy. This course may be offered in a face-to-face, hybrid or asynchronous online format. Preq: ECON 102 or ECON 103.

ECON200 (Liberal Arts) Intermediate Microeconomics 3 hrs. 3 crs. 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. Preq: ECON 102 or ECON 103.

ECON210 (Liberal Arts) Intermediate Macroeconomics 3 hrs. 3 crs. 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. Preq: ECON 103.

ECON220 (Liberal Arts) Introduction to Economic Statistics 4 (2 hours recitation, 2 hours laboratory) hrs. 3 crs. Presentation and interpretation of statistical data, statistical inference, correlation and regression. 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. Not open to students with credit in SOC 220. This course may be offered in a face-to-face, hybrid or asynchronous online format. Preq: ECON 103.

ECON295 (Liberal Arts) Global Environmental Issues 3 hrs. 3 crs. Understanding the rise of environmental issues on the world agenda and assessing the effectiveness of current structures and policies to resolve them requires a basic understanding of the major problems. This course covers a number of looming global environmental problems, but also what society can do about them. It introduces students to a number of socio-economic factors that contribute to environmental issues, and use them to gain insight into and draw parallels between specific environmental problems. Preq: ECON 102 or ECON 103.

ECON300 (Not Liberal Arts) History of Economic Thought 3 hrs. 3 crs. The writings of contributors to the development economic thought including Smith, Malthus, Hume, Marx, Marshal and Ricardo. Preq: ECON 102 and ECON 103 Coreq: ECON 102 and ECON 103. This is a Writing Intensive Course. This course can be offered as a face-to-face course or a hybrid course.

ECON305 (Liberal Arts) Economics of Travel and Tourism 3 hrs. 3 crs. The course aims to equip students with the understanding of the basic concepts about tourism as well as the fundamental role played by tourism in developed and developing countries. Different aspects of tourism will be analyzed in the course such as the demand, supply, economic impacts, costs and benefits, social and environmental consequences and tourism as a potential factor to develop destination areas. Preq: ECON 102 or ECON 103.

ECON306 (Liberal Arts) Economics of Forestry 3 hrs. 3 crs. Forests and other natural resources serve many economic, social, and environmental needs of people around the world. The patterns of use and management of natural resources can have a profound impact on the economy and the environment. The course aims to introduce students to factors in the evolution of forest, wildlife and related natural resources administration and policies. Preq: ECON 102 or ECON 103.

ECON310 (Liberal Arts) Public Finance 3 hrs. 3 crs. Principles of government finance, public expenditures, revenues, and indebtedness; special attention to selected tax and budgetary problems. Preq: ECON 103.

ECON311 (Liberal Arts) Money and Banking 3 hrs. 3 crs. Principles and history of money and banking; major reference to the experience and problems of the United States. Preq: ECON 103. This course may be offered as an online course.

ECON316 (Liberal Arts) Sustainable Development 3 hrs. 3 crs. This course is designed to introduce students to the core concepts, principles and practices of sustainable development. It examines the environmental, economic, and social dimensions of sustainable development by focusing on changing patterns of consumption, production, and distribution of resources. This course also considers the evolving models of the economic evaluation of Sustainable Development initiatives and programs. Preq: ECON 102 or ECON 103.

ECON331 (Liberal Arts) Economics of Underdeveloped Areas 3 hrs. 3 crs. Analysis of the causes of economic underdevelopment and the alternative strategies of economic development. This course may be offered in a face-to-face, hybrid or asynchronous online format. Preq: ECON 103.

ECON333 (Liberal Arts) Urban Economics 3 hrs. 3 crs. 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. Preq: ECON 103.

ECON340 (Liberal Arts) International Economics 3 hrs. 3 crs. Economic relations among nations and geographic regions, including balance of payment accounts, foreign exchange markets, adjustment mechanisms, tariffs and the foundations of trade policies. Preq: ECON 103.

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

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

ECON361 (Liberal Arts) Economics of Trade Unions and Collective Bargaining in the United States 3 hrs. 3 crs. 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. Preq: ECON 102.

ECON390 (Liberal Arts) Independent Research 3 hrs. 3 crs. Investigation of a problem, determined by the student in consultation with a member of the Economics staff. Preq: ECON 220. This is a writing intensive course.

ECON419 (Liberal Arts) Environment and Government Regulations 3 hrs. 3 crs. This course examines environmental management from the perspectives of government regulators, private corporations, and nonprofit organizations. Students will examine the various Environmental Acts as well as have an understanding of Comprehensive Environmental Response, Compensation, and Liability Act; and other relevant laws and regulations dealing with air and water quality and the pollution effects. Preq: ECON 102 or ECON 103.

ECON420 (Liberal Arts) Advanced Economic Statistics 3 hrs. 3 crs. 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 crs. The principles and applications of econometric techniques to economics and business. Preq: ECON 220 Not offered on a regular basis. Availability to be determined by the department.

Education

EDUC230 (Not Liberal Arts) \$ Teaching with Multimedia Technology 4 hrs. 2 crs. 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. 4 hours laboratory. This course may be offered in a face-to-face, hybrid or asynchronous online format.

EDUC231 (Not Liberal Arts) Computer Science Education in K-12 Settings 3 hrs. 3 crs. This course provides students opportunities to learn how to effectively teach computer science

courses in a K-12 setting. It explores computer science as a discipline and a new way of thinking that encourages inquiry, creativity, and collaboration. Hands-on activities are embedded in the weekly lectures to help students gain insights about teaching and learning computer concepts and building pedagogical skills. Students will examine a variety of computing tools, virtual environments, and programming environments that support learning across disciplines and design computer-based instructional activities that are pertinent to a diverse student population. The course includes discussions of societal and ethical issues related to computer science. It supports students in making informed decision for future Computer Science curriculum development. Preq: ENG 125. Coreq: EDUC 230.

EDUC268 (Not Liberal Arts) \$ Bilingual and English Language Learner (ELL) Education 3 hrs. 3 crs. 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. Preq: 1.EDUC 280 or EDUC 271 2. Department Permission Required. The completion of 15 hours of fieldwork is required. Not open to students with credit in EDUC 269.

EDUC271 (Liberal Arts) \$ Adolescent and Youth Development 3 hrs. 3 crs. 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. A wide range of contextual issues will be explored as students develop an understanding of the complexities and diversities of adolescent and youth development in an urban context. Preq: ENG 125. This course carries a Liberal Arts designation. 15 hours of fieldwork is required. This is a Writing Intensive course.

EDUC280 (Liberal Arts) \$ Child and Adolescent Development for Teachers 3 hrs. 3 crs. 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. Preq: ENG 125. This course may be offered in a face-to-face or hybrid format. This is a Writing Intensive course.

EDUC283 (Liberal Arts) \$ Educational Psychology: Effective Teaching & Learning in Diverse Classrooms 3 hrs. 3 crs. This course provides an overview of learning and instructional issues in teaching in diverse classrooms. Behaviorism, social and cognitive constructivism, and socio-cultural theories will be examined and applied in the context of diverse classrooms. Teacher candidates will engage in critical analysis of these theories and their application to pedagogical practices in urban schools and diverse classrooms. They will evaluate curriculum designs and methods of instructions and assessment for students who are linguistically and culturally diverse. Students will design alternate pedagogical practices and evaluate learner outcomes. In addition, the role of technology in instruction will also be examined. Preq: EDUC 280 or EDUC 271. This course carries a Liberal Arts designation. 10 hours of fieldwork is required. This course may be offered in a face-to-face or hybrid format.

EDUC285 (Not Liberal Arts) Introduction to Special Education 3 hrs. 3 crs. This course introduces students to the philosophical and historical foundations of special education, as well as contemporary issues and trends in the field. Students will review educational laws and policies and understand the rights and responsibilities of all involved. In addition, students will examine various areas of exceptionality including multiple disabilities, visually and hearing impaired, speech or language impairments, autism spectrum

disorders, emotional disturbance, learning disabilities, gifted and talented, and other health impairments. The referral process, the individual evaluation process, Individualized Education Program (IEP), multi-disciplinary team responsibilities, annual review/reevaluation, placement procedures, and parental collaboration will also be examined. The course takes a particular interest in practices that are culturally and developmentally responsive. Preq: 1. EDUC 280 or EDUC 271 or PSY 215 2. Department Permission Required. The completion of 10 hours of fieldwork with students designated as having special needs is required.

EDUC286 (Not Liberal Arts) Adaptive Technology for Students with Special Needs 3 hrs. 3 crs. This course provides an overview of Assistive Technology (AT) and investigates its practical implementation in inclusive classrooms. Strategies and techniques for designing, developing, and deploying AT are explored to improve the quality of life and independence of learners with disabilities. Students develop and implement plans for assistive technology. They will learn about the traditional and latest AT devices, universal design for learning, curriculum adaptation and integration strategies via AT, and assessment and evaluation protocols. Discussions will include strategies for supporting and sustaining the use and integration of assistive technologies in inclusive classrooms. Preq: Department Permission Required. Coreq: EDUC 285.

EDUC290 (Liberal Arts) Middle Childhood Development in Mathematics 3 hrs. 3 crs. In this course students explore the cognitive and social-emotional development requirements and challenges of students in middle school mathematics classes. Students will analyze current research about the experiences of diverse student populations as they progress through the increasingly complex concepts and skills of middle school mathematics. They will develop strategies to support students' growth mindset, perseverance, and self-confidence as engage in mathematical learning. Students will develop plans for classroom environments where classroom interactions support the success of all students. This course requires 15 hours of fieldwork supporting the mathematical understanding and competencies of middle childhood students. Preq: EDUC 271.

EDUC320 (Not Liberal Arts) \$ Literature and Story-Telling for Children and Adolescents 3 hrs. 3 crs. 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 (Not Liberal Arts) \$ Curriculum and Methods in Elementary Education: Mathematics 3 hrs. 3 crs. 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 will be completed. The focal point of the course is the development of a math unit of instruction, a detailed lesson plan and a portfolio of mathematical activities. Preq: 1. MATH 271 2. EDUC 283 3. Department Permission Required. The completion of 15 hours of fieldwork is required.

EDUC329 (Not Liberal Arts) Curriculum and Methods in Teaching Health Education at the Elementary Level 3 hrs. 3 crs. 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 (Not Liberal Arts) \$ Curriculum and Methods in Teaching Health Education at the Secondary Level 3 hrs. 3 crs. 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.

EDUC340 (Not Liberal Arts) \$ Literacy Instruction Inside Middle and Secondary Schools for English Only (EO) and English Language Learners (ELLs) 3 hrs. 3 crs. 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: 1. EDUC 268 2. EDUC 283 3. Department Permission Required. Special concentration in this course will be planning language and content instruction for English Language Learners (ELLs), and teaching ELLs through the content areas. The completion of 30 hours of fieldwork is required. This is a writing intensive (WI) course.

EDUC341 (Not Liberal Arts) \$ Elementary & Secondary Curriculum and Methods II: Instruction and Classroom Environments in Physical Education PreK-12 4 hrs. 4 crs. Methods of instruction to develop effective physical education programs for PreK, K, elementary and secondary school students. Skills in lesson planning with emphasis on unit plans, class management and safety, evaluation and grading, and integration of special need students. Preq: Admission to the Teacher Education curriculum and methods courses. Departmental permission for non-degree students. Coreq: EDUC 395 Secondary Curriculum & Methods I: Learning Goals and Assessments Across Curriculum. 30 hours of fieldwork is required.

EDUC345 (Not Liberal Arts) Teaching English as a Second Language Through the Content Areas 3 hrs. 2 crs. 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 (Not Liberal Arts) Teaching Reading and Spanish Language Arts in Bilingual Contexts 3 hrs. 3 crs. 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: 1. EDUC 268 2. SPAN 209 3. EDUC283 4. Department Permission Required. The completion of 15 hours of supervised fieldwork is required.

EDUC352 (Not Liberal Arts) \$ Instructional Strategies in Middle and High Schools 3 hrs. 3 crs. 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: 1. EDUC 271 2. EDUC 283 3. Department Permission Required. The completion of 15 hours of supervised fieldwork is required.

EDUC369 (Not Liberal Arts) \$ Early Language & Literacy for English Only and English Language Learners 3 hrs. 3 crs. 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: 1. EDUC 268 2. EDUC 283 3. Department Permission Required. The completion of 15 Hours of fieldwork required. This is a Writing Intensive (WI) Course.

EDUC370 (Not Liberal Arts) \$ Content Literacy 2-6 English Only and English Language Learners (EO & ELLs) 3 hrs. 3 crs. 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 New Language through the content areas for English Language Learners. Preq: 1. EDUC 369 2. Department Permission Required. The completion of 15 hours of fieldwork is required.

EDUC371 (Not Liberal Arts) Secondary Curriculum and Methods II: Instruction and Classroom Environments in Spanish 3 hrs. 3 crs. 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: 1. EDUC 395 2. Department Permission Required. The completion of 30 hours of fieldwork is required.

EDUC373 (Not Liberal Arts) \$ Secondary Curriculum and Methods II: Instruction and Classroom Environments in Mathematics 3 hrs. 3 crs. 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: EDUC 395 Secondary Curriculum & Methods I: Learning Goals and Assessments Across Curriculum. Admission to the Teacher Education curriculum and methods courses. Departmental permission for non-degree students. 30 hours of fieldwork is required.

EDUC375 (Not Liberal Arts) \$ Secondary Curriculum and Methods II: Instruction and Classroom Environments in Biology 3 hrs. 3 crs. 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: EDUC 395 Secondary Curriculum & Methods I: Learning Goals and Assessments Across Curriculum. Admission to the Teacher Education curriculum and methods courses. Departmental permission for non-degree students. 30 hours of fieldwork is required.

EDUC377 (Not Liberal Arts) \$ Secondary Curriculum and Methods II: Instruction and Classroom Environments in Chemistry 3 hrs. 3 crs. 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: EDUC 395 Secondary Curriculum & Methods I: Learning Goals and Assessments Across Curriculum. Admission to the Teacher Education curriculum and methods courses. Departmental permission for non-degree students. 30 hours of fieldwork is required.

EDUC378 (Not Liberal Arts) \$ Advanced Socio-Linguistics: Literacy for K-12 English Language Learners 3 hrs. 3 crs. This course focuses on the examination of the theory, research and practices that affect reading and writing for speakers of English as a Second Language. Based on current theory, practices, and researched-based skills and knowledge about instructional strategies, socio-linguistic and literacy pedagogical practices will be examined, explored and developed for K-12 English Language Learners (ELLs). Preq: EDUC 268, EDUC 369 or EDUC 340; or Department Permission required. Fieldwork required.

EDUC379 (Not Liberal Arts) \$ Teaching Mathematics, Science, and Social Studies to English Language Learners (ELLs) K-12 3 hrs. 3 crs. This course focuses on the examination of the theory, research, and practices that affect math, science and social studies instruction for K-12 English Language Learners (ELLs). It will focus on building teacher background and knowledge of the content needs of ELLs in the math, science and social studies classroom to make these content area subjects accessible to ELLs at all grade levels, K-12. It will also focus on the methods and strategies for teaching math, science and social studies to ELLs, material adaptation, assessment accommodations for teaching ELLs in content classrooms, and the implementation of research-based instructional strategies, interventions and assessment practices aligned to support K-12 ELL in content learning. Preq: EDUC 268, EDUC 369 or EDUC 340; or Department Permission Required. Fieldwork required.

EDUC381 (Liberal Arts) \$ Secondary Curriculum and Methods II: Instruction and Classroom Environments in Earth Science 3 hrs. 3 crs. 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: EDUC 395 Secondary Curriculum & Methods I: Learning Goals and Assessments Across Curriculum. Admission to the Teacher Education curriculum and methods courses. Departmental permission for non-degree students. 30 hours of fieldwork are required.

EDUC390 (Not Liberal Arts) \$ Curriculum and Methods in Elementary Education I: Learning Goals & Assessments 3 hrs. 3 crs. Teacher candidates will build upon their deep and broad academic content knowledge to establish learning goals and create assessment plans appropriate for students in urban elementary schools. Candidates will study elementary level curriculum across disciplines as defined by national and state standards, learning ways to translate that appropriately for diverse urban classrooms. They will explore subject-specific and interdisciplinary approaches to assessment, including reading and writing in the content areas and incorporation of technology for assessment. Candidates will learn how to interpret assessment data. In their planning, candidates will incorporate their understanding of childhood development and urban diversity and plan for inclusion of students with special needs and English Language Learners. Preq: 1.EDUC 283 2. Department Permission Required. The completion of 15 hours of field work is required.

EDUC392 (Not Liberal Arts) \$ Elementary Methods II: Instruction and Classroom Environments 3 hrs. 3 crs. Teacher candidates will build upon their deep and broad academic content knowledge to create learning experiences and environments that will maximize student learning. They will explore subject-specific and interdisciplinary approaches to instruction and develop lesson plans to complete an interdisciplinary unit, incorporating research-based best practices. In their planning, candidates will incorporate their understanding of childhood development and urban diversity and plan for inclusion of students with special needs and English Language Learners. Preq: Admission to the Teacher Education curriculum and methods courses; EDUC 390. The course will require 15 hours of fieldwork.

EDUC395 (Not Liberal Arts) \$ Curriculum and Methods in Subject Specific (K-12) Education I: Learning Goals & Assessments 3 hrs. 3 crs. Teacher candidates will build upon their deep and broad academic establish learning goals and create assessment plans appropriate for students in urban elementary schools. Candidates will study secondary level curriculum within their disciplines as defined by national and state standards, learning ways to translate that appropriately for diverse urban classrooms. They will explore research-based approaches to assessment, including reading and writing in the content areas and incorporation of technology for assessment. Candidates will learn how to interpret assessment data. 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: 1. EDUC 283 2. Department Permission Required. Coreq: 1.EDUC 268. The completion of 30 hours of fieldwork is required.

EDUC397 (Not Liberal Arts) \$ School Health Curricula and Methods (PreK-12) 4 hrs. 4 crs. Methods of instruction to conduct comprehensive health education within a coordinated school health program. Concepts and skills in lesson and unit planning, classroom management, safety, program evaluation, impact on student learning and integration of children with special needs in elementary and secondary school settings will be addressed. Health education concepts and ideas linking choice and behavior to prevention will also be addressed. Sub-disciplines may include child growth and development, family life and sexuality, nutrition and physical activity, chronic illness prevention, decision-making, basic safety, cultural beliefs and practices. Implementing NY State and National Health Education Standards into the curricula. Application of learned

concepts to peer teaching. Preq: 1.EDUC 395 2. Department Permission Required. The completion of 40 hours of fieldwork (20 in the secondary level and 20 in the elementary level) is required.

EDUC398 (Not Liberal Arts) Curriculum and Methods in the Secondary Science Education Classroom II: Science Instruction & Classroom Environments 3 hrs. 3 crs. Teacher candidates will build upon their deep and broad academic content knowledge to create learning experiences and environments that will maximize student learning within their science discipline. They will explore subject-specific and interdisciplinary approaches to instruction and develop lesson plans to complete a unit, incorporating research-based best practices within the discipline. 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: 1.EDUC 395 2. Department Permission Required. The completion of 30 hours of fieldwork is required.

EDUC401 (Not Liberal Arts) Capstone Clinical Experience & Seminar for Childhood Education, Grades 1-3 14 hrs. 4 crs. The Capstone Clinical Experience in grades 1-3 consists of guided observation and supervised teaching in school settings. Teacher candidates are supported through collaboration with college clinical supervisors, who will provide high-quality feedback at regular intervals. Student teachers are assigned cooperating teachers at York College Partner Schools, who have proven to be both highly effective teachers and strong mentors capable of meeting the high expectations of York College. In addition, teacher candidates attend a Senior Seminar that provides extensive practice creating instructional plans and assessments that reflect deep knowledge of both content and pedagogy, applying educational research and theory to instructional planning, understanding the specific needs of a variety of diverse learners including struggling readers, analyzing assessment data, as well as helping teacher candidates articulate their thinking in planning and reflection. Preq: Department permission required. 2 hours lab; 12 hours clinical. Teacher candidates spend five full school days (Monday through Friday, 8:00 am - 3:00 pm; 8:00 am - 12:00 pm on seminar day) in their first placement school for the first seven weeks of the semester and attend the seminar on campus weekly. This course is taught in a 7-week format. In a 7-week format, students' contact hours will average 30 hours per week (4 laboratory; 26 clinical), for a total of 28 laboratory hours and 180 onsite clinical hours.

EDUC402 (Not Liberal Arts) Capstone Clinical Experience & Seminar for Childhood Education, Grades 4-6 14 hrs. 4 crs. The Capstone Clinical Experience in grades 4-6 consists of guided observation and supervised teaching in school settings. Teacher candidates are supported through collaboration with college clinical supervisors who will provide high-quality feedback at regular intervals. Teacher candidates are assigned cooperating teachers at York College Partner Schools, who have proven to be both highly effective teachers and strong mentors capable of meeting the high expectations of York College. In addition, teacher candidates attend a Senior Seminar that provides extensive practice creating instructional plans and assessments that reflect deep knowledge of both content and pedagogy, applying educational research and theory to instructional planning, understanding the specific needs of a variety of diverse learners including struggling readers, analyzing assessment data, as well as helping teacher candidates articulate their thinking in planning and reflection. Preq: Department permission required. 2 hours lab; 12 hours clinical. Teacher candidates spend five full school days (Monday through Friday, 8:00 am - 3:00 pm; 8:00 am - 12:00 pm on seminar day) in their second placement school for the second seven weeks of the semester and attend the seminar on campus weekly. This course is taught in a 7-week format. In a 7-week format,

students' contact hours will average 30 hours per week (4 laboratory, 26 clinical), for a total of 28 laboratory hours and 180 onsite clinical hours.

EDUC403 (Not Liberal Arts) Capstone Clinical Experience & Seminar for Health Education or Physical Education, Grades K-6 14 hrs. 4 crs. The Capstone Clinical Experience for Health Education or Physical Education in grades K-6 consists of guided observation and supervised teaching in school settings. Teacher candidates are supported through collaboration with college clinical supervisors, who will provide high-quality feedback at regular intervals. Student teachers are assigned cooperating teachers at York College Partner Schools, who have proven to be both highly effective teachers and strong mentors capable of meeting the high expectations of York College. In addition, teacher candidates attend a Senior Seminar that provides extensive practice creating instructional plans and assessments that reflect deep knowledge of both content and pedagogy, applying educational research and theory to instructional planning, understanding the specific needs of a variety of diverse learners including struggling readers, analyzing assessment data, as well as helping teacher candidates articulate their thinking in planning and reflection. Student teachers spend four full school days (Monday - Friday 8:00am - 3:00 pm; 8:00 am-12:00 pm on lab day) in their first placement school for seven weeks of the semester and attend the lab on campus weekly. This course is taught in a 7-week format. In a 7-week format, students' contact hours will average 30 hours per week (4 laboratory; 26 clinical), for a total of 28 laboratory hours and 180 onsite clinical hours. Preq: Departmental permission required. 2 hours lab; 12 hours clinical.

EDUC404 (Not Liberal Arts) Capstone Clinical Experience & Seminar for Health Education or Physical Education, Grades 7-12 14 hrs. 4 crs. The Capstone Clinical Experience in Health Education or Physical Education grades 7-12 consists of guided observation and supervised teaching in school settings. Teacher candidates are supported through collaboration with college clinical supervisors who will provide high-quality feedback at regular intervals. Teacher candidates are assigned cooperating teachers at York College Partner Schools, who have proven to be both highly effective teachers and strong mentors capable of meeting the high expectations of York College. In addition, teacher candidates attend a Senior Seminar that provides extensive practice creating instructional plans and assessments that reflect deep knowledge of both content and pedagogy, applying educational research and theory to instructional planning, understanding the specific needs of a variety of diverse learners including struggling readers, analyzing assessment data, as well as helping teacher candidates articulate their thinking in planning and reflection. Teacher candidates spend five full school days (Monday - Friday 8:00am - 3:00 pm; 8:00 am-12:00 pm on lab day) in their second placement school for seven weeks of the semester and attend the lab on campus weekly. This course is taught in a 7-week format. In a 7-week format, students' contact hours will average 30 hours per week (4 laboratory; 26 clinical), for a total of 28 laboratory hours and 180 onsite clinical hours. Preq: Departmental permission required. 2 hours lab; 12 hours clinical.

EDUC405 (Not Liberal Arts) Capstone Clinical Experience & Seminar for Secondary Education, Grades 6-9 14 hrs. 4 crs. The Capstone Clinical Experience in grades 6-9 consists of guided observation and supervised teaching in school settings. Teacher candidates are supported through collaboration with college clinical supervisors, who will provide high-quality feedback at regular intervals. Student teachers are assigned cooperating teachers at York College Partner Schools, who have proven to be both highly effective teachers and strong mentors capable of meeting the high expectations of York College. In addition, teacher candidates attend a Senior Seminar that provides extensive practice creating instructional plans

and assessments that reflect deep knowledge of both content and pedagogy, applying educational research and theory to instructional planning, understanding the specific needs of a variety of diverse learners including struggling readers, analyzing assessment data, as well as helping teacher candidates articulate their thinking in planning and reflection. Student teachers spend five full school days (Monday through Friday, 8:00 AM - 3:00 PM; 8:00 am - 12:00 pm on seminar day) in their first placement school for the first seven weeks of the semester and attend the seminar on campus weekly. Preq: Department permission required. 2 hours lab; 12 hours clinical. This course is taught in a 7-week format. In a 7-week format, students' contact hours will average 30 hours per week (4 laboratory; 26 clinical), for a total of 28 laboratory hours and 180 onsite clinical hours.

EDUC406 (Not Liberal Arts) Capstone Clinical Experience & Seminar for Secondary Education, Grades 10-12 14 hrs. 4 crs. The Capstone Clinical Experience in grades 10-12 consists of guided observation and supervised teaching in school settings. Teacher candidates are supported through collaboration with college clinical supervisors, who will provide high-quality feedback at regular intervals. Student teachers are assigned cooperating teachers at York College Partner Schools, who have proven to be both highly effective teachers and strong mentors capable of meeting the high expectations of York College. In addition, teacher candidates attend a Senior Seminar that provides extensive practice creating instructional plans and assessments that reflect deep knowledge of both content and pedagogy, applying educational research and theory to instructional planning, understanding the specific needs of a variety of diverse learners including struggling readers, analyzing assessment data, as well as helping teacher candidates articulate their thinking in planning and reflection. Student teachers spend five full school days (Monday through Friday, 8:00 AM - 3:00 PM; 8:00 am - 12:00pm on seminar day) in their second placement school for seven weeks of the semester and attend the seminar on campus weekly. Preq: Department permission required. 2 hours lab; 12 hours clinical. This course is taught in a 7 week format. In a 7-week format, students' contact hours will average 30 hours per week (4 laboratory; 26 clinical), for a total of 28 laboratory hours and 180 onsite clinical hours.

EDUC407 (Not Liberal Arts) Capstone Clinical Experience & Seminar for Middle Childhood Education, Grades 5-6 6 hrs. 6 crs. The Capstone Clinical Experience and Seminar for Middle Childhood Education, Grades 5-6. 6 credits; 4 hours seminar; 200 hours onsite clinical experience; 7 weeks. Guided and supervised teaching in school settings. Student teachers spend five full school days (Monday through Friday, 8:00 am - 3:00 pm) in their first placement school for seven weeks of the semester and participate in 4 hours of seminar weekly. Preq: Acceptance into student teaching; Department Permission Required.

EDUC408 (Not Liberal Arts) Capstone Clinical Experience & Seminar for Middle Childhood Education, Grades 7-9 6 hrs. 6 crs. Capstone Clinical Experience and Seminar for Middle Childhood Education, Grades 7-9. 6 credits; 4 hours seminar; 200 hours onsite clinical experience; 7 weeks. Continuation of guided and supervised teaching. Student teachers spend five full school days (Monday through Friday, 8:00 am - 3:00 pm) in their second placement school for seven weeks of the semester and participate in 4 hours of seminar weekly. Preq: EDUC 407.

EDUC416 (Not Liberal Arts) Capstone Clinical Experience & Seminar for Secondary Education, Grades 7-9 6 hrs. 6 crs. The Capstone Clinical Experience and Seminar for Secondary Education, Grades 7-9 consists of guided observation and supervised teaching in school settings. Teacher candidates are supported through collaboration with college clinical supervisors, who will provide high-

quality feedback at regular intervals. Student teachers are assigned cooperating teachers at York College Partner Schools, who have proven to be both highly effective teachers and strong mentors capable of meeting the high expectations of York College. Student teachers spend five full school days (Monday through Friday 8:00 am - 3:00 pm) in their first placement school for the first seven weeks of the semester and attend the seminar on campus weekly. 6 credits; 4 hours seminar; 200 hours onsite clinical experience; 7 weeks. Preq: Department Permission Required.

EDUC417 (Not Liberal Arts) Capstone Clinical Experience & Seminar for Secondary Education, Grades 10-12 6 hrs. 6 crs. The Capstone Clinical Experience and Seminar for Secondary Education, Grades 10-12 consists of guided observation and supervised teaching in school settings. Teacher candidates are supported through collaboration with college clinical supervisors, who will provide high-quality feedback at regular intervals. Student teachers are assigned cooperating teachers at York College Partner Schools, who have proven to be both highly effective teachers and strong mentors capable of meeting the high expectations of York College. Student teachers spend five full school days (Monday through Friday, 8:00 am - 3:00 pm) in their second placement school for the final seven weeks of the semester and attend the seminar on campus weekly. 6 credits; 4 hours seminar; 200 hours onsite clinical experience; 7 weeks. Preq: Grade of B or better in EDUC 416.

EDUC418 (Not Liberal Arts) \$ Supervised Student Teaching, Health Education, Grades K-6 180 clinical hrs. 4 crs. Supervised Student Teaching, Health Education, grades PreK-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 three-hour student teaching seminar enables candidates to examine educational issues that directly impact on their daily classroom experiences. Preq: Admission to Student Teaching. Coreq: EDUC 340. An additional 20 clinical hours beyond the 180 required clinical field hours required will be allocated to coordinated school health programs.

EDUC419 (Not Liberal Arts) \$ Supervised Student Teaching, Health Education, Grades 7-12 180 clinical hrs. 3 crs. 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 three-hour student teaching seminar enables candidates to examine educational issues that directly impact on their daily classroom experiences. Preq: Admission to Student Teaching. An additional 20 clinical hours beyond the 180 required clinical field hours required will be allocated to coordinated school health programs.

EDUC431 (Not Liberal Arts) \$ Supervised Student Teaching, Grades 1-3 3 hrs. 3 crs. 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 three-hour student teaching seminar enables candidates to examine educational issues that directly impact on their daily classroom experiences. Preq: Admission to Student Teaching. 200 clinical field hours required.

EDUC432 (Not Liberal Arts) \$ Supervised Student Teaching, Grades 4-6 3 hrs. 3 crs. 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 three-hour weekly student teaching seminar enables candidates to examine educational issues that directly impact on their daily classroom experiences. Preq: Admission to Student Teaching. 200 clinical field hours required.

EDUC440 (Not Liberal Arts) \$ Supervised Student Teaching, Mathematics, Grades 7-9 3 hrs. 3 crs. Supervised Student Teaching, Mathematics, grades 7-9 is guided observation and supervised teaching in school settings. The teacher candidate is given extensive experience in planning, teaching, assessing and adapting activities to meet the diverse needs of learners. Candidates are supported through collaboration with college supervisors, cooperating teachers, and other school support personnel. Mandatory participation in a three-hour weekly student teaching seminar enables candidates to examine educational issues that directly impact on their daily classroom experiences. Preq: Admission to Student Teaching. 200 clinical field hours required.

EDUC441 (Not Liberal Arts) \$ Supervised Student Teaching, Mathematics, Grades 10-12 3 hrs. 3 crs. Supervised Student Teaching, Mathematics, grades 10-12 is guided and supervised teaching in school settings. The teacher candidate is given extensive experience in planning, teaching, assessing and adapting activities to meet the diverse needs of learners. Candidates are supported through collaboration with college supervisors, cooperating teachers, and other school support personnel. Mandatory participation in a weekly three-hour student teaching seminar enables candidates to examine educational issues that directly impact on their daily classroom experiences. Preq: Admission to Student Teaching. 200 clinical field hours required.

EDUC442 (Not Liberal Arts) \$ Supervised Student Teaching, Biology, Grades 7-9 3 hrs. 3 crs. 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 three-hour student teaching seminar enables candidates to examine educational issues that directly impact on their daily classroom experiences. 200 clinical field hours required.

EDUC443 (Not Liberal Arts) \$ Supervised Student Teaching, Biology, Grades 10-12 3 hrs. 3 crs. 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 three-hour weekly student teaching seminar enables candidates to examine educational issues that directly impact on their daily classroom experiences. 200 clinical field hours required.

EDUC444 (Not Liberal Arts) \$ Supervised Student Teaching, Chemistry, Grades 7-9 3 hrs. 3 crs. 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 three-hour weekly student teaching seminar enables candidates to examine educational issues that directly impact on their daily classroom experiences. 200 clinical field hours required.

EDUC445 (Not Liberal Arts) \$ Supervised Student Teaching, Chemistry, Grades 10-12 3 hrs. 3 crs. 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 three-hour weekly student teaching seminar enables candidates to examine educational issues that directly impact on their daily classroom experiences. 200 clinical field hours required.

EDUC446 (Not Liberal Arts) \$ Supervised Student Teaching, Earth Science, Grades 7-9 3 hrs. 3 crs. 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 three hour weekly student teaching seminar enables candidates to examine educational issues that directly impact on their daily classroom experiences. 200 clinical field hours required.

EDUC447 (Not Liberal Arts) \$ Supervised Student Teaching, Earth Science, Grades 10-12 3 hrs. 3 crs. 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 three-hour weekly student teaching seminar enables candidates to examine educational issues that directly impact on their daily classroom experiences. 200 clinical field hours required.

EDUC448 (Not Liberal Arts) \$ Supervised Student Teaching, Physical Education, Grades PreK-6 180 clinical hrs. 3 crs. 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 three-hour weekly student teaching seminar enables candidates to examine educational issues that directly impact on their daily classroom experiences. An additional 20 clinical hours beyond the 180 required clinical field hours will be allocated to alternative Physical Education experiences.

EDUC449 (Not Liberal Arts) \$ Supervised Student Teaching, Physical Education, Grades 7-12 180 clinical hrs. 3 crs. 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 three hour weekly student teaching seminar enables candidates to examine educational issues that directly impact on their daily classroom experiences. An additional 20 clinical hours beyond the 180 required clinical field hours will be allocated to alternative Physical Education experiences.

EDUC458 (Not Liberal Arts) \$ Supervised Student Teaching, Spanish, Grades 7-9 3 hrs. 3 crs. 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. Preq: Admission to Student Teaching. Mandatory participation in a three hour weekly student teaching seminar enables candidates to examine educational issues that directly impact on their daily classroom experiences. 200 clinical field hours required.

EDUC459 (Not Liberal Arts) \$ Supervised Student Teaching, Spanish, Grades 10-12 3 hrs. 3 crs. 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 three-hour weekly student teaching seminar enables candidates to examine educational issues that directly impact on their daily classroom experiences. 200 clinical field hours required.

Environmental Health Science

EHS110 (Liberal Arts) Science Technology and Environment 3 hrs. 3 crs. 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 open to the students with credit in HPEH 110. [Flexible Core: Scientific World]

EHS140 (Liberal Arts) \$ Introduction to Environmental Sciences 4 hrs. 3 crs. 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. Not open to students with credit in HPEH 140. 2 hours lecture, 2 hours laboratory. [Required Core: Life and Physical Sciences]

EHS211 (Liberal Arts) Principles of Environmental Health Science 2 hrs. 2 crs. Principles of engineering and science used in the control of the human environment, water supply and treatment, sewage and waste water treatment, water collection and disposal, air pollution, industrial hygiene, noise and illumination, radiological health principles, housing, food, milk and sanitation. Preq: EHS 140 and CHEM 108 and CHEM 109; or Department permission required. Coreq: EHS 140 and CHEM 108 and CHEM 109; or Department permission required. Not open to the students with credit in HPEH 212 and HPEH 321 or HPEH 322.

EHS212 (Liberal Arts) \$ Principles of Environmental Health Sciences in Laboratory 4 hrs. 2 crs. Laboratory practices in Environmental Health Science; introduction to sampling, monitoring

and analysis of air and water pollution, risk assessment, and solid waste management, toxicity studies. Coreq: EHS 211. Not open to the students with credit in HPGC 212 and HPEH 321 or HPEH 322.

EHS340 (Not Liberal Arts) Pollution Control Technology 3 hrs. 3 crs. 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 113, PHYS 115 or PHYS 117, EHS 211, EHS 212. Not open to the students with credit in HPEH 340.

EHS343 (Not Liberal Arts) Environmental Physiology 3 hrs. 3 crs. 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: EHS 211, EHS 212. Not open to the students with credit in HPEH 343.

EHS351 (Not Liberal Arts) Fundamentals of Air Pollution 3 hrs. 3 crs. 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. Coreq: CHEM 230. Not open to the students with credit in HPEH 351.

EHS420 (Not Liberal Arts) Water Quality Analysis and Management 6 hrs. 4 crs. 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: EHS 340. 2 hours lecture, 4 laboratory hours. Not open to the students with credit in HPEH 420. This is a Writing Intensive course.

EHS424 (Not Liberal Arts) Food Sanitation 3 hrs. 3 crs. The sanitation of food production, processing and distribution; physical, chemical and biological aspects of sanitation; food packaging control, food additives, adulteration and misbranding. Preq: EHS 211, EHS 212, BIO 265, CHEM 230. Not open to the students with credit in HPEH 424.

EHS425 (Not Liberal Arts) Disease Vector Control 3 hrs. 3 crs. 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: EHS 211, EHS 212. Field trips to community vector control programs. Not offered on a regular basis. Availability to be determined by the department. Not open to the students with credit in HPEH 425.

EHS426 (Not Liberal Arts) Solid Waste Management 3 hrs. 3 crs. 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: EHS 211, EHS 212, CHEM 230; or Department permission required. Field trips stress the practical application of classroom lectures. Not open to the students with credit in HPEH 426.

EHS427 (Not Liberal Arts) Industrial Hygiene 3 hrs. 3 crs. 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: EHS 211, EHS 212, CHEM 237. Not open to the students with credit in HPEH 427.

EHS428 (Not Liberal Arts) Water Pollution Biology 3 hrs. 3 crs. 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: EHS 340. Not open to the students with credit in HPEH 428.

EHS429 (Not Liberal Arts) Environmental Management 3 hrs. 3 crs. 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: EHS 211 and EHS 212; or Department permission required. Not open to the students with credit in HPEH 429.

EHS430 (Not Liberal Arts) Field Study in Environmental Health Science 20 hrs. 3 crs. Internship with affiliated agencies involved with the field of Environmental Health Sciences; in depth, supervised training in technical aspects of ecological, public, industrial, and hospital health demonstrate the broad scope of environmental health and provides valuable work experience. Preq: EHS 340 and Department permission required. Not open to the students with credit in HPEH 430.

EHS431 (Liberal Arts) Contaminant Hydrology 6 hrs. 4.5 crs. The occurrence and movement of water on and beneath the earth's surface. Discussion of the basic principles of the hydrologic cycle as well as environmentally relevant applications based on the recent case studies. Exposure to modern techniques (laboratory and field) and contaminant migration software to study the water related current environmental issues including fate and transport of environmental contaminants, environmental remedy and sustainable managements. Preq: EHS 211 and EHS 212 and Math 121; or Department permission required. Coreq: EHS 211 and EHS 212 and Math 121; or Department permission required. 3 hrs lecture and 3 hrs laboratory.

EHS432 (Liberal Arts) Application of GIS in Environmental Health Science 6 hrs. 4 crs. Basic principles and potential benefits of Geographical Information System(GIS) in environmental health sciences. Application of GIS to understand the complex spatio-temporal relationships between environmental pollution and disease and identifying exposures to environmental hazards in high-risk populations for an effective environmental and public health management program. Explanation of disease patterns in terms of relationships with social, institutional, technological, and natural environments using GIS analysis. Preq: EHS 211 and EHS 212 and Math 121; or Department permission required. Coreq: EHS 211 and EHS 212 and Math 121; or Department permission required. 2 hrs lecture and 4 hrs laboratory.

EHS433 (Liberal Arts) Environmental Health and Safety Regulations 3 hrs. 3 crs. Fundamental understanding of the environmental sciences, politics, industries, and regulations that influence the way governments, agencies, and private organizations conduct planning and resource management. Investigation of the latest trends in renewable energy, ecosystems management, the impact of urbanization and industrialization on the environment, economics and resource availability, regulation and law, environmental ethics, landscape-level conservation, political ecology, and environmental technology and management. Preq: EHS 211 and EHS 212 and Math 121; or Department permission required. Coreq: EHS 211 and EHS 212 and Math 121; or Department permission required. 3 hrs lecture.

EHS498 (Not Liberal Arts) Independent Study 6 hrs. 3 crs. Individually guided study of an advanced topic in Environmental Health Science. A formal report on topic and/or poster/oral presentation on the topic in internal/ external symposium is required. Preq: Departmental permission required. Department permission

required. Not open to students with a combined total of 12 credits in Independent Study in the Earth and Physical Sciences. PASS/FAIL after 6 credits of Independent Study in Earth and Physical Sciences have been completed. A student may register for only one independent study course in Earth and Physical Sciences per semester, intersession or summer session. Hours arranged. Minimum 6 hours per week. Not open to the students with credit in HPEH 498.

EHS499 (Not Liberal Arts) Independent Study 6 hrs. 3 crs. Individually guided study of an advanced topic in Environmental Health Science. A formal report on topic and/or poster/oral presentation on the topic in internal/ external symposium is required. Preq: Department permission required. Department permission required. Not open to students with a combined total of 12 credits in Independent Study in the Earth and Physical Sciences. PASS/FAIL after 6 credits of Independent Study in Earth and Physical Sciences have been completed. A student may register for only one independent study course in Earth and Physical Sciences per semester, intersession or summer session. Hours arranged. Minimum 6 hours per week. Not open to the students with credit in HPEH 499.

English

ENG125 (Liberal Arts) Composition I: Introduction to College Writing 1 conference hr. + 3 hrs. 3 crs. This course introduces students to academic reading and writing practices and strategies through close reading, textual analysis, writing, and revision. Focusing primarily on expository, analytical, and academic texts, students develop their critical thinking skills and are introduced to the fundamentals of college-level research. Students will spend one hour per week in conferences, collaborative learning activities, or peer review. Preq: By placement examination. [Required Core: English Composition]

ENG125 (Liberal Arts) Composition I: Introduction to College Writing 1 conference hr. + 3 hrs. 3 crs. This course introduces students to academic reading and writing practices and strategies through close reading, textual analysis, writing, and revision. Focusing primarily on expository, analytical, and academic texts, students develop their critical thinking skills and are introduced to the fundamentals of college-level research. Students will spend one hour per week in conferences, collaborative learning activities, or peer review. Preq: By placement examination. This course may be offered as an online course. [Required Core: English Composition]

ENG126 (Liberal Arts) Composition II: Writing About Literature 1 conference hr + 3 hrs. 3 crs. A composition course which takes literature as its subject matter, ENG 126 builds on the competencies developed in ENG 125, in close reading, argumentation, and writing from sources, and applies them in a new context. Students read a variety of short literary works including poetry, fiction, and/or drama, and practice responding to them in class, and writing about them both informally and formally. Students also produce a research paper related to themes or questions evoked by the literature. Students will spend one hour per week in conferences, collaborative learning activities, or peer review. Preq: ENG 125. This course may be offered as an online course. [Required Core: English Composition]

ENG126 (Liberal Arts) Composition II: Writing About Literature 3 hrs + 1 hr. conference. hrs. 3 crs. A composition course which takes literature as its subject matter, ENG 126 builds on the competencies developed in ENG 125, in close reading, argumentation, and writing from sources, and applies them in a new context. Students read a variety of short literary works including poetry, fiction, and/or drama, and practice responding to them in class, and writing about them both informally and formally. Students also produce a research

paper related to themes or questions evoked by the literature. Students will spend one hour per week in conferences, collaborative learning activities, or peer review. Preq: ENG 125. This course may be offered as an online course. [Required Core: English Composition]

ENG200 (Liberal Arts) Understanding Literature 3 hrs. 3 crs. 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 literature genres. Preq: ENG 125. This course may be offered in either hybrid or face-to-face format. [Flexible Core: World Cultures and Global Issues]

ENG202 (Liberal Arts) Introduction to Literary Studies 3 hrs. 3 crs. Students will read closely and critically, applying a variety of critical approaches to literary works to explore how their meanings shift from these different perspectives. Preq: ENG 125. Coreq: ENG 126 or ENG 200.

ENG208 (Liberal Arts) Understanding Drama 3 hrs. 3 crs. An introduction to reading and viewing plays, designed to develop the students' interpretive skills and appreciation of the literature of the theatre. Preq: ENG 125. Coreq: ENG 126 or ENG 200.

ENG209 (Liberal Arts) Understanding Poetry 3 hrs. 3 crs. An introduction to the close reading of a variety of poems, designed to develop students' interpretive skills and appreciation of poetry. Preq: ENG 125. Coreq: ENG 126 or ENG 200.

ENG211 (Liberal Arts) Foundations of Western Literature 3 hrs. 3 crs. Selected texts from the biblical, classical, and medieval periods. Preq: ENG 125. Coreq: ENG 126 or ENG 200. Not open to students with credit in ENG 310.

ENG220 (Liberal Arts) The English Tradition I 3 hrs. 3 crs. Major English authors from the Middle Ages through the 18th century. Preq: ENG 125. Coreq: ENG 126 or ENG 200.

ENG230 (Liberal Arts) The English Tradition II 3 hrs. 3 crs. Major British literature of the 19th and 20th centuries. Preq: ENG 125. Coreq: ENG 126 or ENG 200.

ENG240 (Liberal Arts) Literary Traditions in the U.S. 3 hrs. 3 crs. Students will analyze such major themes of U.S. literature as race and resistance, social class division and mobility, the power of the rhetorical arts, and gender and sexuality. Preq: ENG 125. Coreq: ENG 126. [Flexible Core: U.S. Experience in its Diversity]

ENG262 (Liberal Arts) Introduction to Writing, Rhetoric and Language 3 hrs. 3 crs. This course introduces students to the study of writing and rhetoric, using rhetorical concepts as frameworks for students' own writing and their analyses and interpretations of the writing of others. The course also provides foundational tools for understanding language studies and how they intersect with rhetoric and writing. Preq: ENG 125. Coreq: ENG 126 or ENG 200.

ENG265 (Liberal Arts) Advanced Composition 3 hrs. 3 crs. Guided practice in the development of advanced writing skills, building on first-year composition, on writing courses in academic disciplines, and on students' personal interests and literacy experiences. Students will write in a variety of non-fiction genres and registers, gaining increased proficiency as writers in multiple rhetorical situations. Preq: ENG 126. This is a Writing Intensive course. This course may be offered in a face-to-face or a hybrid format.

ENG265 (Liberal Arts) Advanced Composition 3 hrs. 3 crs. Guided practice in the development of advanced writing skills, building on first-year composition, on writing courses in academic disciplines, and on students' personal interests and literacy experiences. Students will write in a variety of non-fiction genres and registers, gaining increased proficiency as a writer in multiple rhetorical situations. Preq: ENG 126. This is a Writing Intensive course. This course may be offered in a face-to-face or a hybrid format.

ENG270 (Liberal Arts) Introduction to English Grammar and Syntax 3 hrs. 3 crs. 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. Not open to students with credit for ENG 370. This is a Writing Intensive course. This course may be offered in either online, hybrid, or face-to-face format.

ENG272 (Liberal Arts) World Englishes 3 hrs. 3 crs. An introduction to English as it is spoken and written world-wide. With an emphasis on the impact of colonization, this course explores the linguistics and literature of English as a global language. Preq: ENG 125. This is a Writing Intensive course. This course may be offered in a face-to-face or hybrid format. [Flexible Core - World Cultures and Global Issues]

ENG272 (Liberal Arts) World Englishes 3 hrs. 3 crs. An introduction to English as it is spoken and written world-wide. With an emphasis on the impact of colonization, this course explores the linguistics and literature of English as a global language. Preq: ENG 125. This is a Writing Intensive course. This course may be offered in a face-to-face or hybrid format. [Flexible Core: World Cultures and Global Issues]

ENG275 (Liberal Arts) Theories and Practices of Tutoring 3 hrs. 3 crs. English 275 is a course in which students will study and reflect upon theories of peer tutoring, as well as their own tutoring and learning practices. The course will have three major components that are intertwined: theory, practice, and reflection. Preq: ENG 126 or ENG 200

ENG279 (Liberal Arts) Special Topics in Writing, Rhetoric and Language 3 hrs. 3 crs. This course explores selected topics in Writing, Rhetoric or Language studies. The topic varies with each offering. This course may be repeated for no more than 6 credits if different topics are studied. Preq: ENG 126 or ENG 200. This is a Writing Intensive course.

ENG286 (Liberal Arts) Introduction to Creative Writing 3 hrs. 3 crs. The basics of writing imaginative, technically correct short stories and poems. Preq: ENG 125. This is a Writing Intensive course. This course may be offered in a face-to-face or hybrid format. [Flexible Core: Creative Expression]

ENG290 (Liberal Arts) Fiction Into Film 3 hrs. 3 crs. Close reading and analysis of works of fiction and their film adaptations. Preq: ENG 126 or ENG 200. This is a Writing Intensive course.

ENG295 (Liberal Arts) Technologies of Reading 3 hrs. 3 crs. This course introduces students to the field of Digital Humanities (DH) and the wide range of tools available for the study of written texts. Through a variety of projects such as blogging, mapping, and distant reading, students explore what old and new technologies can do to shape and modify the ways we read and write texts. Preq: ENG 125. This is a writing intensive course: students are required to write 10-12 pages of work including blogs, reflections, and project proposals. This is a Writing Intensive course. This course may be offered in a hybrid or face-to-face format. [Flexible Core: Creative Expression]

ENG297 (Liberal Arts) Language, Technology, and Society 3 hrs. 3 crs. This course engages with the history of language technology and its functions and effects, from the invention of writing through various pre-modern technologies to the Internet era and present day. Major topics include the invention of writing and comparison of writing systems, writing as a cultural and social practice through history, the printing press and the effects of widespread literacy, and the use of machines and early computers to speak, listen, and understand. The final section of the course focuses on the proliferation of electronic forms of language technology and the

functions these serve in modern society, as well as the changes such technologies might produce in modern language. Preq: ENG 125. This is a Writing Intensive course.

ENG298 (Liberal Arts) Special Topics in Literature 3 hrs. 3 crs. A selected topic in English studies. This course may be repeated for no more than 6 credits if different topics are studied. The topic varies with each offering. Preq: ENG 125. Coreq: ENG 126 or ENG 200. This is a Writing Intensive course. This course may be offered in an online hybrid or face-to-face format.

ENG301 (Liberal Arts) The Old Testament 3 hrs. 3 crs. 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 126 or ENG 200.

ENG302 (Liberal Arts) The New Testament and the Apocrypha 3 hrs. 3 crs. 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 126 or ENG 200.

ENG311 (Liberal Arts) Critical Studies in English 3 hrs. 3 crs. A variety of theoretical approaches and methodologies applied to the critical study of texts, including, but not limited to poetry, fiction, essays and film. Preq: ENG 202.

ENG312 (Liberal Arts) Advanced Topics in Critical Theory 3 hrs. 3 crs. This course explores the discourse and debates central to a specific area of critical theory with the goal of enriching the ways in which students analyze texts. The critical readings offer a lens through which to interpret literary texts, films, and culture. Preq: ENG 202; ENG 311.

ENG318 (Liberal Arts) Shakespeare: The Major Works 3 hrs. 3 crs. Selected reading of the major plays and poems. Preq: ENG 126 or ENG 200.

ENG328 (Liberal Arts) Medieval and Renaissance Literature 3 hrs. 3 crs. Prose, poetry and drama of the Middle Ages and the English Renaissance, including such major figures as Chaucer, Shakespeare, Donne and Milton. Preq: ENG 126 or ENG 200.

ENG333 (Liberal Arts) Restoration and Eighteenth-Century Literature 3 hrs. 3 crs. Prose, poetry and drama from 1660 through the 18th century, including such major figures as Congreve, Swift, Pope, Fielding and Johnson. Preq: ENG 126 or ENG 200.

ENG343 (Liberal Arts) The Romantic Period in England 3 hrs. 3 crs. 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 126 or ENG 200.

ENG344 (Liberal Arts) Victorian Literature 3 hrs. 3 crs. 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 126 or ENG 200.

ENG345 (Liberal Arts) Twentieth-Century British Literature 3 hrs. 3 crs. Major authors and movements in British Literature of the 20th century. Preq: ENG 126 or ENG 200.

ENG350 (Liberal Arts) American Voices and Visions I 3 hrs. 3 crs. Literature of America from the Colonial Period through the Civil War. Preq: ENG 126 or ENG 200.

ENG351 (Liberal Arts) American Romanticism 3 hrs. 3 crs. 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 126 or ENG 200.

ENG352 (Liberal Arts) American Voices and Visions II 3 hrs. 3 crs. Literature of America from the Post Civil War Period through World War II. Preq: ENG 126 or ENG 200.

ENG353 (Liberal Arts) Nineteenth-Century American Literature 3 hrs. 3 crs. 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 126 or ENG 200.

ENG355 (Liberal Arts) Twentieth-Century American Literature 3 hrs. 3 crs. Major 20th century American authors and poets, their historical, social and cultural contexts. Preq: ENG 126 or ENG 200.

ENG356 (Liberal Arts) Studies in a Literary Genre or Movement 3 hrs. 3 crs. 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 postmodernism. Preq: ENG 126 or 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 crs. 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 126 or ENG 200.

ENG358 (Liberal Arts) Major Authors 3 hrs. 3 crs. Focuses in depth on the work of one or two authors. The topic varies with each offering. Preq: ENG 126 or ENG 200. This course can be taken a maximum of two times by any one student.

ENG362 (Liberal Arts) Rhetorical Theory and Criticism 3 hrs. 3 crs. Introduction to theory, criticism, and practice of rhetoric, ranging from classical practitioners of the art of persuasion to modern and post-modern theorists, including comparative rhetorics. Analysis and critique of texts, films, and other media help students understand how rhetoric influences people's perceptions of themselves and others, their relationships to local and global communities, and their interactions with the material world. Preq: ENG 262.

ENG364 (Liberal Arts) The Tragic Vision 3 hrs. 3 crs. Selected readings in tragedy from ancients to moderns; emphasis on 20th century. Preq: ENG 126 or ENG 200.

ENG365 (Liberal Arts) The Comic Vision 3 hrs. 3 crs. Selected readings in comedy from ancients to moderns; emphasis on 20th century. Preq: ENG 126 or ENG 200.

ENG369 (Liberal Arts) Critical Literacy Studies 3 hrs. 3 crs. Introduces students to theories of critical literacy; explores what has historically counted as literacy and why. Readings examine intersections of writing and reading practices with identity, citizenship, education systems, and other social contexts. Preq: ENG 126 or ENG 200. Coreq: ENG 126 or ENG 200.

ENG370 (Liberal Arts) Advanced English Grammar and Style 3 hrs. 3 crs. Grammar and punctuation; sentence and discourse patterns; aspects of usage and style illustrated and practiced. Preq: ENG 126 or ENG 200.

ENG371 (Liberal Arts) History of the English Language 3 hrs. 3 crs. 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 126 or ENG 200.

ENG373 (Liberal Arts) Writing for Business 3 hrs. 3 crs. 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: ENG 126 or WRIT 301 or WRIT 302 or WRIT 303. This is a Writing Intensive course. This course may be offered as an online course.

ENG375 (Liberal Arts) English Sociolinguistics 3 hrs. 3 crs. 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 126 or ENG 200.

ENG377 (Liberal Arts) Literature, Media, and the Digital Humanities 3 hrs. 3 crs. Literature, history, and critical theory covering the analogue to digital technology evolution. Preq: ENG 295.

ENG379 (Liberal Arts) Special Topics in Writing, Rhetoric and Language 3 hrs. 3 crs. A selected topic in English writing, rhetoric or language studies. The topic varies with each offering. Preq: ENG 126 or ENG 200. Coreq: ENG 126 or ENG 200. This course can be taken a maximum of two times by any one student.

ENG384 (Liberal Arts) Writing for Electronic Media 3 hrs. 3 crs. Study of writing in such electronic media as blogs, websites, and other content management systems. Preq: ENG 126, or ENG 200, or WRIT 301, or WRIT 302, or WRIT 303, or WRIT 304. This is a Writing Intensive course. This course may be offered in a face-to-face or hybrid format.

ENG386 (Liberal Arts) Poetry Workshop 3 hrs. 3 crs. An advanced workshop for poetry students aiming at publication and public readings. Preq: ENG 286.

ENG387 (Liberal Arts) Short Story Workshop 3 hrs. 3 crs. An advanced workshop for short story and novel writers aiming at publication. Preq: ENG 286.

ENG388 (Liberal Arts) Playwriting Workshop 3 hrs. 3 crs. 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.

ENG389 (Liberal Arts) Creative Nonfiction Workshop 3 hrs. 3 crs. An advanced workshop for creative nonfiction writers aiming at publication. Preq: ENG 286. Coreq: ENG 286.

ENG390 (Liberal Arts) Caribbean Literatures in English 3 hrs. 3 crs. 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 126 or ENG 200.

ENG391 (Liberal Arts) Topics in Global Literatures 3 hrs. 3 crs. This course explores special topics in literature by writers from cultures originating in places outside the US and Great Britain. Preq: ENG 126 or ENG 200. The topic varies with each offering. This course can be taken a maximum of two times by any one student.

ENG392 (Liberal Arts) African-American Literature 3 hrs. 3 crs. Poetry, prose and drama of African-American writers. Preq: ENG 126 or ENG 200.

ENG393 (Liberal Arts) Food: Literary and Rhetorical Explorations 3 hrs. 3 crs. This course explores how food production and consumption has been represented in both literary and nonfiction texts. It examines how language about food in novels, poems, essays, art, and nonfiction both shapes and reflects human attitudes toward food as an economic asset, a cultural symbol, an environmental issue, a health concern, a social activity, and a political concern. Preq: ENG 126 or ENG 200. This is a Writing Intensive course.

ENG394 (Liberal Arts) Writing of Diasporas 3 hrs. 3 crs. This course explores writing produced by authors in Diasporic contexts. The assigned readings and films examine intersections between Diasporic identities and issues related to postcolonialism, imperialism, migration, globalization, nationalism, citizenship, and assimilation. Preq: ENG 202 or ENG 200. This course is cross-listed with WLIT 394. Not open to students with credit in WLIT 330 or WLIT 394.

ENG395 (Liberal Arts) Women Writers 3 hrs. 3 crs. 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 126 or ENG 200.

ENG396 (Liberal Arts) Global Women Writers 3 hrs. 3 crs. An examination of works by women writers across the world. The course will assess the significance and role of the writings as part of national and women's literatures, exploring questions of identity formation and/or disintegration, gender, social status, and ethnicity. Preq: ENG 126 or ENG 200. This course is cross-listed with WLIT 396. Not open to students in WLIT 396.

ENG399 (Liberal Arts) Special Topics in English 3 hrs. 3 crs. A selected topic in English studies. Preq: ENG 126 or ENG 200. The topic varies with each offering. This course may be repeated for no more than 6 credits if different topics are studied.

ENG410 (Liberal Arts) Seminar in English: Special Topics 3 hrs. 3 crs. A special topic in English. Preq: WRIT 301, 302, 303 or 304; twenty-four credits in the English major; senior status; and departmental permission. The topic varies with each offering. This course may be repeated for no more than 6 credits if different topics are studied. This is a Writing Intensive course.

ENG430 (Liberal Arts) Seminar in Literature 3 hrs. 3 crs. A special topic in Literature. The topic varies with each offering. Preq: WRIT 301, 302, 303 or 304; twenty-four credits in the English major; senior status; and departmental permission. This course may be repeated for no more than 6 credits if different topics are studied. This is a Writing Intensive course.

ENG470 (Liberal Arts) Seminar in Writing, Rhetoric and Language 3 hrs. 3 crs. A special topic in Writing, Rhetoric and Language. The topic varies with each offering. Preq: WRIT 301, 302, 303 or 304; twenty-four credits in the English major; senior status; and departmental permission. This course may be repeated for no more than 6 credits if different topics are studied. This is a Writing Intensive course.

ENG490 (Liberal Arts) Senior Research in English 3 hrs. 3 crs. Intensive individually guided advanced research in English or American language and literature. Preq: Instructor permission required. Open to Seniors Only.

ENG492 (Liberal Arts) Honors Research in English TBA hrs. 3 crs. 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; or ENG 202 and ENG 262; WRIT 301 or WRIT 302 or WRIT 303 or WRIT 304; 21 credits in the English major and departmental permission. Hours arranged. Completion of a substantial piece of supervised individual research for honors in English.

ENG493 (Liberal Arts) Honors Research in English TBA hrs. 3 crs. A two semester sequence open only to students with a GPA 3.0 or higher in the major. Preq: ENG 209 and ENG 211; or ENG 202 and ENG 262; WRIT 301 or WRIT 302 or WRIT 303 or WRIT 304; 21 credits in the English major; and departmental permission. Hours arranged. Completion of a substantial piece of supervised individual research for honors in English.

ENG495 (Liberal Arts) Independent Study in Professional or Creative Writing TBA hrs. 3 crs. 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 TBA hrs. 3 crs. 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 TBA hrs. 3 crs. 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 TBA hrs. 3 crs. 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 crs. 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. This course may be repeated once if a low score is obtained on the CAT-R.

ESL150 (Liberal Arts) Academic Reading and Writing for Non-Native Speakers II. 6 hrs. 2 crs. 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. Preq: ESL 145 or placement. ESL 150 will also prepare students to take the CUNY Skills test. This course may be repeated once if the CAT-R and CAT-W tests are not passed.

Art

FA101 (Liberal Arts) Visual Elements: 2-Dimensional 4 hrs. 3 crs. An active discourse and research of contemporary and historical artists in relation to the principles and elements of design and the materials used in two-dimensional art making. Students analyze and discuss historical and contemporary design practices and theory. Through hands on problem-solving projects, students explore and develop their own unique expression during the four hour studio course. [Flexible Core: Creative Expression]

FA102 (Liberal Arts) Visual Elements: 3-Dimensional 4 hrs. 3 crs. An active discourse and research of contemporary and historical artists in relation to the principles and elements of three-dimensional art making. Students analyze and discuss historical and contemporary 3D design tools, methods and materials. Through hands on problem-solving projects, students engage in inventive use of these materials; emphasis is given to the development of individual design during the four hour studio course. [Flexible Core: Creative Expression]

FA103 (Liberal Arts) Foundations of Photography 3 hrs. 3 crs. This course will introduce the student to the Foundations of Photography. Students will learn about different camera techniques

and formats, darkroom and digital manipulation, alternative photographic practices and the visual vocabulary of photography. In this class we will learn a variety of techniques and strategies, and discuss how the medium has and will continue to change.

FA105 (Liberal Arts) Introduction to Fine Arts: Caves to Cathedrals 3 hrs. 3 crs. 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. This course will cover Western and non-Western art from its beginnings in the Prehistoric era to the Middle Ages. Not open to students with credit in FA 104. [Flexible Core: World Cultures and Global Issues]

FA106 (Liberal Arts) Introduction to Fine Arts: Cathedrals to Contemporary 3 hrs. 3 crs. An introduction to art in the visual environment and the theories concerning its creation; development of an understanding of past and present creative processes; introduction to art criticism. This course will cover Western and, to a lesser extent, non-Western art from the Renaissance to Contemporary periods. This course may be offered in a face-to-face or asynchronous online format. [Flexible Core: World Cultures and Global Issues]

FA150 (Liberal Arts) \$ Visual Design: Two Dimensional 4 hrs. 3 crs. 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 crs. 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 crs. 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 crs. 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 crs. 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 crs. 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 crs. 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 crs. Techniques of painting in various mediums.

FA265 (Liberal Arts) \$ Painting II 4 hrs. 3 crs. Techniques of painting in various mediums. Preq: FA 264.

FA273 (Liberal Arts) \$ Sculpture I 4 hrs. 3 crs. 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 crs. 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.

FA278 (Liberal Arts) The Art and Sound of Video Games 3 hrs. 3 crs. A relatively new form of media in cultural history, video games are actively played by hundreds of millions of people in the United States alone. This interdisciplinary course focuses on the visual aesthetic and sound design of video games. Throughout the semester, we will apply methods of critical analysis to unpack what creates a "successful" video game (and what does not). We will do so both chronologically and thematically, studying the history of the medium, and by analyzing how it relates to other forms of culture such as film, art and music. This course is cross-listed with MUS 278.

FA283 (Liberal Arts) \$ Visual Communication Media I 4 hrs. 3 crs. 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 crs. 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. Coreq: Any 3 credit Fine Arts Studio course.

FA287 (Liberal Arts) Islamic Art and Architecture 3 hrs. 3 crs. Examines the development of art and architecture in areas dominated by Islam. The connection of Islamic art with its religious, historical and cultural contexts is explored through a variety of topics and media.

FA288 (Liberal Arts) Art of Asia and the Pacific 3 hrs. 3 crs. This course is a survey of the art of Asia and the Pacific islands as an interrelated cultural region. The course's main focuses will be the art of India and the Himalayas, East Asia (China, Korea, Japan), Southeast Asia (Thailand, Cambodia, Vietnam, Indonesia etc.) and selected groups in the Pacific islands from New Guinea to Easter Island.

FA289 (Liberal Arts) Caribbean Art 3 hrs. 3 crs. This course is a broad survey of Caribbean art from an aesthetic, social and historical viewpoint. The course will investigate and analyze modes of production, visual and other aesthetics, and societal roles of art and artists from the Caribbean, beginning in the pre-Columbian period and ending in modern times. Unique and regional approaches to art-making will be explored within a wider survey of visual culture in the Caribbean Basin area.

FA290 (Liberal Arts) Ancient Art 3 hrs. 3 crs. Ancient architecture, sculpture, and painting from prehistoric to Roman times. Preq: FA105 or FA106

FA291 (Liberal Arts) Art of Medieval Europe 3 hrs. 3 crs. Architecture, sculpture, and painting from early Christian through the Gothic period. Preq: FA105 or FA106

FA296 (Liberal Arts) African Art 3 hrs. 3 crs. The forms and historical style of African Art. Preq: FA105 or FA106 Not offered on a regular basis. Availability to be determined by the department.

FA297 (Liberal Arts) History of Photography 3 hrs. 3 crs. A chronological and thematic history of the medium from its beginnings until the present day, examining technological and aesthetic developments. Not offered on a regular basis. Availability to be determined by the department. [Flexible Core: Creative Expression]

FA298 (Liberal Arts) Twentieth Century Trends in Photography 3 hrs. 3 crs. 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: FA105 or FA106 or FA 297 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 crs. 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: FA105 or FA106. Not open to students with credit in ENG 303, ENG 493 or FA 400. 2 hours lecture, 2 hours laboratory. Not offered on a regular basis. Availability to be determined by the department.

FA304 (Liberal Arts) Film History: Style and Imagination II 4 hrs. 3 crs. 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: FA105 or FA106. Not open to students with credit in ENG 304, ENG 494 or FA 401. 2 hours lecture, 2 hours laboratory. Not offered on a regular basis. Availability to be determined by the department.

FA325 (Liberal Arts) Women and Art 3 hrs. 3 crs. 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: FA105 or FA106.

FA355 (Liberal Arts) \$ Drawing II 4 hrs. 3 crs. Continuation of Fine Arts 155; advanced problems. Preq: FA 155 or permission of department.

FA358 (Liberal Arts) \$ Graphics II: Print-Making 4 hrs. 3 crs. 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 crs. Techniques of painting in various mediums. Preq: FA 264.

FA365 (Liberal Arts) Painting IV 4 hrs. 3 crs. Techniques of painting in various mediums. Preq: FA 264.

FA373 (Liberal Arts) \$ Sculpture III 4 hrs. 3 crs. 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 crs. 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 crs. Fundamentals of photographic communication including basic shooting and darkroom techniques.

FA382 (Liberal Arts) \$ Photography II 4 hrs. 3 crs. 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 crs. 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 crs. 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.

FA385 (Liberal Arts) Film Making I 4 hrs. 3 crs. 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 crs. 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 crs. Architecture, sculpture, and painting of the Italian masters of the 16th century. Preq: FA105 or FA106.

FA393 (Liberal Arts) American Art to 1913 3 hrs. 3 crs. 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: FA105 or FA106. 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 crs. 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: FA105 or FA106. Not offered on a regular basis. Availability to be determined by the department.

FA395 (Liberal Arts) Latin-American Art 3 hrs. 3 crs. Architecture, sculpture, and painting in Mexico, Central and South America; Pre-Columbian styles of the New World; spread of the Spanish tradition. Preq: FA105 or FA106. Not offered on a regular basis. Availability to be determined by the department.

FA396 (Liberal Arts) Twentieth-Century Art 3 hrs. 3 crs. Architecture, sculpture, and painting in the 20th century. Preq: FA105 or FA106. Not offered on a regular basis. Availability to be determined by the department.

FA397 (Liberal Arts) Contemporary Art 3 hrs. 3 crs. This course serves as an introduction to issues relating to the production and reception of art since the mid-1960s. Preq: FA105 or FA106.

FA398 (Liberal Arts) African American Art 3 hrs. 3 crs. Art of Black people in the United States: its form as a significant contribution to the American scene. Preq: FA105 or FA106. 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 crs. 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: FA105 or FA106. Not offered on a regular basis. Availability to be determined by the department.

FA403 (Liberal Arts) Film and the Modern Arts 3 hrs. 3 crs. 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 crs. 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 crs. 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 crs. 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 crs. 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 crs. 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 crs. 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 crs. 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 crs. 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 crs. 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 crs. 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.

FA469 (Liberal Arts) Special Studies; Selected Studio Area 4 hrs. 3 crs. 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 crs. 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 crs. 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 crs. A highly intensive study of a selected art history topic. Preq: 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. This is a Writing Intensive course.

FA476 (Liberal Arts) Special Studies Seminar: Selected Topics in Art History 3 hrs. 3 crs. A highly intensive study of a selected art history topic. Preq: 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. This is a Writing Intensive course.

FA477 (Liberal Arts) Special Studies Seminar: Selected Topics in Art History 3 hrs. 3 crs. A highly intensive study of a selected art history topic. Preq: 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. This is a Writing Intensive course.

FA478 (Liberal Arts) Special Studies Seminar: Selected Topics in Art History 3 hrs. 3 crs. A highly intensive study of a selected art history topic. Preq: 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. This is a Writing Intensive course.

FA479 (Liberal Arts) Special Studies Seminar: Selected Topics in Art History 3 hrs. 3 crs. A highly intensive study of a selected art history topic. Preq: 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. This is a Writing Intensive course.

FA481 (Liberal Arts) \$ Photography III 4 hrs. 3 crs. Continuation of individual photography problems; emphasis on broadening and strengthening of perceptual individuality. Preq: FA 381.

FA482 (Liberal Arts) Photography IV 4 hrs. 3 crs. Independent problems; use of basic skills to develop personal statements. Preq: FA 381.

FA488 (Liberal Arts) Video I 4 hrs. 3 crs. 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 crs. 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.

FA499 (Liberal Arts) Research in Art History 3 hrs. 3 crs. 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 permission. This is a Writing Intensive course.

Finance

FINC100 (Not Liberal Arts) Fundamentals of Personal Finance 3 hrs. 3 crs. This course examines the fundamentals of personal finance & personal financial planning. Topics include: career planning, higher education planning, establishing and maintaining good credit, time value of money, investment options (stocks, bonds, and mutual funds), retirement planning and tax planning.

FINC101 (Not Liberal Arts) Fundamentals of Financial Planning and Wealth Management 3 hrs. 3 crs. This course examines the foundations of financial planning & wealth management. Topics include: time value of money, investment options (stocks, bonds, mutual funds, commodities), budgeting, cash-flow management, credit leveraging, retirement planning, estate planning, tax planning, higher education planning and health care planning.

FINC115 (Not Liberal Arts) Financial Mathematics I 3 hrs. 3 crs. This course will teach students important mathematical methods and techniques used in modern finance. The topics for this course include numeric and algebraic concepts and techniques; systems of equations; logarithms; exponentials; matrix methods; and typical mathematical calculations used in the financial professions-cash discounts, commissions, finance charges, compound interest, net present value, statistics, and optimization.

FINC 125 (Not Liberal Arts) Financial Mathematics II 3 hrs. 3 crs. This course will introduce students to basic concepts of statistics and probability theory as it applies to accounting and modern finance. Topics will include application problems involving random variables, central limit theory, sampling theory, distributions, hypothesis testing, and regression analysis. Preq: FINC 150 or BUS 201.

FINC150 (Not Liberal Arts) Financial Data Analytics I 4 (2 hours lecture; 2 hours laboratory) hrs. 3 crs. The objective of this course is to introduce, understand, apply and build up financial models to solve quantitative problems. This course is designed to evaluate the applicability as well as limitation of certain financial models. These models will also be used to enhance our understanding of a particular theory or set of data. By the end of the course, students will be able to collect data from various resources, create models to perform quantitative analysis, and make sound financial decisions. Coreq: ACC 101.

FINC200 (Not Liberal Arts) Decision Making in Finance and Accounting 3 hrs. 3 crs. This course will introduce students to basic concepts of marketing, management and operations as it relates to decision making in accounting and finance.

FINC201 (Not Liberal Arts) Foundations of Finance 3 hrs. 3 crs. This course provides students, pursuing studies in the areas of accounting and finance, with a rigorous introduction to the fundamentals of finance. The main concepts covered include the time value of money, valuation of debt and equity securities, financial reporting and analysis, introduction to risk analysis, capital budgeting

analysis, ethical and professional standards, and the nature and characteristics of domestic and global financial securities and markets. Preq: 1. ECON 220 or FINC 125 2. ACC 102.

FINC245 (Not Liberal Arts) Regulations for Accounting and Financial Professional 3 hrs. 3 crs. This course allows students the opportunity to explore the implications of the law and the legal environment as it applies to accountants and financial professionals. Topics covered include the federal securities regulations, other federal regulations, debtor/creditor relationship, choice of entity, Uniform Commercial Code, dispute resolution, legal duties and responsibilities of financial professionals, and other topics emphasized on the Uniform CPA Exam. Preq: ENG 126.

FINC250 (Not Liberal Arts) Financial Data Analytics II 4 (2 hours lecture; 2 hours laboratory) hrs. 3 crs. This course teaches intermediate concepts in the emerging field of financial data analytics. Topics will include analytical tools and techniques, managing diverse data sources, ensuring data confidentiality, predictive data analytics, professional best practices, and working through relevant examples using current analytics tools. Preq: 1. FINC 150 or BUS 201. 2. FINC 201 or FINC 321 or BUS 321.

FINC275 (Not Liberal Arts) Financial Planning and Wealth Management II 3 hrs. 3 crs. Overview of wealth management theories and practices. This course develops students' ability to apply the techniques of financial and income tax planning, investment and retirement planning, ethics, and communication. Topics include gathering relevant financial information, setting financial goals, examining clients' current financial status and developing financial strategies to meet clients' goals. Emphasis is placed on developing students' ability to design and implement appropriate strategies to satisfy the overall financial planning goals of clients. Preq: FINC 101.

FINC321 (Not Liberal Arts) Principles of Finance 3 hrs. 3 crs. 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: ACC 102 or ACC 103. Coreq: ECON 220 or FINC 125. Not open to students with credit in BUS 321 or FINC 201.

FINC322 (Not Liberal Arts) Investment and Security Analysis 3 hrs. 3 crs. Introduction to investment and securities; analysis of various types of securities, investment portfolio, management, and security selection; emphasis on new concepts and techniques. Not open to students with credit in BUS 322. Preq: FINC 201 or FINC 321. Coreq: ACC 201.

FINC324 (Not Liberal Arts) International Finance 3 hrs. 3 crs. 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. Not open to students with credit in BUS 324. Preq: FINC 201 or FINC 321. Coreq: ACC 201.

FINC325 (Not Liberal Arts) Real Estate Finance 3 hrs. 3 crs. The course will provide 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. Not open to students with credit in BUS 325. Preq: FINC 201 or FINC 321.

FINC329 (Not Liberal Arts) Corporate Finance 3 hrs. 3 crs. 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 and international corporate finance. Not open to students with credit in BUS 329. Preq: FINC 201 or FINC 321. Coreq: ACC 201.

FINC330 (Not Liberal Arts) Communications, Ethics and Professional Responsibility for Financial Professionals 3 hrs. 3 crs. This course will address various ethical situations that may arise over the course of a financial professional's career. Students will learn to communicate-verbally and in writing- their positions on how a financial professional should handle such cases based on the Professional Codes of Conduct for certified public accountants (CPAs) and chartered financial analysts (CFAs), respectively. The course will also explore and enhance interviewing and listening skills, documentation of client communications, client engagement letters, summary of engagement findings and/or concerns, appropriate email communications, and oral presentations. Preq: ACC 201.

FINC355 (Not Liberal Arts) Futures and Options 3 hrs. 3 crs. 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. Not open to students with credit in BUS 355. Preq: FINC 322.

FINC 360 (Not Liberal Arts) Financial Risk Management 3 hrs. 3 crs. Financial risk management is a complex process of identifying, quantifying and managing various risk exposures. The course offers an introduction to market risk, credit risk, liquidity risk, and operational risk. It covers risk measurement techniques for different types of financial risks, with particular attention devoted to Value at Risk (VaR). The course also discusses how risk measurement tools can be used for active management of the risk/return profile of financial institutions. Preq: FINC 250 and FINC 355.

FINC375 (Not Liberal Arts) Advanced Topics in Wealth Management 3 hrs. 3 crs. This course expands upon students' knowledge and ability to apply techniques of financial planning to include insurance and estate planning, ethics, and communication. Topics include gathering relevant financial information, setting financial goals, examining clients' current financial status and developing financial strategies to meet clients' goals. Emphasis is placed on developing students' ability to design and implement appropriate strategies to satisfy the overall financial planning goals of clients. Preq: FINC 275.

FINC475 (Not Liberal Arts) Case Studies in Accounting and Finance 3 hrs. 3 crs. This course provides a comprehensive overview of financial decisions, tools and techniques and their financial impact on the firm using the case study method. Topics covered include ethics in accounting and 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. This is a Writing Intensive course. Not open to students with credit in BUS 475. Preq: (FINC 322 and FINC 329) OR ACC 202. WRIT 301 or WRIT 302 or WRIT 303 or WRIT 304 or completion of at least 3 Writing Intensive credits at the 100- or 200-level.

FINC491 (Not Liberal Arts) Finance Independent Study I 1 hrs. 1 crs. Under the supervision of a faculty member in the department, students will complete a research project on a topic relevant to the nature and scope of finance. The research project must be preapproved and guided by the faculty member. Students will also periodically meet with the faculty mentor to assess progress. By the end of the semester, students will communicate their research findings orally and/or written. Preq: Department Permission.

FINC492 (Not Liberal Arts) Finance Independent Study II 2 hrs. 2 crs. Under the supervision of a faculty member in the department, students will complete a research project on a topic relevant to the nature and scope of finance. The research project must be preapproved and guided by the faculty member. Students will also periodically meet with the faculty mentor to assess progress. By the end of the semester, students will communicate their research findings orally and/or written. Preq: Department Permission.

FINC493 (Not Liberal Arts) Finance Independent Study III 3 hrs. 3 crs. Under the supervision of a faculty member in the department, students will complete a research project on a topic relevant to the nature and scope of finance. The research project must be preapproved and guided by the faculty member. Students will also periodically meet with the faculty mentor to assess progress. By the end of the semester, students will communicate their research findings orally and/or written. Preq: Department Permission.

FINC 575 (Not Liberal Arts) Advanced Aviation Finance 3 hrs. 3 crs. This course offers a comprehensive review of the financial analysis and modeling techniques used by aviation financial managers. The course provides an overview of the major tasks, issues and tools of financial management in relation to today's airline industry and the skills needed to resolve common problems faced by financial decision makers. Preq: Department Permission Required.

French

FREN101 (Liberal Arts) Elementary French I 4 hrs. 3 crs. 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 110 or FREN 113. This course may be offered as a face-to-face course or as a hybrid course. 2 hrs recitation; 2 hrs laboratory.

FREN102 (Liberal Arts) Elementary French II 4 hrs. 3 crs. Continuation of the beginners course; more complex grammatical structures; integrated reading and further practice in conversation. Preq: FREN 101 or FREN 110 or by placement department. Not open to students with credit in FREN 114. This course may be offered as a face-to-face course or as a hybrid course. 2 hrs recitation; 2 hrs laboratory.

FREN104 (Liberal Arts) Rapid Review of Basic French 3 hrs. 3 crs. A refresher course of basic French grammar and reading integrating the use of tapes and laboratory materials. Preq: FREN 102. Not credited toward fulfillment of French Major. Not open to students with credit in FREN 105 or above. Designed for students who wish to reinforce their basic knowledge of the language and for native speakers who have not studied French syntax. Not offered on a regular basis. Availability to be determined by the department.

FREN105 (Liberal Arts) Intermediate French I 3 hrs. 3 crs. 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 crs. 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 crs. Intensive beginner's 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. This course may be used to fulfill the College Option Requirement in Foreign Languages only for students in Health Professions programs. Students who switch from Health Professions to another major will have to take FREN 102 or a higher course in French. Not open to students with credits in FREN 101 or FREN 113. 2 hours lecture, 2 hours laboratory.

FREN200 (Liberal Arts) Commercial French I 3 hrs. 3 crs. 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 crs. 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. Not open to students with credit in FREN 225.

FREN206 (Liberal Arts) Introduction to Haitian Literature 3 hrs. 3 crs. 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 crs. 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 crs. 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 crs. 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 crs. 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.

FREN221 (Liberal Arts) French Literature from the Middle Ages to the Revolution in Translation 3 hrs. 3 crs. Major works of French literature through the Revolutionary period. Preq: Sophomore status or permission of instructor. Not credited toward fulfillment of French major requirements. Not open to students with credit in FREN 325, FREN 326, FREN 330 or FREN 333. Not offered on a regular basis. Availability to be determined by the department.

FREN226 (Liberal Arts) French & Francophone Women's Writing 3 hrs. 3 crs. Introduces students to significant literature written by women of the French and Francophone speaking world. This course may be offered in a face-to-face, hybrid, or asynchronous online format. Preq: ENG 125.

FREN231 (Liberal Arts) Survey of French Literature I 3 hrs. 3 crs. 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. Not open to students with credits in French 219.

FREN232 (Liberal Arts) Survey of French Literature II 3 hrs. 3 crs. 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 crs. 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 crs. 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 crs. 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 crs. 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 crs. 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 crs. Haitian novel from its beginning in 1901 to 1915. Works by such major figures as Marcelin, Hibbert, and Lherisson will be studied. Preq: FREN 106 or department permission required.

FREN301 (Liberal Arts) The Haitian Novel after 1915 3 hrs. 3 crs. 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, Frank Etienne, Fignole, etc. Preq: FREN 106 or department permission required.

FREN302 (Liberal Arts) Haitian Poetry through 1915 3 hrs. 3 crs. 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 crs. This course explores the growth of the Haitian poetry during the 20th Century. It focuses on works by famous poets from the Movement Indigeniste to Haiti litteraire. Preq: FREN 106 or department permission required.

FREN304 (Liberal Arts) The Literature of Quebec 3 hrs. 3 crs. This course is an introduction to major Francophone works by 20th-century writers in Quebec. Preq: FREN 106 or department permission required.

FREN305 (Liberal Arts) Francophone Literature of the Maghreb 3 hrs. 3 crs. 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. Preq: FREN 106 or department permission required.

FREN313 (Liberal Arts) History of the French Language 3 hrs. 3 crs. The evolution of the French language against a background of political, economic and social developments. Preq: 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 crs. 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. Preq: FREN 106 or department permission required.

FREN320 (Liberal Arts) The Nineteenth Century French Novel 3 hrs. 3 crs. This course will explore chief masterpieces of important novelists like Stendhal, Balzac, Flaubert and Zola. Preq: FREN 106 or department permission required.

FREN321 (Liberal Arts) The Twentieth Century French Novel 3 hrs. 3 crs. This course will explore the various literary movements and their relationships to the French 20th century novel. Preq: FREN 106 or department permission required. Not open to students with credit in French 323.

FREN322 (Liberal Arts) Gide, Proust and Duras 3 hrs. 3 crs. 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. Preq: FREN 106 or department permission required.

FREN323 (Liberal Arts) The Novel in the Nineteenth Century 3 hrs. 3 crs. Representative works of fiction; emphasis on Stendhal, Balzac, Flaubert and Zola. Preq: FREN 106 or permission of department. Not offered on a regular basis. Availability to be determined by the department.

FREN324 (Liberal Arts) Nineteenth Century Poetry and Theater 3 hrs. 3 crs. Romantic, Parnassian, and Symbolist poets and some dramatists of the 19th century. Preq: FREN 106. Not offered on a regular basis. Availability to be determined by the department.

FREN325 (Liberal Arts) The Age of Enlightenment 3 hrs. 3 crs. Theater, novel, and works of the Philosophers (Montesquieu, Voltaire, Diderot, Rousseau) in relation to the political and social thought of the 18th century. Preq: FREN 106. Not open to students with credit in FREN 221. Not offered on a regular basis. Availability to be determined by the department.

FREN327 (Liberal Arts) The Twentieth-Century Novel and Theater I 3 hrs. 3 crs. Major French novelists and dramatists of the 20th century; concentration on works published before 1945. Preq: FREN 106. Not open to students with credit in FREN 222. Not offered on a regular basis. Availability to be determined by the department.

FREN328 (Liberal Arts) The Twentieth-Century Novel and Theater II 3 hrs. 3 crs. Major French novelists and dramatists of the 20th century; concentration on works published after 1945. Preq: FREN 106. Not open to students with credit in FREN 222. Not offered on a regular basis. Availability to be determined by the department.

FREN330 (Liberal Arts) The Age of Classicism 3 hrs. 3 crs. Study of the best known writers of the 17th century; philosophers, moralists, dramatists. Preq: FREN 106. 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 crs. Literature of the period; poetry, theater, and prose. Preq: FREN 106. 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 crs. A survey of the best known writers from Haiti, Martinique, Guadeloupe, and French Guyana. Preq: FREN 106. Not offered on a regular basis. Availability to be determined by the department.

FREN335 (Liberal Arts) Literature of French Speaking Africa 3 hrs. 3 crs. Best known writers of Senegal, Cameroon, Guinee, Cote d'Ivoire, and Madagascar and other writers emphasizing negritude and revolt. Preq: FREN 106. Not offered on a regular basis. Availability to be determined by the department.

FREN338 (Liberal Arts) Love in French Literature 3 hrs. 3 crs. Readings and discussions of masterpieces of various poetry, novels, letters, and plays with love as their main or only theme. Preq: Any French literature course at the 200-level except FREN 213. Not offered on a regular basis. Availability to be determined by the department.

FREN340 (Liberal Arts) Advanced Conversation 3 hrs. 3 crs. For non-native speakers wishing to increase fluency and accuracy in French at the advanced level. Based on articles of current interest. Preq: 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 crs. 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. Preq: FREN 106 or department permission required.

FREN342 (Liberal Arts) French Theater after 1789 3 hrs. 3 crs. 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. Preq: FREN 106 or department permission required.

FREN343 (Liberal Arts) French Poetry through 1789 3 hrs. 3 crs. 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. Preq: FREN 106 or department permission required.

FREN344 (Liberal Arts) French Poetry after 1789 3 hrs. 3 crs. 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. Preq: FREN 106 or department permission required.

FREN362 (Liberal Arts) Themes in French Literature 3 hrs. 3 crs. An examination of a significant theme as revealed in French literature. Preq: 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 crs. An examination of a significant theme as revealed in French literature. Preq: 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 crs. The culture and civilization of France against an historical background. Preq: FREN 106. Not offered on a regular basis. Availability to be determined by the department.

FREN382 (Liberal Arts) Haitian Culture & Civilization 3 hrs. 3 crs. 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. Preq: FREN 106 or permission of department. Not offered on a regular basis. Availability to be determined by the department.

FREN400 (Liberal Arts) Senior Seminar 3 hrs. 3 crs. 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 crs. 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 crs. 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 crs. 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) \$ Earth 3 hrs. 3 crs. 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 GEOL 207 counts as a lecture-laboratory course of 4 credits. This course may be offered in a face-to-face or hybrid format. [Flexible Core: Scientific World]

GEOL115 (Liberal Arts) Energy, Resources and the Environment 3 hrs. 3 crs. An introduction to the availability, distribution, recovery and significance of the Earth's natural resources. Alternates to our dwindling supply of these resources, with emphasis on the fossil fuels. Environmental impact of the use and disposal of these resources will be analyzed. The interaction of the various disciplines of natural science will be stressed. Not credited toward fulfillment of Geology major requirements. This course may be offered in a face-to-face or hybrid format. [Flexible Core: Scientific World]

GEOL120 (Liberal Arts) \$ Our Oceanic Environment 3 hrs. 3 crs. 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. [Flexible Core: Scientific World]

GEOL121 (Liberal Arts) \$ History of Life 3 hrs. 3 crs. 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. [Flexible Core: Scientific World]

GEOL140 (Liberal Arts) \$ Our Earth 4 hrs. 3 crs. This course provides an introduction to the geologic environment and its relationship to human affairs; volcanic activities, earthquakes, landscapes, land use and abuse, the earth through time, recognition of minerals, rocks and fossils, maps and aerial photographs. A museum visit and a one-day trip are required. [Required Core: Life and Physical Sciences]

GEOL207 (Liberal Arts) \$ Geologic Techniques 2 hrs. 1 crs. Field and laboratory techniques in geology; field identification of common rocks and minerals; introduction to aerial photographs, topographic and geologic maps. Preq: GEOL 110. Coreq: GEOL 110. Not open to students with credit in GEOL 111. 2 hours laboratory. Two field trips required.

GEOL211 (Liberal Arts) \$ Structural Geology 6 hrs. 4 crs. 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 crs. 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. Coreq: GEOL 110 or GEOL 140. 4 lecture, 3 laboratory.

GEOL225 (Liberal Arts) \$ Mineralogy 7 hrs. 5 crs. 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 or GEOL 140. Not open to students with credit in GEOL 222 and GEOL 223. 3 hours lecture, 4 hours laboratory. A field trip may be required.

GEOL282 (Liberal Arts) \$ Weather and Climate 4 hrs. 3 crs. An introduction to the earths atmosphere, its structure, composition and evolution. Climatology, including the Greenhouse Effect and Global Warming. Atmospheric phenomena, weather, acid rain and the degradation of the ozone layer. Laboratory work includes; collection of data from an on-site weather station and on the internet, computer models of atmospheric processes. 2 hours lecture, 2 hours laboratory. [Required Core: Life and Physical Sciences]

GEOL308 (Liberal Arts) Geomorphology 4 hrs. 3 crs. Descriptive and analytical study of the surface features of the earth. Special emphasis given to steam hydraulics, map and aerial photo interpretation of land forms. Preq: GEOL 211. 2 hours lecture, 2 hours laboratory. Two field trips required.

GEOL323 (Liberal Arts) \$ Field Methods 3 hrs. 1.5 crs. Use of the Brunton Compass, telescopic alidade, and planetable. Preq: GEOL 211. Not open to students with credit in GEOL 322. Two field trips required.

GEOL332 (Liberal Arts) Optical Mineralogy 3 hrs. 2 crs. 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. Coreq: CHEM 101. 1 hr lecture, 2 hr laboratory.

GEOL334 (Liberal Arts) \$ Petrology 6 hrs. 4 crs. 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. Coreq: GEOL 332. 2 hr lecture, 4 hr laboratory. Two field trips are required.

GEOL340 (Liberal Arts) \$ Remote Sensing and Air Photo Interpretation 3 hrs. 2 crs. 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 crs. 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 crs. 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 hour lecture, 2 hours laboratory. A one day field trip is required.

GEOL343 (Liberal Arts) Ore Deposits and Ore Evaluation 3 hrs. 2 crs. 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 crs. 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 crs. 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 hour lecture, 2 hours laboratory.

GEOL349 (Liberal Arts) Assessment of Environmental Impact 1 hrs. 1 crs. 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 140. Not credited toward fulfillment of Science Area Requirements. A one day field trip is required.

GEOL403 (Liberal Arts) Paleocology 4 hrs. 3 crs. 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 permission of instructor. 2 hours lecture, 2 hours laboratory. Field trip required.

GEOL411 (Liberal Arts) \$ Sedimentation 4 hrs. 3 crs. 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 232. 2 hours lecture, 2 hours laboratory. Two field trips required.

GEOL412 (Liberal Arts) Stratigraphy 4 hrs. 3 crs. 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 213 or permission of instructor. 2 hours lecture, 2 hours laboratory. Two field trips required.

GEOL425 (Liberal Arts) \$ Field Mapping 8 hrs. 4 crs. Three weeks of intensive field mapping in the Folded Appalachian Mountains; measurements of stratigraphic sections and the preparation of geologic maps and sections by means of Brunton Compass, aerial photographs and topographic base maps of the selected areas. A final professional style report is required. Preq: GEOL 323. Not open to students with credit in GEOL 424. This is a Writing Intensive course.

GEOL441 (Liberal Arts) \$ Geochemistry 4 hrs. 3 crs. Survey of geochemical principles and techniques; distribution and migration of the chemical elements within the earth; radio-active and stable isotopes in geology. Preq: GEOL 333. 2 hours lecture, 2 hours laboratory. Field trip required.

GEOL496 (Liberal Arts) Independent Study 4 hrs. 2 crs. Independent Study or research on advanced topics under the supervision of a member of the faculty. Preq: Permission of instructor prior to registration. Not open to students with a combined total of 12 credits in Independent Study in the Natural Sciences Department. 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 crs. Independent Study or research on advanced topics under the supervision of a member of the faculty. Preq: Permission of instructor prior to registration. Not open to students with a combined total of 12 credits in Independent Study in the Natural Sciences Department. 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 crs. Individual research on advanced topics under the supervision of a member of the faculty. Preq: Permission of instructor prior to registration. Not open to students with a combined total of 12 credits in Independent Study in the Natural Sciences Department. 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 crs. Individual research on advanced topics under the supervision of a member of the faculty. Preq: Permission of instructor prior to registration. Not open to students with a combined total of 12 credits in Independent Study in the Natural Sciences Department. 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. 3 crs. Basic principles of a beginner's course; designed to give the foundations of the language. Preq: Placement by department. Offered when the demand exists. 2 hrs recitation; 2 hrs laboratory.

GERM102 (Liberal Arts) Elementary German II 4 hrs. (2 hrs recitation; 2 hrs. lab) hrs. 3 crs. Continuation of the beginner's course; more complex grammatical structures, integrated readings and further practice in conversation. Preq: GERM 101 or placement by department. Not open to students with credits in GERM 111 or GERM 114. Offered when the demand exists.

GERM105 (Liberal Arts) Intermediate German I 3 hrs. 3 crs. 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 crs. 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 crs. 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 crs. 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 crs. 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 crs. 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.

GERO210 (Liberal Arts) Alzheimer's Disease and Related Dementias 3 hrs. 3 crs. This course addresses Alzheimer's Disease (AD) the major type of dementia and major cause of cognitive impairment in the aging. Dementia affects sixteen percent of those over the age of 65, of which two-thirds have the Alzheimer's type disease. Since increasing age is the greatest risk factor for dementia, this course will prepare those involved in the field of aging to better understand and manage the disease. This course is designed for health and healthcare professionals, caregivers, and community service providers. Preq: GERO 101 or departmental permission. Coreq: GERO 101 or departmental permission.

GERO301 (Liberal Arts) Wellness and The Elderly: Programs and Services 3 hrs. 3 crs. 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. Not open to students with credit in HE 330. 3 hours lecture.

Greek

GRK101 (Liberal Arts) Elementary Greek I 4 hrs. 3 crs. Basic principles of a beginner's course; designed to give the foundations of the language. Preq: Placement by department. 2 hrs recitation; 2 hrs laboratory.

GRK102 (Liberal Arts) Elementary Greek II 4 hrs. 3 crs. Continuation of the beginner's course; more complex grammatical structures integrated readings and further practice in conversation. Preq: GRK 101 or placement by department. 2 hrs recitation; 2 hrs laboratory.

Health Education

HE111 (Liberal Arts) \$ Health and the Individual 3 hrs. 3 crs. Self-assessment of individual 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 credit in HE 110. Not credited towards Health Education major requirements. [College Option]

HE200 (Not Liberal Arts) \$ Basic Cardiac Life Support 1 hrs. 1 crs. 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 crs. 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 crs. 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 crs. The causes of stress and its relationship to health; self-help techniques for managing stress and tension. Not open to students with credit in HE 491 Seminar: Stress and Health.

HE219 (Liberal Arts) Health Services 3 hrs. 3 crs. Health services in school and community settings; a review of the health delivery system with implications for health education programs. Not open to students with credit in HE 319 and HE 322.

HE223 (Liberal Arts) Health Behavior 2 hrs. 2 crs. 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. Coreq: HE 224. Not open to students with credit in HE 323.

HE224 (Not Liberal Arts) Laboratory in Health Behavior 2 hrs. 1 crs. Students participate in the design and application of various models for health behavior change. Preq: Completion of Behavioral Science Area Requirements. Coreq: HE 223. Not open to students with credit in HE 324.

HE241 (Liberal Arts) Sex and Sexuality 3 hrs. 3 crs. Physiological and health aspects of human sexuality, cross cultural patterns, changing sexual roles, sexuality and the law, sexual knowledge, attitudes, beliefs and behaviors, and intra- and interpersonal relationships.

HE312 (Liberal Arts) Health, Communities, & Society 3 hrs. 3 crs. The nature of risk behaviors, acute and chronic diseases and illnesses in communities and society, with emphasis on agencies, principles and techniques of prevention and control.

HE313 (Liberal Arts) Alcohol Use Disorder 3 hrs. 3 crs. Physiological, psychological and sociological changes which result from alcohol use and abuse, emphasis on the cause, treatment and prevention of alcohol use disorder.

HE314 (Liberal Arts) Nutrition and Health 2 hrs. 2 crs. The relationship of foods and nutrition to personal health and health problems, such as weight control. This course may be offered as a face-to-face course, a hybrid course or as a fully online asynchronous course.

HE315 (Liberal Arts) Health and the Consumer 2 hrs. 2 crs. 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. This course may be offered as an online course.

HE316 (Liberal Arts) Family Health 3 hrs. 3 crs. The physical, social, and emotional aspects of health in relationship to the life cycle within the family.

HE317 (Not Liberal Arts) First Aid and Safety Education 2 hrs. 2 crs. 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.

HE321 (Liberal Arts) Health Counseling 3 hrs. 3 crs. 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

HE331 (Liberal Arts) Program Planning 3 hrs. 3 crs. 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 for GERO majors. Not open to students with credit in HE 320. This is a Writing Intensive course.

HE341 (Liberal Arts) HIV/AIDS Public Health Implications 3 hrs. 3 crs. 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) Substance Use Disorder 3 hrs. 3 crs. Historical, pharmacological, legal, physiological and psycho-social aspects of substance use and abuse; emphasis on the cause, treatment, and prevention of substance use disorder. Seminar approach used extensively.

HE363 (Liberal Arts) Measurement and Evaluation in Health and Physical Education 3 hrs. 3 crs. 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. This course may be offered in a face-to-face or hybrid format. Not open to students with credit in PE 363.

HE365 (Liberal Arts) Research and Writing in Health and Physical Education 3 hrs. 3 crs. This course is designed to introduce the concepts and methodologies in modern scientific inquiry and create the foundation for research in health and physical education. Students will be required to read and interpret scientific research, evaluate professional literature, and communicate their ideas and findings through written assignments. Preq: ENG 126, PE 363 or HE 363 or PH 320 or Department Permission. This is a Writing Intensive course.

HE420 (Liberal Arts) Alcohol & Substance Use Counseling 3 hrs. 3 crs. The development and application of health counseling skills when working with alcohol and substance users and their communities in varied educational and therapeutic settings. Preq: HE 313 or HE 342.

HE450 (Liberal Arts) Practicum in Health Education 2 hrs. 2 crs. Development of leadership skills in health education. Coreq: HE 471 or HE 472.

HE452 (Liberal Arts) Cardiovascular Fitness 4 hrs. 3 crs. 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. Not open to students with credit in PE 452. 2 hours lecture, 2 hours laboratory. Students registering for this course are advised to register for 2 credits of field work in health or physical education. Not offered on a regular basis. Availability to be determined by the department.

HE471 (Not Liberal Arts) Field Work in Health Education 2 hrs. 1 crs. 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 (Not Liberal Arts) Field Work in Health Education 2 hrs. 1 crs. 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 (Not Liberal Arts) Field Work in Health Education 4 hrs. 2 crs. 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 (Not Liberal Arts) Field Work in Health Education 4 hrs. 2 crs. 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 crs. 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. Not open to students with credit in PE 481 or PE 482.

HE487 (Liberal Arts) Adult Fitness Program 3 hrs. 3 crs. Planning, designing, managing and evaluating adult fitness programs. Preq: Junior status in departmental major.

HE488 (Liberal Arts) Worksite Wellness 3 hrs. 3 crs. Assess, plan and implement worksite wellness programs; design worksite wellness strategies supporting physical and mental well-being, stress

management, physical fitness, smoking cessation, and substance use disorders. 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 crs. 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 crs. 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 crs. 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 crs. 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 crs. 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 crs. 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 TBA hrs. 1 crs. 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 TBA hrs. 1 crs. 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 crs. 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 TBA hrs. 2 crs. 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.

Hebrew

HEB101 (Liberal Arts) Elementary Hebrew I 4 hrs. 3 crs. Basic principles of a beginner's course; designed to give the foundations of the language. Preq: Placement by department. Offered when the demand exists. 2 hrs recitation; 2 hrs laboratory,

HEB102 (Liberal Arts) Elementary Hebrew II 4 hrs. 3 crs. Continuation of the beginner's course; more complex grammatical structures, integrated readings and further practice in conversation. Preq: HEB 101 or placement by department. Offered when the demand exists. 2 hrs recitation; 2 hrs laboratory.

HEB105 (Liberal Arts) Intermediate Hebrew I 3 hrs. 3 crs. 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 crs. 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 crs. 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. Coreq: ENG 125. [Flexible Core: World Cultures and Global Issues]

HIST101 (Liberal Arts) Pacific Century: The Emergence of Modern Pacific Asia 3 hrs. 3 crs. 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. Coreq: 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 crs. The historical role of the city in the development of the modern world. Preq: ENG 125. Coreq: 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 crs. Revolution and social thought as a means of comprehending the development of the modern world. Preq: ENG 125. Coreq: 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 crs. Europe, the Americas, Africa and Asia in modern times; selected historical studies of imperialism, colonialism, nationalism and independence movements. Preq: ENG 125. Coreq: ENG 125. [Flexible Core: World Cultures and Global Issues]

HIST113 (Liberal Arts) The Birth of Europe 3 hrs. 3 crs. The formation of European civilization from earliest times into the 17th century. Preq: ENG 125. Coreq: ENG 125. [Flexible Core: World Cultures and Global Issues]

HIST201 (Liberal Arts) Beginnings of the American People 3 hrs. 3 crs. 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. [Flexible Core: U.S. Experience in its Diversity]

HIST202 (Liberal Arts) The Emergence of Urban America 3 hrs. 3 crs. 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. [Flexible Core: U.S. Experience in its Diversity]

HIST203 (Liberal Arts) Slavery in World History 3 hrs. 3 crs. 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 crs. 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. Not open to students with credit in HIST 323. [Flexible Core: U.S. Experience in its Diversity]

HIST205 (Liberal Arts) History of Women in the United States 3 hrs. 3 crs. Women in American history: their status and contributions. Preq: ENG 125.

HIST206 (Liberal Arts) Women and the Family in World History 3 hrs. 3 crs. 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 crs. 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 crs. 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 crs. 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 crs. 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 crs. 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.

HIST263 (Liberal Arts) Jewish History: From Ancient Israel until the end of the Middle Ages 3 hrs. 3 crs. 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 crs. 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 crs. 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 crs. 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. [Flexible Core: U.S. Experience in its Diversity]

HIST274 (Liberal Arts) The American Ethnic Experience 3 hrs. 3 crs. 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. [Flexible Core: U.S. Experience in its Diversity]

HIST275 (Liberal Arts) African History until 1800 3 hrs. 3 crs. 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 crs. Development of Africa in the light of imperialism and African nationalism. Preq: ENG 125.

HIST277 (Liberal Arts) The Caribbean since Columbus 3 hrs. 3 crs. 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 crs. 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.

HIST279 (Liberal Arts) History of Hip-Hop 3 hrs. 3 crs. 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 subculture, to mainstream culture. 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 "rockin" and "pop-lockin"), and fashion. Preq: ENG 125. This course is cross-listed with MUS 279. Not open to students with credit in MUS 279. This is a Writing Intensive course.

HIST281 (Liberal Arts) American Military History from World War I to the War on Terror 3 hrs. 3 crs. This course surveys American military history from 1914 to the present. US military strategy and operations will be examined with attention given to the evolution of weaponry, communications and intelligence gathering particularly as this has been changed by the emergence of technology. Ethical issues in US military engagements will be discussed. Preq: ENG 125, ENG 126 or ENG 200. Coreq: ENG 125, ENG 126 or ENG 200. This course may be offered in a face-to-face or asynchronous online format.

HIST311 (Liberal Arts) The Colonial Period of American History, 1492-1760 3 hrs. 3 crs. 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 crs. 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 crs. 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 crs. 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 crs. 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.
- HIST326 (Liberal Arts) American Economic History since the Civil War** 3 hrs. 3 crs. 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 crs. 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 crs. 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 crs. 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 crs. 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 crs. 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 crs. 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 crs. 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.
- HIST338 (Liberal Arts) Modern France** 3 hrs. 3 crs. 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 crs. 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 crs. 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 crs. 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 crs. 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 crs. 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 crs. 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 crs. 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 crs. 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 crs. 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 crs. A study of the political, economic, social and demographic challenges confronting Africa during the era of the Atlantic slave trade (15th to 19th centuries). Preq: ENG 126 and 3 credits in History. This is a Writing Intensive course.
- HIST375 (Liberal Arts) Decolonization in West Africa** 3 hrs. 3 crs. A study of the revolutionary movements which resulted in the achievement of independence by the West African colonies, from 1940 to 1960. Preq: ENG 126 and 3 credits in History. This is a Writing Intensive course.
- HIST376 (Liberal Arts) West Africa since Independence** 3 hrs. 3 crs. An analysis of the progress and problems of West Africa since independence (1960 to the present). Preq: ENG 125 and 3 credits of History.
- HIST389 (Liberal Arts) The American Teenager: Rewriting History** 3 hrs. 3 crs. Narratives of the American Teenager are typically based on the prototypical White, male rebel emerging in pop culture, literature, movies, and advertising. This course will explore that narrative and the history and rhetoric of 'teenage' in the U.S. The second part of the course will engage students in actively (re)writing that narrative bringing in a variety of more current and diverse perspectives of youth and youth culture, as informed by a variety of genres and expressions. Preq: Junior Status. This course is cross-listed with YS 389. Not open to students with credit in YS 389.
- HIST400 (Liberal Arts) Seminar in History** 3 hrs. 3 crs. 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. ENG 126 or WRIT 301. Not offered on a regular basis.
- HIST401 (Liberal Arts) Seminar in History** 3 hrs. 3 crs. 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. ENG 126 or WRIT 301. Not offered on a regular basis.

HIST402 (Liberal Arts) Seminar in History 3 hrs. 3 crs. 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. ENG 126 or WRIT 301. Not offered on a regular basis.

HIST403 (Liberal Arts) Seminar in History 3 hrs. 3 crs. 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. ENG 126 or WRIT 301. Not offered on a regular basis.

HIST420 (Liberal Arts) Internship in History 3 hrs. 3 crs. 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 Departmental Permission.

HIST440 (Liberal Arts) Advanced Seminar in History 3 hrs. 3 crs. An advanced seminar on a focused theme in history designed for majors, minors, and students with a sustained interest in the scholarly study of history. Topics vary according to the expertise of instructors. Preq: ENG 126; 18 credits in history; Junior status. This course is Writing Intensive.

HIST490 (Liberal Arts) Senior Research in History 3 hrs. 3 crs. 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.

Health Professions General Core

HPGC101 (Liberal Arts) Basic Concepts of Health Professions 2 hrs. 2 crs. 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 crs. Basic principles of health administration and organization, background and development of public health; community health needs and resources; public health activities and personnel; international public health. Field trips may be required. [Flexible Core: Scientific World]

HPGC201 (Liberal Arts) Principles of Epidemiology 3 hrs. 3 crs. 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 a Health Professions major. Field trips may be required. Not offered on a regular basis. Availability to be determined by the department.

Physician Assistant Studies (MS)

HPPA500 (Not Liberal Arts) Introduction to E-Portfolio/Orientation 15 hrs. 1 crs. Introductory course of the E-Portfolio series of courses. Orientation to the program-specific requirements, resources, policies, and procedures applicable throughout the didactic and clinical phases. Medical terminology, inter-professional role awareness; introductions to critical thinking, professionalism and intellectual honesty. Preq: All prerequisites required for admission to the PA program and official acceptance into the program. This course may be offered in a face-to-face or hybrid format.

HPPA502 (Not Liberal Arts) Physical Diagnosis I 75 hrs. 3 crs. First of a two-course sequence; instruction in eliciting complete medical history, performing a comprehensive physical examination and proper documentation. Preq: All prerequisites required for admission to the PA program and official acceptance into the program. 2 hours lecture, 3 hours laboratory.

HPPA504 (Not Liberal Arts) Clinical Anatomy 75 hrs. 3 crs. Clinically focused embryology, gross anatomy and neuroanatomy. Provides an understanding of the developmental, structural and functional anatomy of the human body relevant to the needs of the physician assistant. Incorporates the use of virtual dissection simulations, diagnostic images, video and anatomical models. Associations are made with clinical physiology, pathophysiology and clinical medicine. Preq: All prerequisites required for admission to the PA program and official acceptance into the program. 2 hours lecture, 2 hours recitation, 1 hour laboratory.

HPPA506 (Not Liberal Arts) Applied Medical Sciences 45 hrs. 3 crs. Normal functioning of human cells, tissues and organs; homeostatic neurologic and endocrine regulation systems; and foundations of genetics and molecular mechanisms of health and disease. To the depth and breadth necessary for application to clinical practice as a Physician Assistant. Preq: All prerequisites required for admission to the PA program and official acceptance into the program. 3 hours lecture.

HPPA508 (Not Liberal Arts) Interviewing and Counseling 15 hrs. 1 crs. Analysis and simulation of health professional-patient interactions. Psychosocial factors impacting physical and emotional health. Includes analysis and simulation of inter-professional healthcare provider interactions. Preq: All prerequisites required for admission to the PA program and official acceptance into the program. 1 hour lecture.

HPPA510 (Not Liberal Arts) PA Profession 30 hrs. 2 crs. Introduction to the role of the PA, with an emphasis on the history, training, practice characteristics and certification process. Physician Assistant credentialing and employment, medico-legal concerns, analysis of current issues affecting PA practice and the PA role in the healthcare system. Preq: All prerequisites required for admission to the PA program and official acceptance into the program. 2 hours lecture.

HPPA512 (Not Liberal Arts) Health Promotion and Disease Prevention 30 hrs. 2 crs. Health promotion and disease prevention strategies will be explored, utilizing evidence-based medicine to address common health issues. Students will learn to screen for common diseases and predictors of disease as well as to design appropriate interventions and lifestyle modifications to promote optimal health for their patients. Preq: All prerequisites required for admission to the PA program and official acceptance into the program. This course may be offered in a face-to-face or hybrid format.

HPPA514 (Not Liberal Arts) Biomedical Ethics 30 hrs. 2 crs. This course examines ethical issues embedded in the organization, practice and delivery of healthcare in the United States. Special emphasis is placed on the experience of physician assistants, patients and families. Preq: All prerequisites required for admission to the PA program and official acceptance into the program. 2 hours lecture.

HPPA516 (Not Liberal Arts) Public Health 30 hrs. 2 crs. Principles of population-based health maintenance efforts; epidemiology, research methods and statistical analysis of health data; community health needs and resources; and the physician assistant role in public health. Preq: All prerequisites required for admission to the PA program and official acceptance into the program. This course may be offered in a face-to-face or hybrid format.

HPPA518 (Not Liberal Arts) Health Policy 30 hrs. 2 crs. Organization and administration of the health care system in the United States with exploration of current issues including but not limited to healthcare equity, quality and accessibility; workforce and financing. Preq: All prerequisites required for admission to the PA program and official acceptance into the program. This course may be offered in a face-to-face or hybrid format.

HPPA520 (Not Liberal Arts) Pharmacology I 45 hrs. 2 crs. First of a three-course sequence; the study of pharmacological principles as they apply to the practice of medicine. Prototypical drugs in each major class are considered in detail. This course provides the student with foundation pharmacological knowledge and skills to enable basic competency in prescriptive skills. Introduction to practical prescription writing. Preq: All prerequisites required for admission to the PA program and official acceptance into the program. 2 hours lecture, 1 hour recitation.

HPPA522 (Not Liberal Arts) Physical Diagnosis II 75 hrs. 3 crs. Continued exploration of the strategies and skills of medical history taking and physical examination. Includes practical laboratory sessions and a clinical fieldwork component. Preq: All prerequisites required for admission to the PA program and official acceptance into the program. 2 hours lecture, 3 hours laboratory.

HPPA524 (Not Liberal Arts) Pathophysiology 45 hrs. 3 crs. Introduction to the study of pathophysiology and serves as a foundation for the clinical medicine courses. Students are expected to apply their knowledge of anatomy and clinical physiology. Subject matter covered will be supported by including select clinical correlations each lecture. Preq: All prerequisites required for admission to the PA program and official acceptance into the program. 3 hours lecture.

HPPA526 (Not Liberal Arts) Pediatrics 30 hrs. 2 crs. Foundations of pediatric medicine from birth through adolescence including the well-child examination, preventive healthcare, routine screening, and recognition and management of common pediatric conditions. Special emphasis will be placed on Physician Assistant practice in an urban setting. Preq: All prerequisites required for admission to the PA program and official acceptance into the program. 2 hours lecture.

HPPA528 (Not Liberal Arts) Clinical Medicine I 90 hrs. 3 crs. First of a three-course sequence designed to familiarize the student with various internal medicine problems. Foundations in hematology, endocrinology, pulmonology, dermatology and cardiology for Physician Assistant clinical practice. Includes brief overviews of the pertinent anatomy and physiology. Each disease entity is considered in terms of etiology, pathophysiology, clinical presentation, diagnostics, patient education, treatment and referral. Preq: All prerequisites required for admission to the PA program and official acceptance into the program. 3 hours lecture, 3 hours recitation.

HPPA530 (Not Liberal Arts) Evidence Based Medicine and Health Informatics 30 hrs. 2 crs. Introduction to principles of evidence based medicine (EBM) and its application to clinical practice. Topics will include formulation of a medical question, implementation of a search, evaluation of potential sources of evidence and application of search results to clinical practice. Also covered are theoretical and practical aspects of processing, utilization and communication of the medical literature as it relates to use of electronic health records, medical coding and billing, use of medical

calculators, and shared decision making. Preq: All prerequisites required for admission to the PA program and official acceptance into the program. This course may be offered in a face-to-face or hybrid format.

HPPA532 (Not Liberal Arts) Surgery 60 hrs. 4 crs. Fundamentals of the diagnosis and management of surgical disorders; general surgery, orthopedics and other surgical subspecialties; principles of anesthesia; and other topics relevant to surgical practice. Preq: All prerequisites required for admission to the PA program and official acceptance into the program. 4 hours lecture.

HPPA534 (Not Liberal Arts) Diagnostic Studies 45 hrs. 1 crs. The indications, limitation, procedures and interpretation of medical laboratory, radiology laboratory, and other diagnostic studies utilized in modern medicine. Students will perform and observe performance of selected laboratory diagnostic procedures. Preq: All prerequisites required for admission to the PA program and official acceptance into the program. 1 hour lecture, 2 hours laboratory.

HPPA536 (Not Liberal Arts) Pharmacology II 30 hrs. 2 crs. A continuation of Pharmacology I; further exploration of pharmacologic principles as they apply to future prescriptive practice as a Physician Assistant. Preq: All prerequisites required for admission to the PA program and official acceptance into the program. 2 hours lecture.

HPPA538 (Not Liberal Arts) Obstetrics/Gynecology 30 hrs. 2 crs. Foundations of women's health care including pre-natal, obstetric, and gynecologic care. Health promotion and disease prevention, labor and delivery care, and recognition and management of common gynecologic conditions will be considered with emphasis on Physician Assistant practice in an urban setting. Preq: All prerequisites required for admission to the PA program and official acceptance into the program. 2 hours lecture.

HPPA540 (Not Liberal Arts) Clinical Correlations Seminar I 30 hrs. 1 crs. First of a two-course sequence. 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. Emphasizes differential diagnosis and treatment of diseases commonly seen in urban health care settings. Incorporates evidence based medicine techniques. Preq: All prerequisites required for admission to the PA program and official acceptance into the program. 2 hours laboratory.

HPPA542 (Not Liberal Arts) Clinical Medicine II 60 hrs. 2 crs. Second of a three-course sequence designed to familiarize the student with various internal medicine problems. Foundations in gastroenterology, nephrology, ophthalmology, and ENT (Ear, Nose, Throat) disorders needed for Physician assistant clinical practice. Each section will begin with a brief overview of the pertinent anatomy and physiology. Each disease entity will be considered in terms of etiology, pathophysiology, clinical presentation, diagnostics, patient education, treatment and referral. Preq: All prerequisites required for admission to the PA program and official acceptance into the program. 2 hours lecture, 2 hours recitation.

HPPA544 (Not Liberal Arts) Primary Care 45 hrs. 3 crs. Adult ambulatory medicine with an emphasis on urban health care. This course will take a problem-based approach to the diagnosis, treatment and continuing management of common outpatient complaints using evidence based medicine. The latter part of the course will deal with special concerns of geriatric patients. Preq: All prerequisites required for admission to the PA program and official acceptance into the program. 3 hours lecture.

HPPA546 (Not Liberal Arts) Clinical Medicine III 60 hrs. 2 crs. Third of a three-course sequence designed to familiarize the student with various internal medicine problems. Foundations in rheumatology, neurology, infectious disease and genetics for Physician Assistant clinical practice. Includes brief overviews of the

pertinent anatomy and physiology. Each disease entity is considered in terms of etiology, pathophysiology, clinical presentation, diagnostics, patient education, treatment and referral. Preq: All prerequisites required for admission to the PA program and official acceptance into the program. 2 hours lecture, 2 hours recitation.

HPPA548 (Not Liberal Arts) Pharmacology III 45 hrs. 3 crs. A continuation of Pharmacology II; further exploration of pharmacologic principles as they apply to future prescriptive practice as a Physician Assistant. Preq: All prerequisites required for admission to the PA program and official acceptance into the program. 3 hours lecture.

HPPA550 (Not Liberal Arts) Psychiatry 30 hrs. 2 crs. Introduction 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: All prerequisites required for admission to the PA program and official acceptance into the program. 2 hours lecture.

HPPA552 (Not Liberal Arts) Clinical Correlations Seminar II 30 hrs. 1 crs. Continuation of Clinical Problem Solving I, utilizes increasingly complex multi-system clinical case scenarios. 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. Emphasizes differential diagnosis, diagnosis and treatment of diseases commonly seen in urban health care settings. Incorporates evidence based medicine techniques. Preq: All prerequisites required for admission to the PA program and official acceptance into the program. 2 hours laboratory.

HPPA554 (Not Liberal Arts) Emergency Medicine 45 hrs. 3 crs. Fundamentals of care for clinical problems seen in the emergency setting. Emphasizes problems commonly seen in an urban emergency room. Preq: All prerequisites required for admission to the PA program and official acceptance into the program. 3 hours lecture.

HPPA556 (Not Liberal Arts) Clinical Skills 45 hrs. 1 crs. Practical sessions introducing basic skills necessary for clinical practice as a physician assistant. Includes instruction in electrocardiography, suturing and casting/splinting. Preq: All prerequisites required for admission to the PA program and official acceptance into the program. 1 hour lecture, 2 hours laboratory.

HPPA600 (Not Liberal Arts) PA-Portfolio I 30 hrs. 2 crs. First of a series, runs concurrently with clinical rotations to facilitate the design and development of an electronic portfolio demonstrating integrative learning, professional development and evidence-based critical thinking. Selected assignments require appropriate electronic documentation of learning activities and experiences pertaining to self-assessment, intellectual inquiry, and professional skill development. Preq: All prerequisites required for admission to the PA program and official acceptance into the program. This course is offered as a fully online asynchronous course.

HPPA610 (Not Liberal Arts) PA-Portfolio II 30 hrs. 2 crs. Second of a series, runs concurrently with clinical rotations to facilitate the design and development of an electronic portfolio demonstrating integrative learning, professional development and evidence-based critical thinking. Selected assignments require appropriate electronic documentation of learning activities and experiences pertaining to self-assessment, intellectual inquiry, and professional skill development. Preq: All prerequisites required for admission to the PA program and official acceptance into the program. This course is offered as a fully online asynchronous course.

HPPA620 (Not Liberal Arts) PA-Portfolio III 30 hrs. 2 crs. Third and final in a series, runs concurrently with clinical rotations to facilitate the design and development of an electronic portfolio demonstrating integrative learning, professional development and evidence-based critical thinking. Selected assignments require

appropriate electronic documentation of learning activities and experiences pertaining to self-assessment, intellectual inquiry, and professional skill development. Preq: All prerequisites required for admission to the PA program and official acceptance into the program. This course is offered as a fully online asynchronous course.

HPPA650 (Not Liberal Arts) Surgery Clinical Rotation 5 week clinical rotation hrs. 2 crs. This five-week rotation takes place in an inpatient hospital setting and also includes outpatient surgical clinic duties. This rotation will provide the student with the opportunity to acquire skills and knowledge necessary to diagnose and treat patients with surgical problems. Under the supervision of a preceptor, students will progressively assume responsibility to provide surgical services. Students are required to attend available conferences/lectures, participate in daily rounds and take call when scheduled. Preq: All prerequisites required for admission to the PA program and official acceptance into the program.

HPPA652 (Not Liberal Arts) Internal Medicine Clinical Rotation 5 Week Clinical Rotation hrs. 2 crs. This five-week rotation takes place in a hospital setting and may include outpatient medical clinic duties. This rotation will provide the student with the opportunity to acquire skills and knowledge necessary to diagnose and treat patients with medical problems. Under the supervision of a preceptor, students will progressively assume responsibility to provide medical services. Students are required to attend available conferences/lectures, participate in daily rounds and take call when scheduled. Preq: All prerequisites required for admission to the PA program and official acceptance into the program.

HPPA654 (Not Liberal Arts) Pediatric Clinical Rotation 5 Week Clinical Rotation hrs. 2 crs. This five-week rotation takes place in an inpatient and/or outpatient pediatric department/clinics/office setting(s). This rotation will provide the student with the opportunity to acquire skills and knowledge required to care for pediatric patients. Under the supervision of a preceptor, students will progressively assume responsibility to provide pediatric services. Students are required to attend available conferences/lectures, participate in daily rounds (if performed at the rotation site) and take call when scheduled. Preq: All prerequisites required for admission to the PA program and official acceptance into the program.

HPPA656 (Not Liberal Arts) Emergency Medicine Clinical Rotation 5 Week Clinical Rotation hrs. 2 crs. This five-week rotation takes place in the hospital emergency department. This rotation will provide the student with the opportunity to acquire skills and knowledge necessary to diagnose and treat patients with emergency and urgent medical problems. Under the supervision of a preceptor, students will progressively assume responsibility to provide emergency medical services. Students are required to attend available conferences/lectures, and work the day, evening, night or weekend shift as assigned. Preq: All prerequisites required for admission to the PA program and official acceptance into the program.

HPPA658 (Not Liberal Arts) Long Term Care Clinical Rotation 5 Week Clinical Rotation hrs. 2 crs. This five-week rotation takes place in nursing homes, specialized geriatric facilities, and chronic care facilities. This rotation provides the student with the opportunity to acquire the skills and knowledge necessary to diagnose and treat elder patients with medical, functional and social/family support problems. In addition, younger patients with chronic conditions requiring long term care may also be cared for. Students are required to attend available conferences/lectures, participate in daily rounds and take call when scheduled. Preq: All prerequisites required for admission to the PA program and official acceptance into the program.

HPPA660 (Not Liberal Arts) Psychiatry Clinical Rotation 5 Week Clinical Rotation hrs. 2 crs. This five-week rotation takes place in a psychiatric hospital, hospital psychiatric department or clinic setting.

This rotation will provide the student with the opportunity to acquire skills and knowledge necessary to diagnose and treat patients with psychiatric and behavioral problems. Students are required to attend available conferences/lectures and participate in daily patient care as a member of the mental health care team and work the day, evening, night or weekend shift as assigned. Preq: All prerequisites required for admission to the PA program and official acceptance into the program.

HPPA662 (Not Liberal Arts) Obstetrics/Gynecology Clinical Rotation 5 Week Clinical Rotation hrs. 2 crs. This five-week rotation takes place in a hospital setting and may include outpatient clinic duties. This rotation will provide the student with the opportunity to acquire skills and knowledge necessary to diagnose and treat female patients presenting for obstetrical and/or gynecological medical care. Students are required to attend available conferences/lectures, participate in daily rounds and take call when scheduled. Preq: All prerequisites required for admission to the PA program and official acceptance into the program.

HPPA664 (Not Liberal Arts) Ambulatory Care Clinical Rotation 5 Week Clinical Rotation hrs. 2 crs. This five-week rotation takes place in an outpatient ambulatory care setting such as an outpatient clinic or physician office. This rotation will provide the student with the opportunity to acquire skills and knowledge necessary to diagnose and treat adult patients presenting with primary care medical problems. Students are required to attend available conferences/lectures, and take call when scheduled. Preq: All prerequisites required for admission to the PA program and official acceptance into the program.

HPPA668 (Not Liberal Arts) Family Practice Clinical Rotation 5 Week Clinical Rotation hrs. 2 crs. This five-week rotation takes place in an outpatient ambulatory care setting such as an outpatient clinic or physician office. This clinical rotation will provide the students with the opportunity to acquire skills and knowledge necessary to diagnose and treat patients of all ages presenting with primary care medical problems. Students are required to attend available conferences/lectures, participate in daily rounds and take call when scheduled. Preq: All prerequisites required for admission to the PA program and official acceptance into the program.

Health Science

HS105 (Not Liberal Arts) Medical Terminology 2 hrs. 2 crs. 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. This course may be offered in a face-to-face, hybrid or asynchronous online format.

HS201 (Not Liberal Arts) \$ Health Informatics 4 hrs. 3 crs. 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 or HE 201. This course may be offered in a face-to-face or hybrid format.

HS211 (Not Liberal Arts) Marketing in Health Care 3 hrs. 3 crs. 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 or HE 201. This course may be offered in a face-to-face or hybrid format.

HS302 (Not Liberal Arts) Health Policy 3 hrs. 3 crs. 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 or HE 201; HPGC 102 or HE 312.

HS303 (Not Liberal Arts) Nursing Home Administration 3 hrs. 3 crs. This course is designed to provide students with an introduction to the role of the administrator within a nursing home or long-term care facility. The course includes an overview of long-term care, an examination of the regulations and legislation influencing long-term care, an analysis of the various administrative functions, and a synopsis of the residents and type of care they receive. Preq: 1. HPGC 101 or HE 201. 2. HPGC 102 or HE 312. 3. GERO 101. This course may be offered in a face-to-face or asynchronous online format.

HS401 (Not Liberal Arts) \$ Field-based Experience in Health Sciences 11 hrs. 4 crs. 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. Supervised fieldwork experience will take place in an approved public or private agency, health care or college/university settings. Students must log 120 hours in an off-campus health science internship setting. Preq: WRIT 301 OR 302, OR 303 OR 304. Coreq: 1. HS 303 2. HS 302. 3 hours lecture, 8 hours field experience. This is a Writing Intensive course.

HS402 (Not Liberal Arts) \$ Supervised Field Experience in Health Science 25 hrs. 4 crs. The supervised field experience (practicum) is a component of the capstone experience and is required of all B.S. of Health Science students. The experience provides the student with a practical experience in a health care management, administrative, or clinical setting requiring the student to apply and integrate the skills and knowledge learned during their undergraduate study. Students must log a minimum of 360 hours in an off-campus health science internship setting. Preq: HS 401. 1 hour lecture, 24 hours field experience.

Physician Assistant

HSPA301 (Not Liberal Arts) Pharmacology I 3 hrs. 2 crs. 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 (Not Liberal Arts) Pharmacology II 3 hrs. 2 crs. Further exploration of pharmacological principals as they apply to future prescriptive practice as a physician assistant. Preq: Permission of physician assistant faculty.

HSPA304 (Not Liberal Arts) Interviewing and Counseling 1 hrs. 1 crs. Analysis of health professional-patient interactions. Psychosocial factors impacting physical and emotional health. Preq: Permission of physician assistant faculty.

HSPA305 (Not Liberal Arts) Physician Assistant Profession 2 hrs. 1 crs. 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 (Not Liberal Arts) \$ Clinical Skills 3 hrs. 1 crs. 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 (Not Liberal Arts) Diagnostic Studies 3 hrs. 2 crs. 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 (Not Liberal Arts) \$ Clinical Anatomy 5 hrs. 3 crs. 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 (Not Liberal Arts) Microbiology & Immunology 2 hrs. 1 crs. Pathogenic bacteria, fungi, protozoa, viruses, rickettsiae and helminthes are considered with regard to human disease manifestations, host-parasite relationships, antimicrobial agents, other treatments and control. Preq: All prerequisites required for admission into the PA Program and official acceptance into the program.

HSPA357 (Not Liberal Arts) Pathology 3 hrs. 3 crs. Introduction to the study of human pathophysiology as the foundation of clinical medicine. Preq: Permission of physician assistant faculty.

HSPA401 (Not Liberal Arts) \$ Physical Diagnosis I 5 hrs. 3 crs. 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 (Not Liberal Arts) \$ Physical Diagnosis II 5 hrs. 3 crs. 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 (Not Liberal Arts) Psychosocial Dynamics 1.5 hrs. 1 crs. 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 (Not Liberal Arts) Internal Medicine I 6 hrs. 2 crs. 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 (Not Liberal Arts) Internal Medicine II 6 hrs. 2 crs. Second of a two-course sequence designed to familiarize the student with various internal medicine problems. Preq: Permission of physician assistant faculty.

HSPA425 (Not Liberal Arts) Clinical Correlations 2.5 hrs. 1 crs. 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 (Not Liberal Arts) Primary Care I 3 hrs. 2 crs. 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 (Not Liberal Arts) Primary Care II 4 hrs. 1 crs. 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 (Not Liberal Arts) Emergency Medicine 3 hrs. 1 crs. 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.

HSPA449 (Not Liberal Arts) Surgery 4 hrs. 2 crs. 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 (Not Liberal Arts) \$ Surgical Clinical Rotation 40 hrs. 1 crs. This five-week rotation takes place in a inpatient hospital setting and also includes outpatient surgical clinic duties. Preq: Permission of physician assistant faculty.

HSPA451 (Not Liberal Arts) \$ Internal Medicine Clinical Rotation 40 hrs. 1 crs. This five-week rotation takes place in a hospital setting. Preq: Permission of physician assistant faculty.

HSPA452 (Not Liberal Arts) \$ Pediatrics Clinical Rotation 40 hrs. 1 crs. 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 (Not Liberal Arts) \$ Emergency Medicine Rotation 40 hrs. 1 crs. This five-week rotation takes place in the hospital emergency department. Preq: Permission of physician assistant faculty.

HSPA454 (Not Liberal Arts) \$ Long Term Care Rotation 40 hrs. 1 crs. This five-week rotation takes place in nursing homes, specialized geriatric facilities, and chronic care facilities. Preq: Permission of physician assistant faculty.

HSPA455 (Not Liberal Arts) \$ Psychiatry Rotation 40 hrs. 1 crs. This five-week rotation takes place in a psychiatric hospital, hospital psychiatric department or clinic setting. Preq: Permission of physician assistant faculty.

HSPA457 (Not Liberal Arts) \$ Obstetrics and Gynecology Clinical Rotation 40 hrs. 1 crs. 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 (Not Liberal Arts) \$ Family Medicine Clinical Rotation 5 hrs. 1 crs. 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 (Not Liberal Arts) \$ Ambulatory Care Clinical Rotation 5 hrs. 1 crs. 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. Coreq: HSPA 428 and Department permission required. 5-week full-time Clinical Clerkship.

Humanities

HUM101 (Liberal Arts) American Tradition of Social Change 3 hrs. 3 crs. 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.

HUM105 (Liberal Arts) The Changing Depiction of the Family in American Popular Culture 3 hrs. 3 crs. This course considers the changes in the structure(s) and function(s) of the American family from the mid-20th Century to the present, and examines the evolving representations of the family in American film and television. [Flexible Core: U.S. Experience in its Diversity]

HUM110 (Liberal Arts) Introduction to Film Studies 3 hrs. 3 crs. This course serves as an introduction to the academic study of film. It is designed to help students analyze, discuss, and write insightfully about cinema, and to help students understand the requirements, methods, limitations, terminology, and properties of film. Various theoretical approaches to film will be taught. Preq: ENG 125.

HUM200 (Liberal Arts) Introduction to Intercultural Communication 3 hrs. 3 crs. This course explores issues related to the intercultural communication process. It examines the important role of social, cultural, and historical context in human interactions. [Flexible Core: World Cultures and Global Issues]

HUM202 (Liberal Arts) Introduction to Linguistics 3 hrs. 3 crs. Practical introduction to general and historical linguistics. Preq: ENG 125. [Flexible Core: Scientific World]

HUM203 (Liberal Arts) Tradition and Innovation in the Twentieth Century 6 hrs. 6 crs. 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 crs. 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 crs. The flowering of individualism in the 15th and 16th centuries; history, the arts, literature and philosophy interrelated. Preq: ENG 125 and Sophomore status. Not open to students with credit in HIST 343. Not offered on a regular basis. Availability to be determined by the department. History majors may credit 3 of the 6 credits toward major requirements.

HUM206 (Liberal Arts) Judaism I Aspects and Trends from the Beginning to the Middle Ages 3 hrs. 3 crs. 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 crs. 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 crs. 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. This course may be offered in a face-to-face, hybrid, or asynchronous online format. Preq: ENG 125. This is a Writing Intensive course. [Flexible Core: Individual and Society]

HUM210 (Liberal Arts) Language Development 3 hrs. 3 crs. This course considers the stages of first language acquisition in developing children. Students will explore the dominant theories of language acquisition, including sociolinguistic, psycholinguistic, and behavioral. The relationship between orality and literacy and between bi-dialectalism, and bilingualism will also be investigated. [Flexible Core: Individual and Society] Preq: ENG 125. [Flexible Core: Individual and Society]

HUM219 (Liberal Arts) Introduction to Second Language Acquisition 3 hrs. 3 crs. 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. This is a Writing Intensive course.

HUM221 (Liberal Arts) Pictures of Italy: A Journey into Modern and Contemporary Italy through Film 3 hrs. 3 crs. A portrait of the recent history of Italy, as well as related aspects of Italian socio-economic development from the Fifty'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. Preq: ENG 125. This course is a Writing Intensive course; students will write and draft at least 10 pages. This course may be offered in a hybrid or online format. [Flexible Core: Creative Expression]

HUM222 (Liberal Arts) Gender and Film 3 hrs. 3 crs. This course considers a variety of genders as they relate to film: sexism and film production, the representation of women and sexual minorities in film, and feminist/queer film theory.

HUM224 (Liberal Arts) Cinematic Adaptation 3 hrs. 3 crs. 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 the playwright will be considered. Preq: ENG 125. This course may be offered in a face-to-face, hybrid or asynchronous online format. This is a Writing Intensive course. [Flexible Core: Creative Expression]

HUM225 (Liberal Arts) The Jewish People in the Greco-Roman World: 333 B.C. to 476 A.D. 3 hrs. 3 crs. 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 Septuagent 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 crs. 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 crs. 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.

HUM240 (Liberal Arts) Food is Culture: The Success of 'Made in Italy' 3 hrs. 3 crs. From the frugality of the Etruscan table to today's slow food movement, food and culinary have played a fundamental role in the development of Italian culture. The course examines food from historical, political, economic, and culinary perspectives, exploring how and why "Made in Italy" is greatly appreciated abroad. The course analyzes works of literature, art, film, magazines and cookbooks dealing with food and the development of what is an expressly Italian food culture. Preq: ENG 125. Coreq: ENG 125. This course can be offered as a face-to-face course, a hybrid course, or as a fully online asynchronous course. [Flexible Core: World Cultures and Global Issues]

HUM245 (Liberal Arts) Fashion, Italian Style 3 hrs. 3 crs. The course traces the birth, evolution, and most recent developments of Italian fashion exploring the how and why the "Made in Italy" design is greatly appreciated abroad. Italian fashion styles are analyzed in relation to art history and their connections with Italian culture and traditions, race and ethnicity, class and gender. Preq: ENG 125. Coreq: ENG 125. This is a Writing Intensive course. This course may be offered in a face-to-face, hybrid or asynchronous online format. [Flexible Core: Creative Expression]

HUM250 (Liberal Arts) The Italian Experience in the United States 3 hrs. 3 crs. 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 is a Writing Intensive course; students will draft and revise at least 10 pages during the semester. This course can be offered as a face-to-face course, a hybrid course, or as a fully online asynchronous course. [Flexible Core: U.S. Experience in its Diversity]

HUM251 (Liberal Arts) Asian American Experience 3 hrs. 3 crs. 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 crs. This course will examine the political, social, institutional and religious development of American Jewry from the Colonial period to the present. Preq: ENG 125. [Flexible Core: U.S. Experience in its Diversity]

HUM253 (Liberal Arts) The Haitian Experience in the USA 3 hrs. 3 crs. 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. This is a Writing Intensive course. [Flexible Core: U.S. Experience in its Diversity]

HUM257 (Liberal Arts) The French: People, Language, and Culture 3 hrs. 3 crs. 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 crs. 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. This course can be offered as a face-to-face course, a hybrid course, or as a fully online asynchronous course. [Flexible Core: Creative Expression]

HUM265 (Liberal Arts) People of the Renaissance: The Golden Age of Italy 3 hrs. 3 crs. The cultural awakening that characterized the Renaissance from its origins is above all a renewed affirmation of the human being and human values various fields, from arts to civil life. The course explores the Italian Renaissance through its characterizing major figures: Michelangelo, Leonardo da Vinci, Machiavelli, Lorenzo de' Medici, Lucrezia Borgia, Artemisia Gentileschi, etc. [Flexible Core: Individual and Society]

HUM272 (Liberal Arts) The Latino Experience in the U.S. 3 hrs. 3 crs. 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 crs. 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 crs. 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 crs. 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 crs. 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 Humanities 3 hrs. 3 crs. 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.

HUM295 (Liberal Arts) Ancient Greek and Latin in English Today 3 hrs. 3 crs. Ancient Greek and especially Latin remain an essential piece of our linguistic experience. Not only they provide the roots, prefixes, and suffixes for a large number of English words, but they also supply phrases and mottoes commonly used today. A conscious knowledge of Greek and Latin's living presence in English is a great benefit to the study of many professional fields (sciences, law, medicine, etc.), expands English vocabulary, and improves comprehension and use of English grammar. No prior acquaintance with Ancient Greek and Latin is assumed or required. Preq: ENG 125.

HUM300 (Liberal Arts) The Nature of Human Communication 3 hrs. 3 crs. 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.

HUM302 (Liberal Arts) Women's Studies I 3 hrs. 3 crs. 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. This is a Writing Intensive Course. This course may be offered in a face-to-face, hybrid or asynchronous online format.

HUM303 (Liberal Arts) Women's Studies II 3 hrs. 3 crs. 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 society. Preq: ENG 125. This course is a Writing Intensive Course. This course may be offered in a face-to-face, hybrid or asynchronous online format.

HUM304 (Liberal Arts) Gender Dynamics in the Twentieth Century 3 hrs. 3 crs. 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 societies as reflected in diverse works created by and about women. The intersection of gender, ethnicity, race and class will be examined. This course may be offered in a face-to-face, hybrid, or asynchronous online format. Preq: ENG 125. This course may be offered in a face-to-face or hybrid format. [Flexible Core: Individual and Society]

HUM305 (Liberal Arts) The Language of Food 3 hrs. 3 crs. This course explores the relationship between food and language. The vocabulary of food and prepared dishes, the historical origins of eating and drinking words, their forms and meanings, and their relationship to cultural and social variables are illustrated and analyzed. Social and cognitive issues in food advertising and in the language of menus are also investigated. Oral presentations may be required. This course can be offered as a face-to-face course or as a fully online asynchronous course.

HUM307 (Liberal Arts) Latin American Film 3 hrs. 3 crs. This course is a historical survey of artistic, technological, and industrial developments of cinema in Latin America. The films screened are representative of major developments in Latin American film history: technological, aesthetic, industrial and sociocultural. Through readings and screenings, the student considers such topics as: major genres and their relation to Latin American attitudes and values, the work of the great Latin American film directors, and the historical role of films. Preq: ENG 125; Department permission required. This course may be offered in a face-to-face, hybrid or asynchronous online format. This course is cross-listed with SPAN 307. Not open to students with credit in SPAN 307.

HUM308 (Not Liberal Arts) Natural Language Processing I 3 hrs. 3 crs. This course is an introduction to both the theory and applied methods of natural language processing. Students will learn some of the basic algorithms of natural language processing and will implement some of these algorithms in a scripting language. Topics will include: regular expressions, transducers, probabilistic models of pronunciation and spelling, and various methods for predicting the next word. Methods of computer science, mathematics and linguistics will be used. Preq: CS 291 or department permission. Coreq: HUM 202.

HUM310 (Liberal Arts) Prejudice Viewed Existentially 3 hrs. 3 crs. 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 crs. Selected advanced topics will be explored from an interdisciplinary perspective. Students will read from the original source in each discipline covered in the course and synthesize the material through class discussion, written assignments, and oral presentations. Preq: Membership in the York College Honors Program or permission of the instructor. This course may be repeated for no more than 9 credits if different topics are studied. The topic varies with each offering.

HUM350 (Liberal Arts) Italian Culture and Civilization 3 hrs. 3 crs. 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. This course can be offered as a face-to-face, a hybrid course, or as a fully online asynchronous course. [Flexible Core: World Cultures and Global Issues]

Interdisciplinary Studies

IS400 (Liberal Arts) Senior Seminar 3 hrs. 3 crs. 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. Open to Seniors Only. This is a Writing Intensive course.

Italian

ITAL101 (Liberal Arts) Elementary Italian I 4 hrs. 3 crs. Basic principles of a beginner's course designed to give the foundation for understanding, speaking, reading and writing the language; study of simple syntax. This course can be offered as a face-to-face course, a hybrid course, or as a fully online asynchronous course. Not open to students with credit in ITAL 110 or 113. 2 hrs recitation, 2 hrs laboratory.

ITAL102 (Liberal Arts) Elementary Italian II 4 hrs. 3 crs. Continuation of the beginners' course; integrated reading and further practice in conversation. Preq: ITAL 101 or 110 or 113 or by department placement. This course can be offered as a face-to-face course, a hybrid course, or as a fully online asynchronous course. Not open to students with credit in ITAL 114. 2 hrs recitation, 2 hrs laboratory.

ITAL104 (Liberal Arts) Rapid Review of Basic Italian 3 hrs. 3 crs. 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 credited toward fulfillment of Italian Major. Not open to students with credit in ITAL 105 or above. Not offered on a regular basis. Availability to be determined by the department.

ITAL105 (Liberal Arts) Intermediate Italian I 3 hrs. 3 crs. Intensive oral-aural practice based on selected readings; more complex grammatical structures. Preq: ITAL 102 or ITAL 114 or placement by department. This course can be offered as a face-to-face course, a hybrid course, or as a fully online asynchronous course.

ITAL106 (Liberal Arts) Intermediate Italian II 3 hrs. 3 crs. Intensive oral-aural practice based on literary texts. Preq: ITAL 105. Not offered on a regular basis. Availability to be determined by the department.

ITAL110 (Liberal Arts) Intensive Elementary Italian for Health Professions 4 hrs. 3 crs. Proficiency-oriented intensive beginner's course in Italian, 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: Departmental permission required. This course may be used to fulfill the College Option Requirement in Foreign Languages only for students in Health Professions programs. Students who switch from Health Professions to another major will have to take ITAL 102 or a higher course in Italian. This course can be offered as a face-to-face course or as a fully online asynchronous course. Not open to students with credits in ITAL 101 or 113. 2 hours lecture, 2 hours laboratory.

ITAL113 (Liberal Arts) Elementary Italian I 3 hrs. 3 crs. 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 crs. Continuation of the beginners' course; more complex grammatical structures; integrated reading and further practice in conversation. Preq: ITAL 101 or ITAL 113. Not open to students with credit in ITAL 102. Not offered on a regular basis. Availability to be determined by the department. Courses numbered 200 and above are normally conducted entirely in Italian, except when otherwise indicated.

ITAL200 (Liberal Arts) Commercial Italian I 3 hrs. 3 crs. 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.

ITAL201 (Liberal Arts) Guided Study in Italian Language 3 hrs. 3 crs. Independent study of selected elements of Italian Language with special emphasis on contrastive analysis, under the supervision and guidance of the Italian faculty. Hours arranged. Not offered on a regular basis. Availability to be determined by the department. Preq: ITAL 102 or permission of instructor. Coreq: ITAL 102 or permission of instructor.

ITAL207 (Liberal Arts) Historical Survey of Italian Literature I: From its Origin to Mid-Sixteenth Century 3 hrs. 3 crs. 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 crs. 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.

ITAL209 (Liberal Arts) Historical Survey of Italian Literature III: From Mid-Nineteenth Century to the Present 3 hrs. 3 crs. Italian literature of Realism, Futurism, Surrealism, Neo-Realism, and Existentialism. Preq: 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 crs. 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. Preq: 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 crs. Discussions conducted in Italian; intended to give language fluency with emphasis on the language used in daily conversation. Preq: 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 crs. 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. Preq: 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 crs. Composition and thorough review of grammar; written and oral work based on readings of representative modern authors. Preq: 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 crs. Composition based on readings of representative modern authors; emphasis on syntax and style. Preq: 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 crs. 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. Preq: 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 crs. Continuation of Italian 240; more extensive translation of commercial, journalistic, literary, and scientific texts. Preq: 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 crs. Representative works from the teatro sacro of the 13th century to Alfier's Tragedies; particular attention given to the commedia dell'arte. Preq: 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 crs. The evolution of Renaissance literary genres: the epic, lyric poetry, and drama. Preq: 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 crs. From the teatro verista of the 19th century to the plays of Pirandello and other major Italian dramatists. Preq: 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 crs. 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. Preq: 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 crs. Representative 19th century Italian novels from Foscolo to Verga. Preq: 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 crs. Representative 20th century Italian novels from D'Annunzio to Bevilacqua. Preq: 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 crs. Analysis of representative 19th century Italian poetry. Preq: 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 crs. Analysis of representative 20th century Italian poetry. Preq: 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 crs. A close examination of Dante's Inferno with some consideration of Vita Nuova; particular attention to allegory, symbolism, and structure. Preq: 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 crs. The lyric poetry of Petrarch's Canzoniere and the novella from its origin to Boccaccio's Decameron. Preq: ITAL 106 or permission of instructor. Not offered on a regular basis. Availability to be determined by the department.

ITAL317 (Liberal Arts) Dante's Divine Comedy II: Purgatorio 3 hrs. 3 crs. 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 crs. 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 crs. 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.

ITAL356 (Liberal Arts) A Major Italian Author in Translation 3 hrs. 3 crs. A major Italian author such as Pirandello, Boccaccio, or Machiavelli. Author announced each semester. Can be repeated for credit. Not offered on a regular basis. Availability to be determined by the department.

ITAL400 (Liberal Arts) Individual Study TBA hrs. 3 crs. 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 (Not Liberal Arts) Seminar in Italian Literature 3 hrs. 3 crs. 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.

JOUR280 (Liberal Arts) Introduction to Journalism 3 hrs. 3 crs. Introduction to the basics of hard news writing and reporting; writing balanced, high-impact news pieces. The fundamentals of newspaper editing and production. Preq: ENG 125. Not open to students with credit in ENG 280. This is a Writing Intensive course.

JOUR281 (Liberal Arts) Introduction to Feature Writing 3 hrs. 3 crs. 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. Not open to students with credit in ENG 281. This is a Writing Intensive course. [Flexible Core: Creative Expression]

JOUR282 (Liberal Arts) Introduction to Writing Broadcast News 3 hrs. 3 crs. 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. Not open to students with credit in ENG 282. This course may be offered in a face-to-face or hybrid online format.

JOUR284 (Liberal Arts) Social Justice Journalism 3 hrs. 3 crs. This course explores how journalism shaped the major developments in social justice movements in the United States throughout the country's history from the 18th through the early 21st centuries. Preq: ENG 125. [Flexible Core: U.S. Experience in its Diversity]

JOUR285 (Liberal Arts) Basics of Online Journalism 3 hrs. 3 crs. Introduction to the fundamentals of practicing Journalism online in an environment that encourages a multimedia presentation of content. Preq: ENG 125. Not open to students with credit in ENG 380. This course may be offered in a face-to-face or hybrid online format.

JOUR321 (Liberal Arts) Editorial Writing, Commentary, and Criticism 3 hrs. 3 crs. 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 crs. 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.

JOUR381 (Liberal Arts) Investigative and In-Depth Reporting 3 hrs. 3 crs. 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 or JOUR 281 or ENG 281. Not open to student with credit in ENG 381.

JOUR382 (Liberal Arts) Non-Fiction Book Writing 3 hrs. 3 crs. 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. Not open to students with credit in ENG 382.

JOUR383 (Liberal Arts) Beat Reporting and Community News Coverage 3 hrs. 3 crs. 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-

Journalism

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.

JOUR384 (Liberal Arts) Journalism Literature 3 hrs. 3 crs. 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. Preq: JOUR 281 or ENG 281 or JOUR 280 or ENG 280.

JOUR385 (Not Liberal Arts) Essentials of Editing 3 hrs. 3 crs. 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. Preq: JOUR 280 or JOUR 281. This is a Writing Intensive course.

JOUR387 (Liberal Arts) Journalism Ethics and Legal Issues 3 hrs. 3 crs. 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. Preq: JOUR 280 or JOUR 281 or ENG 280 or ENG 281.

JOUR388 (Liberal Arts) Digital Photojournalism 3 hrs. 3 crs. Introduction to the principles and theories of photojournalism in a filmless environment. After reviewing SLR digital camera techniques, 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. Preq: JOUR 280 or JOUR 281.

JOUR389 (Liberal Arts) Advanced Reporting and Writing for Broadcast News 3 hrs. 3 crs. 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. Preq: JOUR 282 or ENG 282.

JOUR399 (Liberal Arts) Special Topics in Journalism 3 hrs. 3 crs. A selected topic in Journalism. Preq: JOUR 280 or JOUR 281 or JOUR 282. Departmental Permission Required. The topic varies with each offering. This course may be repeated for no more than 6 credits if different topics are studied.

JOUR481 (Not Liberal Arts) Journalism Fieldwork I 2 hrs. 3 crs. Students work as interns for a professional media company in either print, broadcast, online, or publishing fields. This course is required to complete a Journalism degree. 2 hours lecture plus a minimum of 105 hours of work experience per semester. Preq: Senior status; completion of 27 credits in the major; and Department permission required. 2 hours lecture, 7 hours fieldwork.

JOUR483 (Not Liberal Arts) Journalism Fieldwork II 2 hrs. 3 crs. Students work a second internship for a professional media company in either print, broadcast, online or publishing fields. 2 hours lecture plus a minimum of 105 hours of work experience per semester. Preq: JOUR 481.

JOUR498 (Liberal Arts) Independent Study TBA hrs. 3 crs. Completion of a substantial, supervised, individual project within a specialized area of Journalism. Preq: Permission of instructor and department.

Mathematics Education

MAED572 (Not Liberal Arts) Advanced Methods in High School Math Instruction 7 hrs. 4 crs. 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. Not offered on a regular basis. Availability to be determined by the department.

MAED573 (Not Liberal Arts) Field Activities in Math Education 6 hrs. 2 crs. 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: 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 crs. 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. Preq: By placement. May not be used to meet General Education Requirements. Not credited toward fulfillment of mathematics major requirements.

MATH104 (Liberal Arts) College Algebra 4 hrs. 3 crs. 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. Preq: By placement. Coreq: By placement. Not to be used to satisfy the general education requirement and not to be used to satisfy the requirement for mathematics major.

MATH111 (Liberal Arts) Introduction to Statistics and Probability 4 hrs. 4 crs. Elements of statistics, graphs, frequency distributions, measures of central tendency and measures of dispersion; elementary probability theory, counting, binomial and normal distributions. Preq: MATH 102, the equivalent, or placement exam. Not credited toward fulfillment of Mathematics major requirements. [Required Core: Mathematical and Quantitative Reasoning].

MATH115 (Liberal Arts) Quantitative Methods for Decision Making 4 hrs. 4 crs. Functions, systems of linear equations, matrices, elementary linear programming; elementary calculus; mathematics of finance; and related topics. Preq: MATH 102, the equivalent, or placement examination. Not credited toward fulfillment of Mathematics major requirements. Not open to students with credit in MATH 221. [Required Core: Mathematical and Quantitative Reasoning]

MATH117 (Liberal Arts) Mathematics for Social Justice 3 hrs. 3 crs. Application of mathematics to issues of social justice highlighting mathematical reasoning and problem solving. Mathematics content

may include applications of linear and quadratic functions, proportional reasoning, election theory, introductory graph theory, visual representations of data, measures of compactness, compound interest, and fair division. Social justice issues include distribution of wealth, and resources; environmental justice; access and equity in education, healthcare, etc. and representation in industry, government, the criminal justice system, etc.

MATH119 (Liberal Arts) Computer Algebra System 1 hrs. 1 crs. An introduction to computer algebra systems such as Maple, Mathematica or MATLAB. Basic functions of the system will be introduced, then they will be used to explore various precalculus topics. Preq: MATH 102. Coreq: MATH 120. This course can be offered as a face-to-face course or as a fully online asynchronous course.

MATH120 (Liberal Arts) Pre-Calculus 4 hrs. 4 crs. Advanced topics in algebra, functions and graphs, inverse functions, composite functions, polynomial and rational functions, trigonometry, exponential and logarithmic functions. Preq: MATH 102 or MATH 104 or MATH 115 or placement by examination. [Required Core: Mathematical and Quantitative Reasoning]

MATH121 (Liberal Arts) Analytic Geometry and Calculus I 4 hrs. 4 crs. An introduction to calculus and analytic geometry; emphasis on theory as well as techniques and applications; functions, limits, differentiation, integration; and graph sketching. Preq: MATH 120 or placement by examination. [Required Core: Mathematical and Quantitative Reasoning]

MATH122 (Liberal Arts) Analytic Geometry and Calculus II 4 hrs. 4 crs. 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.

MATH141 (Liberal Arts) Discrete Mathematics 3 hrs. 3 crs. 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 3 hrs. 3 crs. A survey course for liberal arts students, this course includes selected topics from algebra, geometry and applied mathematics. The beauty, scope, and vitality of mathematics as well as its applicability, and the role of math in the modern world including connections to problems arising in social contexts will be stressed. Not credited toward Mathematics major requirements. Not open to students with credit in MATH 221. [Required Core: Mathematical and Quantitative Reasoning]

MATH190 (Liberal Arts) Computers in Modern Society 4 hrs. 4 crs. Introduction to computer programming, using a modern programming language; 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. Not credited toward fulfillment of Mathematics major requirements. Students are expected to complete several laboratory assignments. [Required Core: Mathematical and Quantitative Reasoning].

MATH201 (Liberal Arts) Statistics for Educators 3 hrs. 3 crs. The application of statistical concepts and techniques to the field of education, specifically the study of teaching and learning at the K-12 level. An overview of quantitative educational research methods, describing distributions, measures of central tendency and variation, z-scores, correlation, prediction, regression, t-test, analysis of variance, chi-squared test, reliability and validity. Abuses of statistics. Students are expected to read, review and critique academic research articles about current topics in K-12 education that rely on quantitative methodologies. Preq: MATH 111 or MATH 210.

MATH210 (Liberal Arts) Probability and Statistics I 4 hrs. 4 crs. 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 crs. 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 crs. 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 and Dynamical Systems 3 hrs. 3 crs. An introduction to differential and difference equations: first order equations; higher order equations with constant coefficients; linear systems; applications. Introduction to dynamical systems, orbits, and chaos, showing the connection with differential equations. Modeling applications. Preq: MATH 221.

MATH225 (Liberal Arts) Discrete Mathematical Structures 4 hrs. 4 crs. 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. 4 hours lecture.

MATH230 (Liberal Arts) Theory of Numbers 4 hrs. 4 crs. 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 and Discrete Geometry 3 hrs. 3 crs. A survey of Euclidean and non-Euclidean geometrical ideas primarily from a non-metric perspective, Axiom systems. Distance functions. Basic topics in the theory of graphs; trees, planarity, networks, coloring problems, and Euler's polyhedral formula. Basic topics in convexity, discrete, and computational geometry: Helly's theorem, curves of constant breadth, the Sylvester-Gallai theorem, and Voronoi diagrams. Preq: MATH 122.

MATH244 (Liberal Arts) Geometric Structures 3 hrs. 3 crs. A survey of Euclidean and non-Euclidean geometrical ideas primarily from a metric point of view. Axiom systems, distance functions, polyhedra and tilings, geodesics, configuration theorems, graphs, and geometry of surfaces. Preq: MATH 122.

MATH245 (Liberal Arts) Geometry and Measurement 3 hrs. 3 crs. An introduction to Euclidean geometry and measurement systems. Circle and triangle theorems, Pythagorean Theorem, Ceva's Theorem, Menelaus' Theorem. Geometric constructions and geometric proofs. Properties of quadrilaterals. Standard and non-standard units of measure. Area and volume. This class will introduce and rely on geometry software especially to aid in geometric constructions and proofs. Preq: MATH 122.

MATH271 (Liberal Arts) Topics in Foundational Mathematics 4 hrs. 4 crs. Mathematical reasoning, problem-solving, elementary theory, structures and concepts of arithmetic, numeration systems, integers, rational and real numbers and number theory. Preq: MATH 102 or by placement. Not credited toward fulfillment of Mathematics major requirements. Not open to students with credit in MATH 122.

MATH272 (Liberal Arts) Topics in Foundational Mathematics II 4 hrs. 4 crs. Basic Algebraic, Statistical and Geometric concepts including but not limited to linear functions and systems, displays of data, measures of central tendency, probability, plane and solid

figures, similarity and congruence, area, surface area, volume and transformations. Preq: MATH 271. Coreq: MATH 102 or pass CUNY math skills test. Not credited toward fulfillment of Mathematics major requirements. Not open to students with credit in MATH 122.

MATH300 (Liberal Arts) Guided Study of Selected Topics in Mathematics (1,0) hrs. 1 crs. 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 (1,0) hrs. 1 crs. Individual study under supervision of mathematics faculty. Preq: Junior status, and permission of department. Hours arranged.

MATH302 (Liberal Arts) Actuarial Mathematics I 1 hrs. 1 crs. Special applications of Calculus and Linear Algebra in Actuarial Science. Preq: MATH 221 and MATH 333. Not credited toward fulfillment of Mathematics major requirements. This course will prepare students to take Actuarial Examination Part I.

MATH303 (Liberal Arts) Actuarial Mathematics II 1 hrs. 1 crs. Special applications of probability theory and statistics in Actuarial Examination Part II. Preq: MATH 210 and MATH 211. Not credited toward fulfillment of Mathematics major requirements.

MATH310 (Liberal Arts) Applied Regression Analysis 4 hrs. 4 crs. Introduce different linear statistical models and develop critical thinking for statistical modeling in STEM (Science, Technology, Engineering and Mathematics), and policy contexts. Apply statistical computer software tools to develop useful data analysis skills based on the use of linear regression models. Topics may include simple linear regression, multiple regression, non-linear regression and logistic regression models, random and mixed effects models, application of statistical software tools. Preq: MATH 210.

MATH311 (Liberal Arts) Mathematical Methods for Physical Science 4 hrs. 4 crs. 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 221. Other selected topics.

MATH313 (Liberal Arts) Operations Research 3 hrs. 3 crs. Linear programming, game theory, decision theory, queuing theory, systems dynamics, network theory. Other related topics in Management and Social Sciences. Preq: MATH 122.

MATH321 (Liberal Arts) Finite Differences and Difference Equations 4 hrs. 4 crs. 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.

MATH322 (Liberal Arts) Quantitative Approaches to Urban Problem Solving 3 hrs. 3 crs. Application of mathematics to urban issues and contexts highlighting mathematical reasoning and problem solving. Mathematics content may include applications of differential and integral calculus, discrete mathematics, graph theory, and combinatorics. Urban issues and contexts may include applications of mathematics to business, economics, transit systems, urban planning, urban design, environmental issues, fair division, and culture. Preq: MATH 122 & MATH 225.

MATH333 (Liberal Arts) Linear Algebra 4 hrs. 4 crs. 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 crs. Introduction to mathematical logic, propositional logic, first order logic, proof systems, introduction to model theory. Preq: MATH 122.

MATH336 (Liberal Arts) Modern Algebra 4 hrs. 4 crs. Axiomatic theory of groups, rings, and fields; isomorphisms and homomorphisms. Examples from the field of real numbers, modular arithmetic, matrices. Coreq: MATH 333.

MATH395 (Liberal Arts) Numerical Analysis 4 hrs. 4 crs. 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 122. Some experience with a Computer Algebra System (CAS) is assumed. Students are expected to complete several laboratory projects.

MATH400 (Liberal Arts) Independent Study of Selected Topics in Mathematics (2,0) hrs. 2 crs. 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 (2,0) hrs. 2 crs. Independent study under supervision of mathematics faculty. Preq: Senior status and permission of department. Hours arranged.

MATH410 (Liberal Arts) Mathematical Modeling 4 hrs. 4 crs. 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 crs. The real and complex number systems; topological concepts; theory of functions, limits, continuity, differentiability; theory of integration; vector calculus; functions of several variables, sequences and series. Other selected topics. Preq: MATH 221.

MATH424 (Liberal Arts) Advanced Calculus II 4 hrs. 4 crs. 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 crs. 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 crs. 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.

MATH479WI (Liberal Arts) History and Philosophy of Mathematics 3 hrs. 3 crs. 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; ENG 126 or any WRIT 300 level course. This is a Writing Intensive course.

MATH481 (Liberal Arts) Seminar in Contemporary Mathematics 1 hrs. 1 crs. 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 crs. 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.]

MATH483 (Liberal Arts) Seminar in Contemporary Mathematics 1 hrs. 1 crs. 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.]

MATH484 (Liberal Arts) Seminar in Contemporary Mathematics 1 hrs. 1 crs. 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.]

MATH485 (Liberal Arts) Seminar in Contemporary Mathematics 1 hrs. 1 crs. 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.]

MATH486 (Liberal Arts) Seminar in Contemporary Mathematics 1 hrs. 1 crs. 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.]

MATH487 (Not Liberal Arts) Seminar in Contemporary Mathematics 1 hrs. 1 crs. 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.]

MATH488 (Liberal Arts) Seminar in Contemporary Mathematics 1 hrs. 1 crs. 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.]

MATH489 (Liberal Arts) Seminar in Contemporary Mathematics 1 hrs. 1 crs. 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.]

MKT344 (Not Liberal Arts) Retail Management 3 hrs. 3 crs. 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.

MKT345 (Not Liberal Arts) Principles of Selling 3 hrs. 3 crs. 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 (Not Liberal Arts) International Marketing 3 hrs. 3 crs. 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 (Not Liberal Arts) Consumer Behavior 3 hrs. 3 crs. 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.

MKT348 (Not Liberal Arts) Service Marketing 3 hrs. 3 crs. This course will provide students insight into managing customer relationships and broaden their understanding of strategies to improve client service. Preq: MKT 341.

MKT349 (Not Liberal Arts) Marketing and Societal Well-being 3 hrs. 3 crs. This course is designed to examine current theory and knowledge in the field of social marketing, and explore marketing's role in solving societal problems. Preq: MKT341 and Junior Status.

MKT350 (Not Liberal Arts) Industrial Marketing 3 hrs. 3 crs. 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 involves in the marketing of U.S. products in the U.S. and overseas. Preq: MKT 341.

MKT351 (Not Liberal Arts) Sales Management 3 hrs. 3 crs. 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 (Not Liberal Arts) Direct Marketing 3 hrs. 3 crs. 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 (Not Liberal Arts) Aviation Marketing and Economics 3 hrs. 3 crs. An examination of the economic principles and marketing practices of the major components of the air transportation industry: Air carriers, aircraft and engine manufacturers, FBOs (fixed-base operators), and support services. Topics include: Load factors, supply and demand, elasticity, fleet selection, scheduling, yield management, cost and market structures, and advertising and promotion strategies. Preq: ECON 102 or Department permission required.

MKT355 (Not Liberal Arts) Digital Marketing 3 hrs. 3 crs. Companies are increasingly focusing on internet in order to interact with customers, utilizing digital marketing strategies through email,

Marketing

MKT341 (Not Liberal Arts) Introduction to Marketing 3 hrs. 3 crs. Introduction to concepts, institutions and policies of distribution; relationships among manufacturers, wholesalers, retailers, and consumers, market research and strategies, advertising, and sales management. Preq: BUS 201. This course can be offered as a face-to-face course, a hybrid course or as a fully online asynchronous.

MKT342 (Not Liberal Arts) Marketing Research 3 hrs. 3 crs. Application of scientific methodology to development and testing of marketing programs. Examination of research tools including questionnaires, sampling, interviewing and report writing. Preq: 1. ECON 220 2. MKT 341.

MKT343 (Not Liberal Arts) Advertising and Public Relations 3 hrs. 3 crs. 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.

social media and/or mobile tools because consumers have a significant voice in digital environment. Due to the great effect of internet on business and marketing; thus, it is important for marketers to understand this phenomenon. This digital marketing course is designed to cover an overview of the digital marketing related concepts and provide students with an introduction to different digital marketing tools to be used such as email/search/social media/mobile, and various issues such as measuring digital marketing effectiveness, privacy and security. Preq: MKT 341.

MKT483 (Not Liberal Arts) Marketing Management 3 hrs. 3 crs. 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. This is a Writing Intensive course. Preq: MKT 341 and MKT 342 and MKT 343 or MKT 347.

MKT490 (Not Liberal Arts) Independent Study in Marketing 3 hrs. 3 crs. In-depth investigation of a marketing problem of the student's choice with faculty approval and guidance. Preq: Junior status and permission of instructor.

Movement Science

MS322 (Liberal Arts) Recreation, Organization and Leadership 3 hrs. 3 crs. The function and organization of recreational services and principles of recreation leadership in the community. Not open to students with credit in PE 322.

MS375 (Liberal Arts) Biomechanics 3 hrs. 3 crs. Mechanical principles and physical laws influencing human movement will be examined, analyzed and assessed. Application of the aforementioned to fitness related exercises and sports performance will be emphasized. Preq: PE 362. This course may be offered in a face-to-face or hybrid format.

MS487 (Liberal Arts) Adult Fitness Programs 3 hrs. 3 crs. Planning, designing, managing, and evaluating adult fitness programs. Preq: Junior status in departmental major. Not open to students with credit in PE 487.

MS488 (Not Liberal Arts) Field Work in Movement Science I 6 hrs. 2 crs. This supervised experience provides the student the opportunity to apply knowledge and skills acquired in the Movement Science program. With guidance from a qualified supervisor and Movement Science faculty, the student engages in activities designed to enhance professional growth. Students will complete 6 hours field experience weekly, accumulating a total of 90 hours of off-campus experiential learning. Preq: 1. PE 358 2. PE 362 3. PE 452 4. Either HE 200 & HE 317 OR proof of valid First Aid and CPR certifications 5. Department permission.

MS489 (Not Liberal Arts) Field Work in Movement Science II 6 hrs. 2 crs. This supervised experience provides the student the opportunity to apply knowledge and skills acquired in the Movement Science program. With guidance from a qualified supervisor and Movement Science faculty, the student engages in activities designed to enhance professional growth. Students will complete 6 hours field experience weekly, accumulating a total of 90 hours of off-campus experiential learning. Preq: 1. PE 358. 2. PE 362. 3. PE 452. 4. Either HE 200 & HE 317 OR proof of valid First Aid and CPR certifications. 5. Department permission.

MS490 (Not Liberal Arts) Certified Exercise Physiologist Workshop 2 hrs. 1 crs. This course will support students' preparation for the Certified Exercise Physiologist (CPE) exam. Application of knowledge and skills pertaining to health-related fitness assessment, exercise prescription, and exercise program management. A review

of required certification material will be conducted throughout the course. At the completion of the course students will be prepared to sit for the Certified Exercise Physiologist exam. Preq: MS 487; PE 452; departmental permission required. 2 hours laboratory.

Movement Science Sports Rehabilitation

MSSR310 (Not Liberal Arts) Introduction to Sports Rehabilitation and Sports Medicine 3 hrs. 3 crs. An introductory course in the prevention, evaluation and treatment of sports injuries; acute care of injured individuals with emphasis on skeletal and soft tissue injuries. Preq: PE 362. Not open to students with credit in PEAT 310.

MSSR320 (Not Liberal Arts) Therapeutic Exercise and Evaluation 4 hrs. 4 crs. Principles and methods of on field evaluations for sports injuries; clinical therapeutic exercise post injury, and pre and post surgery. This course includes lectures and laboratory activities. Preq: MS 375 and MSSR 310. 2 hours lecture; 2 hours laboratory. Not open to students with credit in PEAT 320.

MSSR328 (Not Liberal Arts) Field Work in Sports Rehabilitation I 6 hrs. 2 crs. This supervised experience provides the student the opportunity to apply knowledge and skills acquired in the Sports Rehabilitation concentration. With guidance from a qualified supervisor and Movement Science faculty, the student engages in activities designed to enhance professional growth. Students will complete 6 hours field experience weekly, accumulating a total of 90 hours of off-campus experiential learning. Preq: MSSR 310; departmental permission required. Not open to students with credit in PEAT 328.

MSSR338 (Not Liberal Arts) Field Work in Sports Rehabilitation II 6 hrs. 2 crs. This supervised experience provides the student the opportunity to apply knowledge and skills acquired in the Sports Rehabilitation concentration. With guidance from a qualified supervisor and Movement Science faculty, the student engages in activities designed to enhance professional growth. Students will complete 6 hours field experience weekly, accumulating a total of 90 hours of off-campus experiential learning. Preq: MSSR 320; departmental permission required. Not open to students with credit in PEAT 338.

Military Science

MSci101 (Not Liberal Arts) Introduction to Leadership 1 3 hrs. 3 crs. This is an entry-level course exploring basic tactical and leadership concepts simultaneously providing students with an introduction to the U.S. Army and a familiarization with fundamentals of leadership that are applicable outside the military. Students will develop basic knowledge and skills needed for personal leadership competence sought after in military or civilian career fields. Open to all students and does not require an obligation to the U.S. Army. Participation in the Leadership Lab and field trips are required.

MSci102 (Not Liberal Arts) Introduction to Leadership 2 3 hrs. 3 crs. This is an entry-level survey course to introduce students to the United States Army and its Reserve Officer Training Corps (ROTC). Topics include the organizational structure of the military, procedures followed in military activities and types of skills needed to succeed in the military. The aim of the course is to use small unit scenarios as a vehicle to study decision-making, planning and leadership. Open to all

students and does not require an obligation to the U.S. Army. Preq: MSci 101 or Departmental permission Participation in the Leadership Lab and field trips are required.

MSci201 (Not Liberal Arts) Foundations of Leadership 1 3 hrs. 3 crs. This is an entry-level survey course to introduce students to leadership theory and skills at the small group / unit level. It uses the study of U.S. Army squad tactics to emphasize multiple leadership techniques. Additionally, it examines the traits of effective leaders with emphasis on their communication skills. Students will understand that different circumstances and group dynamics may require an adjustment of style to accomplish a task. Effective communication skill is highlighted throughout. Preq: Military Science 102 or Department permission required Coreq: Military Science 102 or Department permission required Open to all students and does not require an obligation to the U.S. Army. Participation in the Leadership Lab and field trips are required.

MSci301 (Not Liberal Arts) Adaptive Team Leadership 1 3 hrs. 3 crs. This is a closed course for students in their third year of the Military Science program. Students study, practice, and apply the fundamentals of Army leadership, officership, Army values and ethics, personal development, and small unit tactics at the team and squad level. Theory, skills and training to plan, and lead a team or squad in the execution of a practical exercise, a Leadership Lab, or during a Situational Training Exercise (STX) are part of the coursework. MSci 300 and 400 courses are only open to those students who are contracted with the U.S. Army ROTC. * Participation in the Physical Training, Leadership Lab and field trips are required. Preq: Military Science 202 or assessed equivalency based on prior military service / Contracted Cadets Only Coreq: Military Science 202 or assessed equivalency based on prior military service / Contracted Cadets Only. * MSci 300 level students must officially "contract" as an ROTC cadet - entering a commissioning program with the end state of serving as a 2nd Lieutenant in the United States Army. A contracted cadet MUST attend Physical Training 4 times a week.

MSci302 (Not Liberal Arts) Adaptive Team Leadership 2 3 hrs. 3 crs. This is a closed course for students in their third year of the Military Science program. Students apply Army leadership methods to situational training exercises in order to develop their own effective leadership styles. Students will exercise Army values and ethical decision-making at the squad and platoon levels. At the conclusion of the course, students will possess the required leadership skills to plan and issue orders necessary to lead a small unit Preq: Military Science 301 or assessed equivalency based on prior military service / Contracted Cadets Only Coreq: Military Science 301 or assessed equivalency based on prior military service / Contracted Cadets Only MSci 300 and 400 courses are only open to those students who are contracted with the U.S. Army ROTC. * Participation in the Leadership Lab, Physical Training and field trips are required. * MSci 300 level students must officially "contract" as an ROTC cadet - entering a commissioning program with the end state of serving as a 2nd Lieutenant in the United States Army. A contracted cadet MUST attend Physical Training 4 times a week.

MSci401 (Not Liberal Arts) Adaptive Leadership 1 3 hrs. 3 crs. This is a closed course for students in their final year of ROTC training. The course trains college seniors in the skills needed for success as a 2nd Lieutenant in the U.S. Army. Topics covered include ethics, planning, briefing and running training events. Students are given instruction in the theory behind Army training methods and then apply these techniques through individual or group projects aimed at providing training for the lower level ROTC students. Students will plan, and conduct the laboratory training component attended by the first through third students as practical exercises to their classroom instruction. Preq: Military Science 302/Contracted Cadets

Only Coreq: Military Science 302/Contracted Cadets Only Participation in the Leadership Lab Physical Training and field trips are required. * MSci 400 level students must officially "contract" as an ROTC cadet - entering a commissioning program with the end state of serving as a 2nd Lieutenant in the United States Army. A contracted cadet MUST attend Physical Training 4 times a week.

MSci402 (Not Liberal Arts) Adaptive Leadership 2 3 hrs. 3 crs. This is a closed course for students in their final year of ROTC training. The course trains college seniors in the skills needed for success as a 2nd Lieutenant in the U.S. Army. Topics covered include non-commissioned officer relationships, effective military writing and speaking, joint ethics regulations, and the code of conduct. Students are given instruction in the theory behind Army training methods and then apply these techniques through individual or group projects aimed at providing training for the lower level ROTC students. Students will plan, and conduct the laboratory training component attended by the first through third students as practical exercises to their classroom instruction. Preq: Military Science 401/Contracted Cadets Only Coreq: Military Science 401/Contracted Cadets Only Participation in the Physical Training, Leadership Lab and field trips are required. *

Music

MUS101 (Liberal Arts) Introduction to Music 3 hrs. 3 crs. Introduction to the study of music, including the understanding of fundamental elements of music, developing critical listening skills, investigating major works in the Western classical tradition and popular music, and acquiring basic research skills on music topics. [Flexible Core: Creative Expression]

MUS110 (Liberal Arts) Fundamentals of Music Theory 3 hrs. 3 crs. Introduction to the fundamentals of music theory and its notation. Topics include scales, time signatures, key signatures, intervals, and chords. [Flexible Core: Creative Expression]

MUS131 (Liberal Arts) Gospel Choir I 3 hrs. 1 crs. An introduction to the performance of music for mixed voices focusing on African-American sacred and secular traditions. Preq: Department permission required.

MUS138 (Liberal Arts) Chorus I 3 hrs. 1 crs. Rehearsal and performance of choral repertoire. Students will practice effective rehearsal and performance skills, including singing as part of an ensemble, intonation, diction, sight-reading, and music theory. Attendance at rehearsals and performances is required. Preq: Department permission required. Not open to students with credit in MUS 136.

MUS139 (Liberal Arts) Jazz Band I 3 hrs. 1 crs. Performance of basic repertoire including (but not limited to) standards from all styles of jazz: blues, New Orleans jazz, swing, bebop, Latin jazz, free, fusion, etc. Students will be coached in jazz performance practices (incl. arranging, soloing, etc.) and etiquette. Preq: Department permission required.

MUS141 (Liberal Arts) Class Instruction in Piano I 2 hrs. 1 crs. The study of keyboard literature to suit the level of the individual student.

MUS146 (Liberal Arts) Jazz Improvisation I 3 hrs. 1 crs. 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 department.

- MUS186 (Liberal Arts) Studies in Musical Performance I** 1 hrs. 1 crs. Private instruction in the student's principal instrument or voice. Preq: Department permission. Coreq: MUS 187.
- MUS187 (Liberal Arts) Performance Workshop I** 2 lab Hours hrs. 1 crs. This course will explore the basic dimensions of instrumental or vocal performance and will include performance of selected repertoire in a workshop format. Depending on the makeup of the class, topics may include: performance practice associated with different eras, exploration of particular genres, issues surrounding public performance, group performance, and other performance aspects. Students will expand their skills with regard to public performance and gain knowledge of performance issues involving different contexts. Preq: Department permission. Coreq: MUS 186.
- MUS208 (Liberal Arts) Music Theory I** 3 hrs. 3 crs. Harmonic analysis of tonal music, with an emphasis on diatonic harmony. Topics may include counterpoint, Roman numeral analysis, lead sheet symbols, and voice leading. Preq: MUS 110.
- MUS209 (Liberal Arts) Ear Training I** 3 hrs. 2 crs. Sight singing and ear training using moveable do. Preq: MUS 110. Not open to students with credit in MUS 210.
- MUS218 (Liberal Arts) Music Theory II** 3 hrs. 3 crs. Harmonic analysis of tonal music, with an emphasis on chromatic harmony. Topics may include applied chords and modulation. Preq: MUS 208. Not open to students with credit in MUS 220 or MUS 223.
- MUS219 (Liberal Arts) Ear Training II** 3 hrs. 2 crs. Advanced sight singing, ear training, and rhythm reading; reading transposed parts from orchestral scores; changing meters; atonality. Preq: MUS 209. Not open to students with credit in MUS 310.
- MUS223 (Liberal Arts) Harmony** 3 hrs. 3 crs. The study of diatonic harmony. Focuses on developing analytical skills to enhance appreciation, performance, and composition of Western music of the 18th and 19th centuries. Preq: MUS 110. Not open to students with credit in MUS 220.
- MUS225 (Liberal Arts) Foundations of Music Production** 3 hrs. 3 crs. Introduction to the use of computers for music production. Topics may include sampling and multi-track recording. [Flexible Core: Creative Expression]
- MUS231 (Liberal Arts) Gospel Choir II** 3 hrs. 1 crs. Performance of more-complex music for mixed voices focusing on African-American sacred and secular traditions. Preq: MUS 131.
- MUS238 (Liberal Arts) Chorus II** 3 hrs. 1 crs. Rehearsal and performance of choral repertoire. Students will practice effective rehearsal and performance skills, including singing as part of an ensemble, intonation, diction, sight-reading, and music theory. Attendance at rehearsals and performances is required. Preq: MUS 138. Not open to students with credit in MUS 236.
- MUS239 (Liberal Arts) Jazz Band II** 3 hrs. 1 crs. Performance of more-complex repertoire including (but not limited to) standards from all styles of jazz: blues, New Orleans jazz, swing, bebop, Latin jazz, free, fusion, etc. Students will be coached in jazz performance practices (incl. arranging, soloing, etc.) and etiquette. Preq: Department permission required.
- MUS241 (Liberal Arts) Class Instruction in Piano II** 2 hrs. 1 crs. The study of keyboard literature to suit the level of the individual student. Preq: MUS 141.
- MUS246 (Liberal Arts) Jazz Improvisation II** 3 hrs. 1 crs. Intermediate-to-advanced principles of jazz improvisation. The study of jazz scales, harmonic progressions, and rhythm concepts. Solo transcriptions, analysis, and reconstruction. Preq: Department permission required.
- MUS250 (Liberal Arts) African-American Music** 3 hrs. 3 crs. Survey of the music of African-Americans from slavery to the present; emphasis on its unique features and relevant topics plus its contribution to U.S. and global culture. Preq: ENG 126. This is a Writing Intensive course. [Flexible Core: Creative Expression]
- MUS253 (Liberal Arts) History of Jazz** 3 hrs. 3 crs. Survey of the history of jazz from its origins to the present with a focus on the major periods (such as ragtime, New Orleans, swing, bebop, Latin jazz, third stream, free, fusion, and today) and major jazz musicians. Preq: ENG 126. This is a Writing Intensive course. [Flexible Core: Creative Expression]
- MUS254 (Liberal Arts) History of Rock** 3 hrs. 3 crs. An overview of the history of rock 'n' roll that traces rock from its roots in the blues, country music, and other U.S.-American musics to its present-day incarnations. In addition to various historical periods, the course will also look at the cultural, economic, and social dynamics of rock. Preq: ENG 126.
- MUS255 (Liberal Arts) American Musical Theatre** 3 hrs. 3 crs. The examination of the elements and contents of the collaborative art form known as Musical Theatre. The musical will be examined in terms of elements, structure and original source material to understand how the elements work together to create a cohesive work of art. The course will identify and discuss the contributions of the major artists who have made a significant impact on the development of musical theatre. Preq: ENG 125. This course is cross-listed with TA255. Not open to students with credit in MUS301, TA 301 or TA 255. This is a Writing Intensive course. [Flexible Core: Creative Expression]
- MUS270 (Liberal Arts) Introduction to Ethnomusicology** 3 hrs. 3 crs. An introduction to ethnomusicological theories and practices. Musics will be studied within their cultural and historical contexts. Regions of investigation may include (but are not limited to): Asia, Africa, the Middle East, the Caribbean, South America, and Oceania. Preq: ENG 126. Not open to students with credit in ANTH 270. Cross-listed as ANTH 270. This is a Writing Intensive course. [Flexible Core: Creative Expression]
- MUS278 (Liberal Arts) The Art and Sound of Video Games** 3 hrs. 3 crs. A relatively new form of media in cultural history, video games are actively played by hundreds of millions of people in the United States alone. This interdisciplinary course focuses on the visual aesthetic and sound design of video games. Throughout the semester, we will apply methods of critical analysis to unpack what creates a "successful" video game (and what does not). We will do so both chronologically and thematically, studying the history of the medium, and by analyzing how it relates to other forms of culture such as film, art and music. This course is cross-listed with FA 278.
- MUS279 (Liberal Arts) History of Hip-Hop** 3 hrs. 3 crs. 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 subculture, to mainstream culture. 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 "rockin" and "pop-lockin"), and fashion. Preq: ENG 126. This course is cross-listed with HIST 279. Not open to students with credit in HIST 279. This is a Writing Intensive course.
- MUS286 (Liberal Arts) Studies in Musical Performance II** 1 hrs. 1 crs. Private instruction in the student's principal instrument or voice. Preq: Department permission. Coreq: MUS 287.

MUS287 (Liberal Arts) Performance Workshop II 2 lab Hours hrs. 1 crs. This course will explore more-complex dimensions of instrumental or vocal performance and will include performance of selected repertoire in a workshop format. Depending on the makeup of the class, topics may include: performance practice associated with different eras, exploration of particular genres, issues surrounding public performance, group performance, and other performance aspects. Students will expand their skills with regard to public performance and gain knowledge of performance issues involving different contexts. Preq: Department permission. Coreq: MUS 286.

MUS291 (Liberal Arts) Keyboard Accompaniment 3 hrs. 2 crs. Harmonization of melodies, chord progressions, developing accompaniment skills in popular music and jazz, including the technique of modulation at the keyboard. Preq: MUS 218 and MUS 241.

MUS299 (Liberal Arts) \$ Music Industry 3 hrs. 3 crs. Historical background and contemporary structure of the music industry. Explores legal concepts including copyright and music publishing. Emphasizes practical strategies for creating a successful career as a music professional. The class will produce, release, and promote a compilation of original music. Preq: ENG 126 and MUS 225. This is a Writing Intensive course.

MUS323 (Liberal Arts) Form & Analysis 3 hrs. 3 crs. Examines the structure of 18th-, 19th-, and 20th-century Western art music, including some 20th- and 21st-century popular music. Includes critical analysis of major works. Preq: MUS 218. Not open to students with credit in MUS 320.

MUS327 (Liberal Arts) Science of Recorded Sound 3 hrs. 3 crs. The basics of sound propagation, acoustics, and psychoacoustics. Scientific basis of analog recording methods. Emphasis on practical applications including acoustic treatment of recording spaces. Preq: MUS 225.

MUS328 (Liberal Arts) Advanced Music Production 3 hrs. 3 crs. Advanced concepts and techniques of computer-based music production. Use industry-recognized software platforms to explore the use of MIDI sequencing, digital sampling, and sound synthesis in different genres of popular music. Preq: MUS 225.

MUS329 (Liberal Arts) Recording Techniques for Music 3 hrs. 3 crs. Studio and location music recording with emphasis on microphone placement, signal flow and digital audio editing. Use industry-standard software to record soloists and ensembles in a variety of genres (pop/rock, jazz, classical). Preq: MUS 225.

MUS331 (Liberal Arts) Gospel Choir III 3 hrs. 1 crs. Intermediate performance of music for mixed voices focusing on African-American sacred and secular traditions. Preq: MUS 231.

MUS338 (Liberal Arts) Chorus III 3 hrs. 1 crs. Rehearsal and performance of choral repertoire. Students will practice effective rehearsal and performance skills, including singing as part of an ensemble, intonation, diction, sight-reading, and music theory. Attendance at rehearsals and performances is required. Preq: MUS 238. Not open to students with credit in MUS 336.

MUS339 (Liberal Arts) Jazz Band III 3 hrs. 1 crs. Performance of intermediate repertoire including (but not limited to) standards from all styles of jazz: blues, New Orleans jazz, swing, bebop, Latin jazz, free, fusion, etc. Students will be coached in jazz performance practices (incl. arranging, soloing, etc.) and etiquette. Preq: Department permission required.

MUS346 (Liberal Arts) Jazz Improvisation III 3 hrs. 1 crs. Intermediate principles of jazz improvisation. The study of jazz scales, harmonic progressions, and rhythm concepts. Solo transcriptions, analysis, and reconstruction. Preq: Department permission required.

MUS350 (Liberal Arts) Middle Ages to Baroque Era 3 hrs. 3 crs. The history of Western music from Gregorian Chant through the Baroque Era with emphasis on the major musical styles and composers during these periods. Preq: MUS 101.

MUS351 (Liberal Arts) Classical and Romantic Eras 3 hrs. 3 crs. The history of Western music from the Classical through the Romantic Eras with emphasis on the major musical styles and composers during these periods. Preq: MUS 101.

MUS386 (Liberal Arts) Studies in Musical Performance III 1 hrs. 1 crs. Private instruction in the student's principal instrument or voice. Preq: Department permission. Coreq: MUS 387.

MUS387 (Liberal Arts) Performance Workshop III 2 lab Hours hrs. 1 crs. This course will explore intermediate dimensions of instrumental or vocal performance and will include performance of selected repertoire in a workshop format. Depending on the makeup of the class, topics may include: performance practice associated with different eras, exploration of particular genres, issues surrounding public performance, group performance, and other performance aspects. Students will expand their skills with regard to public performance and gain knowledge of performance issues involving different contexts. Preq: Department permission. Coreq: MUS 386.

MUS420 (Liberal Arts) Instrumentation 3 hrs. 3 crs. Scoring for small and large instrumental ensembles, including orchestra, jazz ensemble, and band. Computers are used to perform arrangements. Preq: MUS 218.

MUS422 (Liberal Arts) Conducting 3 hrs. 3 crs. Basic principles of conducting and score reading; analysis of selected choral and orchestral works. Preq: MUS 218.

MUS425 (Liberal Arts) Composition 3 hrs. 3 crs. Original writing in various styles, with emphasis on the small forms. Computers, MIDI interfaces, and sampling are used to perform compositions. Preq: MUS 218.

MUS427 (Liberal Arts) Mixing and Mastering 3 hrs. 3 crs. Using industry-standard software, apply contemporary mixing techniques to create stereo mixes and master recordings in a variety of genres (pop/rock, jazz, classical). Emphasis on digital signal processing and automation. Preq: MUS 225.

MUS431 (Liberal Arts) Gospel Choir IV 3 hrs. 1 crs. Advanced performance of music for mixed voices focusing on African-American sacred and secular traditions. Preq: MUS 331.

MUS438 (Liberal Arts) Chorus IV 3 hrs. 1 crs. Rehearsal and performance of choral repertoire. Students will practice effective rehearsal and performance skills, including singing as part of an ensemble, intonation, diction, sight-reading, and music theory. Attendance at rehearsals and performances is required. Preq: MUS 338. Not open to students with credit in MUS 436.

MUS439 (Liberal Arts) Jazz Band IV 3 hrs. 1 crs. Performance of advanced repertoire including (but not limited to) standards from all styles of jazz: blues, New Orleans jazz, swing, bebop, Latin jazz, free, fusion, etc. Students will be coached in jazz performance practices (incl. arranging, soloing, etc.) and etiquette. Preq: Department permission required.

MUS446 (Liberal Arts) Jazz Improvisation IV 3 hrs. 1 crs. Advanced principles of jazz improvisation. The study of jazz scales, harmonic progressions, and rhythm concepts. Solo transcriptions, analysis, and reconstruction. Preq: Department permission required.

MUS450 (Liberal Arts) 20th-Century Music and Beyond 3 hrs. 3 crs. The history of Western art music during the twentieth century and beyond with emphasis on the major musical styles and composers of the period. Preq: MUS 101.

MUS453 (Not Liberal Arts) Globalization of Jazz 3 hrs. 3 crs. Since its beginnings, jazz has been a multicultural music including elements of African, European, and Caribbean cultures that were all present in the birthplace of jazz, New Orleans. As jazz evolved, not only did it spread across the U.S., it spread around the globe during World War II. As part of Cold War diplomacy, the U.S. State Department exported jazz as an example of democracy and freedom. Toward the end of the twentieth century, jazz became globalized as non-U.S. musicians added their own elements. Why does jazz have global appeal? And why has it been valued by so many outside of its country of origin? Preq: MUS 101 or MUS 250 or MUS 253 or MUS 270.

MUS455 (Liberal Arts) History of Film Music 3 hrs. 3 crs. This course explores the history and aesthetics of music in Hollywood, independent, and international cinema. Emphasis will be placed on the use of music to support the film's narrative. Technological aspects of film music production will also be considered. Preq: MUS 101.

MUS461 (Liberal Arts) Jazz Analysis 3 hrs. 3 crs. Detailed investigation into the musical styles of jazz, with special emphasis on the major jazz musicians who have helped to create and shape them. Preq: MUS 218.

MUS471 (Liberal Arts) Special Studies in Music 3 hrs. 3 crs. A selected topic in music. The topic may vary with each offering. Preq: Department permission required.

MUS472 (Liberal Arts) Special Studies in Music 3 hrs. 3 crs. A selected topic in music. The topic may vary with each offering. Preq: Department permission required.

MUS473 (Liberal Arts) Special Studies in Music 3 hrs. 3 crs. A selected topic in music. The topic may vary with each offering. Preq: Department permission required.

MUS474 (Liberal Arts) Special Studies in Music 3 hrs. 3 crs. A selected topic in music. The topic may vary with each offering. Preq: Department permission required.

MUS486 (Liberal Arts) Studies in Musical Performance IV 1 hrs. 1 crs. Private instruction in the student's principal instrument or voice. Preq: Department permission. Coreq: MUS 487.

MUS487 (Liberal Arts) Performance Workshop IV 2 lab Hours hrs. 1 crs. This course will explore advanced dimensions of instrumental or vocal performance and will include performance of selected repertoire in a workshop format. Depending on the makeup of the class, topics may include: performance practice associated with different eras, exploration of particular genres, issues surrounding public performance, group performance, and other performance aspects. Students will expand their skills with regard to public performance and gain knowledge of performance issues involving different contexts. Preq: Department permission. Coreq: MUS 486.

MUS490 (Liberal Arts) Senior Recital TBA hrs. 3 crs. Individualized performance proposed, directed, promoted, and documented by graduating senior. Preq: WRIT 301 or WRIT 302 or WRIT 303 or WRIT 304 or completion of at least 3 Writing Intensive credits at the 100- or 200-level; Department permission required. This is a Writing Intensive course.

New Student Seminar

NESS100 (Not Liberal Arts) College Survival and Success 30 hrs. 0 crs. The seminar provides orientation and facilitates transition for first time college students to the college environment, culture, and routine. Students will receive critical information on college services,

policies, and procedures, as well as tools to empower them for a successful tenure as an undergraduate student. Department Consent Required. Freshmen only.

NESS200 (Not Liberal Arts) Transfer Seminar 24 hrs. 0 crs. This seminar facilitates incoming transfer students' academic and social transition into the college environment, culture and routine. Through participation in collaborative activities students will receive critical information on college resources, services, policies, and procedures. Students will explore majors of interest and career opportunities to help develop a successful academic plan for degree completion.

Natural Science

NS370 (Liberal Arts) Honors Research Seminar 2 hrs. 1 crs. 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. Not credited toward fulfillment of any major or general education program requirements. 2 hours lecture/seminar bi-weekly. Written paper required. Pass/Fail grading only.

NS371 (Liberal Arts) Honors Research Seminar 2 hrs. 1 crs. 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. Not credited toward fulfillment of any major or general education program requirements. 2 hours lecture/seminar bi-weekly. Written paper required. Pass/Fail grading only.

NS470 (Liberal Arts) Honors Research Seminar 2 hrs. 1 crs. 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. Not credited toward fulfillment of any major or general education program requirements. 2 hours lecture/seminar bi-weekly. Written paper required. Pass/Fail grading only.

NS471 (Liberal Arts) Honors Research Seminar 2 hrs. 1 crs. 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. Not credited toward fulfillment of any major or general education program requirements. 2 hours lecture/seminar bi-weekly. Written paper required. Pass/Fail grading only.

Nursing

NURS101 (Not Liberal Arts) Nursing Process and Pharmacology 2 hrs. 2 crs. 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: Department permission required. Coreq: NURS 203 or NURS 204; NURS 210. This course may be offered in a face to face, hybrid, or asynchronous online format.

NURS203 (Not Liberal Arts) \$ Health Assessment - Wellness Promotion 6 hrs. 4 crs. 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: Departmental permission required. 3 hours lecture; 3 hours laboratory. This course may be offered in a face to face, hybrid, or asynchronous online format.

NURS204 (Not Liberal Arts) \$ Health Assessment - Wellness Promotion for the Generic Program 6 hrs. 4 crs. The nursing process is used to assist the students in developing health and physical assessment skills. Teaching/learning principles are used in assisting clients to maintain high-level wellness. College laboratory experiences assist the students in developing health assessment and teaching/learning skills. Students are introduced to the concepts of service-learning and given the opportunity to integrate these concepts into their professional learning activities. Preq: Department permission required. Coreq: NURS 210. 3 hours lecture; 3 hours laboratory.

NURS210 (Not Liberal Arts) \$ Fundamentals of Nursing Practice 12 hrs. 6 crs. The course integrates principles presented in the natural, behavioral sciences and humanities, to introduce the student to professional nursing practice. The Nursing process is used to guide the student in developing basic nursing skills, therapeutic communication techniques and critically analyze client needs. Ethical, moral, and legal aspects of nursing care, research and evidence-based care, principles of leadership, management and accountability are highlighted throughout the course. Preq: Department permission required. Coreq: NURS 201; NURS 204. 3 hours lecture; 3 hours laboratory; 6 hours clinical.

NURS301 (Not Liberal Arts) \$ Values in Transition: Perspectives of Professional Nursing 3 hrs. 3 crs. 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/re-socialization into the professional nursing practice. Preq: Department permission required. This is a Writing Intensive (WI) course. This course may be offered in a face to face, hybrid, or asynchronous online format.

NURS302 (Not Liberal Arts) Pharmacology for Nurses 3 hrs. 3 crs. 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 pathophysiological 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: Department permission required. Coreq: NURS 320.

NURS310 (Not Liberal Arts) Nursing Process: Nursing Care of the Child-bearing Client/Family System 8.5 hrs. 5 crs. 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. Clinical laboratory learning experiences are designed to provide opportunities for the student to function in variety of settings including on-campus simulation, in-patient units, ambulatory and community health care settings. Preq: Department permission required. Coreq: NURS 203 or NURS 204; NURS 210. 3 hours lecture; 1.5 hours laboratory; 4 hours clinical. This course may be taught in a 7 week format. In a 7-week format, students' contact hours will be 17 hours per week (6 lecture; 3 laboratory; 8 clinical).

NURS314 (Not Liberal Arts) Management and Leadership in Professional Nursing/Client Intersystems 3 hrs. 3 crs. 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 inter-systems in the promotion and maintenance of health. Topics such as performance improvement and peer review will be analyzed. Preq: Department permission required. Coreq: NURS 301, NURS 310. This course may be offered in a face to face, hybrid, or asynchronous online format.

NURS315 (Not Liberal Arts) Professional Nurse-Family and Community Intersystem I 9 hrs. 5 crs. 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, and department permission required. 3 hours lecture; 6 hours clinical. This course may be offered in a face-to-face or hybrid format.

NURS320 (Not Liberal Arts) \$ Adult Health I 13 hrs. 7 crs. The Nursing Process is used to focus on caring for multicultural adult clients who have common, acute health deviations. Principles presented in the natural and behavioral sciences, humanities and nursing theory are integrated to assist students in synthesizing knowledge required for interventions to restore the client to his/her optimum level of wellness or to a peaceful death. Ethical, moral and legal issues in nursing practice are addressed. Nursing research and evidence-based practice are incorporated into the care of the adult client. Preq: Departmental permission required. Coreq: BIO 336; NURS 101; NURS 204; NURS 210. 4 hours lecture; 3 hours laboratory; 6 hours clinical.

NURS340 (Not Liberal Arts) \$ Nursing Care of Children: Infancy to Adolescence 8.5 hrs. 5 crs. 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: Department permission required. Coreq: NURS 203

or NURS 204; NURS 210; NURS 310. 3 hours lecture; 1.5 hours laboratory; 4 hours clinical. This course may be taught in a 7 week format. In a 7-week format, students' contact hours will be 17 hours per week (6 lecture; 3 laboratory; 8 clinical). This course may be offered as a face-to-face or a hybrid course.

NURS405 (Not Liberal Arts) Professional Nurse-Family and Community Intersystems II 3 hrs. 3 crs. The Nursing Process and Intersystem framework will be used to evaluate populations who are experiencing actual or potential crises situations. Contemporary concepts of community health nursing, crisis theory, developmental theory, and nursing theory are integrated to facilitate a higher level of state growth (the dying process) are incorporated. Preq: Departmental permission required. This course may be offered in a face-to-face, hybrid, or asynchronous online format.

NURS406 (Not Liberal Arts) Professional Nurse-Societal and Community Client Intersystems: Emergent Evolution 3 hrs. 3 crs. 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: Department permission required. Coreq: NURS 405. This course may be offered in a face to face, hybrid or asynchronous online format.

NURS407 (Not Liberal Arts) Research in Professional Nursing Practice 3 hrs. 3 crs. This course designed to provide 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 improving patient care. The student will identify a researchable problem; will critique published nursing research studies; and will perform a detailed literature search. Emphasis will be placed on identifying the best available research evidence and integrating it with clinical nursing decision-making. Preq: Department permission required. This is a Writing Intensive (WI) course. This course may be offered in a face-to-face, hybrid, or asynchronous online format.

NURS415 (Not Liberal Arts) \$ Professional Nurse-Family Group and Community Intersystems-Generic 7.5 hrs. 4.5 crs. 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 314, NURS 320, NURS 406, NURS 420, and departmental permission required. 3 hours lecture; 1.5 hours laboratory; 3 hours clinical. This course may be offered in a 7 week format. In a 7-week format, students' contact hours will be 15 hours per week (6 lecture; 3 laboratory; 6 clinical).

NURS420 (Not Liberal Arts) \$ Adult Health II 13 hrs. 7 crs. This course uses the nursing process to focus on caring for multicultural adult clients who have complex and chronic health deviations. Principles presented in the natural and behavioral sciences, humanities and nursing theory are integrated to assist students in synthesizing knowledge that requires interventions to restore the client to his/her optimum 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: Department permission required. Coreq: NURS 210; NURS 204; NURS 320; NURS 406. 4 hours lecture; 3 hours laboratory; 6 hours clinical.

NURS430 (Not Liberal Arts) \$ Nurse-Client Intersystems: Psychiatric/Mental Health Nursing 7.5 hrs. 4.5 crs. 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. Students will use therapeutic communication techniques as they interact with client systems with mental disorders. Ethical, moral and legal issues in psychiatric nursing practiced are addressed. Research is applied to practice through the use of the best evidence currently available for clinical decision making. Clinical experiences are provided in a variety of mental health settings - inpatient and community settings. Preq: Department permission required. Coreq: NURS 314; NURS 320; NURS 420; NURS 415. 3 hours lecture; 1.5 hours laboratory; 6 hours clinical. This course may be offered in a 7 week format. In a 7-week format, students' contact hours will be 15 hours per week (6 lecture; 3 laboratory; 6 clinical).

NURS450 (Not Liberal Arts) Assessment of Health Needs in a Global, Underserved Community 3 hrs. 3 crs. This elective, independent study course provides with a service learning experience as well as an opportunity to assess the health needs of a global health community. One of the YC nursing program outcomes focuses on advocating for health policies that address local and global health issues. This elective course will offer a unique experience for students to interact with community members and identify their unique health needs and work on sustainable learning and teaching projects. Preq: NURS 320 and department permission required.

NURS500 (Not Liberal Arts) Advanced Nursing Science, Research and Scholarship 3 hrs. 3 crs. This course provides graduate students in an advanced nursing program with the proficiency to integrate nursing science and other inter-professional research to improve student and client centered outcomes, synthesizing knowledge from the sciences, humanities, nursing theory and statistics. The content is based on proficiency in the ethical utilization and clinical application of research to provide high quality evidenced-based care to culturally diverse populations and learners. The student reviews qualitative, quantitative, mixed method, meta-analysis and meta-synthesis studies to provide a scholarly critique and integrates these studies to a practice problem or research question. Preq: Departmental permission required. Coreq: NURS 503, NURS 506, NURS 509.

NURS503 (Not Liberal Arts) Advanced Nursing Theory, Educational Models and Conceptual Frameworks 3 hrs. 3 crs. This course incorporates advanced nursing theory, educational models and conceptual frameworks as the underpinning for the education of clients and learner populations, health care delivery and evidenced based practice that will provide a foundation for the student to transition into the graduate level nursing role. The content includes grand theories, caring theories and middle range theories and their impact on clinical practice, education, research and cultural competency. Additionally, the students explore the concepts of the nursing metaparadigm. Coreq: NURS 500, NURS 506, NURS 509.

NURS506 (Not Liberal Arts) Statistical Analysis for Healthcare and Healthcare Economics 3 hrs. 3 crs. This statistics course incorporates an understanding of evidence-based practice, statistics and a working knowledge of statistical software programs. Application of statistics to nursing and healthcare issues that require measurement, analysis, and decision making for education or health care improvement is required. Emphasis is placed on the application and solid conceptual understanding of statistical inference with different study designs to facilitate knowledge, appropriate use, and interpretation of results and evaluation of various statistical

procedures as it relates to healthcare economics for the graduate level prepared nurse. Preq: Department permission. Coreq: NURS 500, NURS 503, NURS 509.

NURS509 (Not Liberal Arts) Advocacy, Public Policy and Healthcare Disparities 3 hrs. 3 crs. This course exposes students to the social determinants of health, Healthy People 2020, health differences in population groups residing in specific geographic locations, and understanding the negative impact of health disparities on a nation's economy. This course includes the essential role of the nurse at institutions in the community on a national and global level. Through engaging with the community and advocating for the vulnerable populations facing health disparities, students will engage in activities which will influence public policy formation and implementation with the overarching goal of promoting health equity. Preq: Department permission. Coreq: NURS 500, NURS 503, NURS 506, NURS 512. This course may be offered in a face-to-face, hybrid, or asynchronous online format.

NURS512 (Not Liberal Arts) Introduction to Nursing Informatics and Technologies: In Healthcare Systems 3 hrs. 3 crs. This course introduces the baccalaureate-prepared nurse to the concepts and technologies of nursing informatics for the nurse with advanced skills. This graduate-level course provides an overview of nursing and health informatics to improve patient and learner outcomes. The course provides a foundational knowledge for current and emerging technologies within nursing practice, education and research. Emphasis is placed on standards, patient safety, outcomes and quality. Preq: Departmental permission required. NURS 500, NURS 503, NURS 506, NURS 509. Coreq: NURS 600, NURS 603, NURS 606, NURS 609.

NURS600 (Not Liberal Arts) The Nurse Educator Role 3 hrs. 3 crs. This course will prepare students for the role of the nurse educator in the academic, healthcare institution, community, and other education service settings. Students will become familiar with the varied roles of the nurse educator in each of these settings and will have the opportunity to explore the educator role of their choice. The core competencies of the nurse educator role as defined by American Association of Colleges of Nursing Essentials of Master's Education in Nursing, the National League for Nursing Scope of Practices for Academic Nurse Educators, American Nurses Association Nursing: Scope and Standards of Practice Standards, and the Association for Nursing Professional Development Scope of Practice Standards will be used as a foundation for the course. Preq: Departmental permission required. Coreq: NURS 603, NURS 606, NURS 609.

NURS603 (Not Liberal Arts) Teaching and Learning Strategies in Nursing 3 hrs. 3 crs. This course is designed to present the use of innovative teaching and learning strategies with an emphasis on developing strategies to assist nursing students meet their learning needs based upon identified individual learning styles. Innovative teaching strategies of various formats will be the focus of the course. Emphasis will be placed upon selecting appropriate teaching strategies for the method of content delivery. Preq: Departmental permission required. Coreq: NURS 600, NURS 606, NURS 609.

NURS606 (Not Liberal Arts) Curriculum Development and Evaluation of Program Outcomes 3 hrs. 3 crs. This course enables the student to apply theoretical principles of curriculum development, program evaluation and evaluation of student outcomes in various educational settings. Emphasis is placed on development of student outcomes and program outcomes that will measure effectiveness of achievement of these measures. Preq: Department permission. Coreq: NURS 600, NURS 603, NURS 609.

NURS609 (Not Liberal Arts) Assessment and Evaluation in Nursing Education 3 hrs. 3 crs. This course examines the various theoretical models and best practices for assessment of nursing

program curricula, with emphasis in student learning outcomes and continuous quality program improvement including formative and summative assessment measures. Preq: Departmental permission required. Coreq: NURS 600, NURS 603, NURS 606.

NURS612 (Not Liberal Arts) Leadership and Legal Issues in the Nurse Educator Role 3 hrs. 3 crs. This course examines and prepares student for a nurse educator role as an effective leader and manager of the ethical and legal issues in relationship to nursing education. Students have the opportunity to analyze social, cultural, political, regulatory, and clinical issues in nursing education. Preq: Departmental permission required. NURS 600, NURS 603, NURS 604. Coreq: NURS 615, NURS 618.

NURS615 (Not Liberal Arts) Simulation and Online Education for the Nurse Educator 3 hrs. 3 crs. This course examines and prepares student for a nurse educator role as an effective leader and manager of the ethical and legal issues in relationship to nursing education. Students have the opportunity to analyze social, cultural, political, regulatory, and clinical issues in nursing education. Preq: Departmental permission required. NURS 600, NURS 603, NURS 604. Coreq: NURS 612, NURS 618.

NURS618 (Not Liberal Arts) Clinical Teaching and Achieving Student Clinical Outcomes 3 hrs. 3 crs. This course provides a foundation of knowledge and a variety of approaches for educating nurses in the clinical setting. Relevant educational theory will be introduced to provide a basis for clinical nursing instruction. Assessment and evaluation strategies for the clinical setting will be explored. Practical approaches and suggestions will be provided to help nurses transition from a clinical practice role to the role of clinical nursing faculty. Preq: Departmental permission required. NURS 600, NURS 603, NURS 606, NURS 609. Coreq: NURS 612, NURS 615.

NURS621 (Not Liberal Arts) Nursing Education Practicum I: in the Nursing Professional Development Role 12 hrs. 6 crs. This practicum course provides the student the opportunity to work with a selected preceptor and the student will complete 135 hours of teaching and learning experiences with a nurse educator in Professional Development in a non-academic setting. Focus is on the integration of theory and practice of nursing education role with socialization into the role of nurse in health care setting. Preq: Department permission. NURS 612. Coreq: NURS 615, NURS 618. 3 hours lecture, 9 hours clinical.

NURS624 (Not Liberal Arts) Nursing Education Practicum II: in the Academic Faculty Role 12 hrs. 6 crs. This course prepares students for the role of the academic nurse educator in a higher education nursing setting. The graduate nursing student is prepared within a College of higher education under the direct supervision of a preceptor. Specifically, the students engage in teaching in the classroom, clinical and laboratory settings. Opportunities to engage in aspects of curriculum development and evaluation are covered. Students will complete 135 hours of clinical experience and attend a 3hour weekly lecture which is designed for students to discuss their practicum experiences and to apply theory to practice. Preq: Departmental permission required. NURS 612. Coreq: NURS 615, NURS 618. 3 hours lecture, 9 hours clinical.

Occupational Therapy

OT313 (Not Liberal Arts) Fundamentals of Occupational Therapy 3 hrs. 3 crs. An introduction to the profession of Occupational Therapy and its various theoretical bases; examination of fundamental principles of Occupational Therapy, such as

awareness, goal-oriented activities, the collaborative experience, self-actualization and the needs of the groups. Departmental permission required.

OT315 (Not Liberal Arts) Functional Human Anatomy 5 hrs. 4 crs. Exploration of the physiological functioning of the human body and its relationship to health: skeletal, muscular, integumentary, nervous, cardiovascular, lymphatic, endocrine, respiratory, digestive, urinary and reproductive systems are addressed. Preq: Department permission required. 3 hours lecture, 2 hours laboratory.

OT316 (Not Liberal Arts) \$ Functional Human Physiology 5 hrs. 4 crs. Exploration of the physiological functioning of the human body and its relationship to health: skeletal, muscular, nervous, circulatory, respiratory, digestive, endocrine, reproductive, urogenital, and integumentary systems. Preq: Departmental permission required. 3 hours lecture, 2 hours laboratory.

OT318 (Not Liberal Arts) \$ Clinical Kinesiology 5 hrs. 4 crs. This course is designed for occupational therapy majors with an established knowledge of anatomical structures. This course provides an introduction to the concepts of: biomechanics, study of human motion, gravity, linear force, rotary force, and torque. These basic concepts are applied to the musculoskeletal regions of the: head, torso, shoulder complex, elbow complex, forearm, wrist, hand, and lower extremities. The laboratory experiences challenge students to apply these concepts in the analysis, synthesis and evaluation of human movement. Coreq: OT 318L. 3 hours lecture, 2 hours laboratory.

OT319 (Not Liberal Arts) Common Medical Conditions: Impact on Occupational Performance 3 hrs. 3 crs. 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 Therapists come in contact. Preq: Department permission required.

OT321 (Not Liberal Arts) \$ Occupational Analysis 4 hrs. 3 crs. This is an undergraduate class that will introduce students to the Occupational Therapy 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 (Activities of Daily Living Instrumental Activities of Daily Living, work, play etc.) will be introduced. The laboratory 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 (Not Liberal Arts) Occupation Through the Life Span 3 hrs. 3 crs. This course provides foundational knowledge on human development across the life span including age appropriate occupations, and the role of context and culture in shaping how and what people do throughout their life span. Experiential learning and observations are a part of class activities and assignments.

OT403 (Not Liberal Arts) Advanced Occupational Analysis 4 hrs. 3 crs. Students further develop their understanding of the multifaceted dimensions of occupational analysis as a basis for practice. The lab component will include, but not 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.

OT404 (Not Liberal Arts) Advanced Neuroscience 5 hrs. 4 crs. This is an undergraduate level course for occupational therapy students in the second semester of their second year. The course presents current concepts of the relationship between brain function and perception/cognition needed for functional behavior. Focus is on visual, attention, memory and executive processes. Content is addressed through literature, cases, and include studies of lesion localization and neuroimaging for clinical understanding. Clinical applications are made using appropriate clinical assessment tools, interpreting the impact of cognitive disorder in areas on occupation. The laboratory component will include but not be limited to application of concepts and practice of treatment techniques. Preq: Department permission required. 3 hours lecture, 2 hours laboratory.

OT411 (Not Liberal Arts) Occupational Therapy Process I: Pediatric Intervention 5 hrs. 4 crs. 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 and experimental learning 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 hours lecture, 2 hours laboratory.

OT417 (Not Liberal Arts) Research Methods 4 hrs. 3.5 crs. 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 and inferential statistics, parametric and nonparametric tests and their application in occupational therapy research. The emphasis in the course will be on interpreting and utilizing research results, understanding statistics and the impact of research on theory and clinical practice. Preq: MATH 111 and department permission required. The 1 hour recitation will be devoted to enhancing student's statistical knowledge.

OT423 (Not Liberal Arts) \$ Collaboration in Occupational Therapy 4 hrs. 4 crs. Introduction to problems and methods involved in the helping process in Occupational Therapy. This course will facilitate development of professional behaviors: oral and written communication skills, self-awareness, attitudes and values. Student will also gain an appreciation and understanding of diversity factors and lifestyles choices in contemporary society. The course will also explore attitudes about self help and disability and will facilitate problem solving skills and group process methods. An experiential learning component of the class will provide opportunities for students to participate in activities in order to practice tools and techniques of collaboration. Community experiences will be related to course content. This will allow for students to evaluate their own learning and practice professional behaviors needed for future practice. Course content will focus on health promotion, prevention and wellness. Preq: Department permission required. 4 hours and 8 full days of Level I fieldwork (6-8 hours a day).

OT424 (Not Liberal Arts) Professional Development I 1 hrs. 1 crs. This class will introduce students to the Fieldwork expectations and roles of student and supervisor. Students will look at Fieldwork supervisor expectations, student expectations and the overall OT program expectations for their performance on their Level I fieldwork in the spring. Preq: By department permission.

OT432 (Not Liberal Arts) Neuroscience 4 hrs. 3.5 crs. This is an undergraduate course for first semester, second year OT major students. Content is focused on neuroanatomical and neurophysiological systems, emphasizing motor and sensory

processes. Diseases and lesions of the central, peripheral, and autonomic nervous systems are identified and associated with their impact on human function. Preq: Departmental permission required. 3 hours lecture, 1 hour recitation.

OT446 (Not Liberal Arts) Independent Study of Selected Topics in Occupational Therapy 3 hrs. 3 crs. 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.

OT505 (Not Liberal Arts) \$ Occupational Therapy Process I: Physical Intervention 5 hrs. 4 crs. This course prepares students to develop and provide occupational therapy interventions for adults with physical disabilities, focusing on assessment and interventions with patients with orthopedic and medical conditions. Students apply knowledge from prior coursework including anatomy, physiology, and medical pathologies, and utilize clinical problem solving and research for practice. Students participate in part-time clinical experiences that link coursework with practice. This course prepares the students for Fieldwork II experiences and practice in adult rehabilitation settings. The laboratory component will include, but not be limited to, application of concepts and practice of treatment techniques. Preq: Department permission required. 3 hours lecture, 2 hours laboratory.

OT506 (Not Liberal Arts) \$ Occupational Therapy Process II: Physical Intervention 5 hrs. 4 crs. This course prepares students to develop and provide occupational therapy interventions for adults with physical disabilities. It focuses on assessment and interventions with patients having neurological conditions and complex medical diagnoses. Students apply knowledge from coursework and utilize clinical problem solving and research for practice. Students learn methods of evaluation, remedial and compensatory treatment strategies to support occupational performance. Students participate in part-time clinical experiences that link coursework with practice. This course prepares the students for Fieldwork II experiences (full time) and occupational therapy practice in adult rehabilitation settings. The laboratory component will include, but not be limited to, concepts and practice of treatment techniques. Preq: Department permission required. 3 hours lecture, 2 hours lab, 1 full day (8 hours) a week for 6 weeks (48 hours) of Level I Fieldwork.

OT507 (Not Liberal Arts) Professional Development II 1 hrs. 1 crs. This class will continue to focus on the student supervisor roles in conjunction with their second fieldwork level I experience. This seminar will build on previous topics from the first Professional Development Seminar and including but not limited to: safety awareness, evaluation and treatment, and preparing for Fieldwork Level II. Preq: By department permission.

OT508 (Not Liberal Arts) Occupational Therapy Process I: Psychosocial Intervention 5 hrs. 4 crs. This is a graduate level course which investigates the major psychiatric disorders and challenges students to explore the effect of these disorders on the occupational performance of individuals. Students will learn clinical terminology, standardized and non-standardized assessment tools and practice documentation. Students will also gain a foundation in theoretical concepts as a basis for intervention, utilizing the Occupational Therapy Practice Framework. Teaching strategies will include case based learning, literature review and structured

assignments. Participating in Lobby Day and other community efforts will provide an opportunity to practice advocacy skills. The laboratory component will include, but not be limited to, application of concepts and practice of treatment techniques. Preq: Department permission required. 3 hours lecture, 2 hours laboratory.

OT509 (Not Liberal Arts) Occupational Therapy Process II: Psychosocial Intervention 5 hrs. 4 crs. This course is designed for graduate students to build upon the content gained in previous coursework by placing more focus on the curative nature of groups for occupational therapy intervention. The use of groups to promote the achievement of individual/group outcomes in the various occupational performance areas is the primary goal, and students will be encouraged to seek evidence supporting best practice. The laboratory component will include, but not be limited to application of concepts and practice of treatment techniques. Preq: Department permission required. 3 hours lecture, 2 hours laboratory.

OT513 (Not Liberal Arts) Systems Management 3 hrs. 3 crs. This graduate level course provides students with knowledge and understanding of systems theory and its applicability to the delivery of OT services. The course introduces and helps students apply principles of management within systems theory and reviews other major management theories in the provision of OT practice. This includes strategic and financial planning, marketing, reimbursement, and documentation. Students review principles of ethical practice, legal implications, licensure, certification, and continuing professional development and competency. Preq: Department permission required. This course may be offered in a face-to-face or hybrid format.

OT517 (Not Liberal Arts) Research Design 3 hrs. 3 crs. This graduate course provides students with knowledge and understanding of principles of measurement and assists students to become familiar with psychometric theory and its application to occupational therapy clinical research and practice. Students' competency in Statistical Package for the Social Sciences (SPSS) is further extended using specific inferential statistical procedures designed for hypotheses testing. Students learn how to identify literature retrieval sources and conduct electronic literature searches relevant to their research projects. Preq: Department permission required.

OT518 (Not Liberal Arts) Research Seminar I 3 hrs. 1 crs. Develop a feasible research proposal related to occupational therapy practice. Preq: OT 517; Department permission required.

OT519 (Not Liberal Arts) Research Seminar II 3 hrs. 1 crs. 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. Preq: OT 518.

OT522 (Not Liberal Arts) Research Seminar IV 3 hrs. 2 crs. 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. Department permission required.

OT523 (Not Liberal Arts) \$ Use of Orthotics in Occupational Therapy Practice 2 hrs. 1 crs. This combined lecture and guided laboratory course addresses the topic of orthotics (splinting) within occupational therapy practice. It teaches students principles of splinting and how to evaluate, design, fabricate, and order common types of customized and prefabricated orthoses for individuals with diverse medical conditions. Preq: Department permission required. Combined lecture & guided laboratory.

OT524 (Not Liberal Arts) Use of Physical Agent Modalities in Occupational Therapy Practice 2 hrs. 1 crs. This combined lecture and guided laboratory course addresses the topic of physical agent modalities within occupational therapy practice. It addresses the role of physical agent modalities within rehabilitation and teaches students basic principles for patient evaluation and use of thermal agents, ultrasound, compression, and electrical modalities (ultrasound and electrical stimulation) within a comprehensive program of occupational therapy. Preq: Departmental permission required. Combined lecture & guided laboratory.

OT641 (Not Liberal Arts) Fieldwork Level II Occupational Therapy Practice I 12 weeks of full-time clinical experience hrs. 5 crs. This is a graduate level, professionally supervised clinical experience full-time approximately 40 hours per week for 12 weeks plus weekly 2 hour a week discussion groups. Preq: Department permission required.

OT642 (Not Liberal Arts) Fieldwork Level II Occupational Therapy Practice II 12 weeks of full-time clinical experience hrs. 5 crs. This is a graduate level, professionally supervised clinical experience full-time approximately 40 hours per week for 12 weeks plus weekly 2 hour a week discussion groups. Preq: Department permission required.

OT643 (Not Liberal Arts) Capstone Community Experience 4 hrs. 4 crs. This course is designed for occupational therapy majors who have successfully completed preclinical and clinical portions of the professional program. This course provides an opportunity for students to be exposed to the role of consultant and to learn and apply its basic skills. Each student is required to identify and partner with a community based agency/institution, perform a needs assessment, identify the problems, select one problem, and create an evidenced based plan to address it. This plan will be presented the agency/institution and secondly to the members of the class. Preq: Department permission required. This course may be offered as a hybrid or traditional course format.

OT644 (Not Liberal Arts) \$ Advanced Occupational Therapy Theory & Practice 3 hrs. 3 crs. 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. Students must have completed fieldwork experiences. Availability to be determined by the department.

OT645A (Not Liberal Arts) Occupational Therapy Practice 3 hrs. 3 crs. This elective graduate seminar is for students in the last semester of didactic work. This course is designed for students seeking a specialty area focus, reflecting student interests, including current and future areas of Occupational Therapy practice. Preq: Department permission required.

OT645B (Not Liberal Arts) Occupational Therapy Practice 3 hrs. 3 crs. This elective graduate seminar is for students in the last semester of didactic work. This course is designed for students seeking a specialty area focus, reflecting student interests, including current and future areas of Occupational Therapy practice. Preq: Department permission required.

OT646 (Not Liberal Arts) Independent Study of Selected Topics in Occupational Therapy tba hrs. 3 crs. This graduate level 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, etc. will be determined by student and faculty. Major projects/assignments will be discussed with student. Future research interests in this area will also be explored. Hours will be determined by the professor and student. Preq: Department permission required. The course is not offered on a regular basis; availability to be determined by the department.

OT647 (Not Liberal Arts) \$ Assistive Technology 3 hrs. 2 crs. This course is designed for occupational therapy majors with foundational knowledge of common medical conditions and their impact on occupational performance. Students will acquire foundational knowledge and skills to select and instruct individuals in the use of products, devices or equipment, whether acquired commercially, modified or customized, that are used to maintain, increase or improve the functional capabilities of individuals with disabilities. This course consists of didactic lectures, case studies, field visits and laboratory experiences. Preq: Department permission required.

OT648 (Not Liberal Arts) Independent Study in Occupational Therapy 1 hrs. 1 crs. The course provides an opportunity to advance knowledge of an individual area of Occupational Therapy practice or area related to practice (i.e. bioethics, health literacy, environmental design, etc.). Students will work with an Occupational Therapy faculty member to determine readings and assignments appropriate for their special topic of interest. Preq: Department permission required. The course is not offered on a regular basis; availability to be determined by the department and does not account for the major.

Physical Education

PE141 (Not Liberal Arts) \$ Weight Training 2 hrs. 1 crs. History and benefits of weight training, training principles and procedures related to weight training, implementation of a personal weight training program.

PE150 (Not Liberal Arts) Fitness for Living 3 hrs. 2 crs. 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 (Not Liberal Arts) \$ Basketball 2 hrs. 1 crs. Basic skills leading up to actual competition; team play, rules, tactics, and strategy.

PE152 (Not Liberal Arts) Instructional Methodologies of Teaching Sport Skills 2 hrs. 2 crs. 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. Preq: Not open to students with credit in PE 139. PE 150 and any four (4) courses selected from the PE skills courses.

PE153 (Not Liberal Arts) Wrestling 2 hrs. 1 crs. Basic skills in free style college wrestling.

PE154 (Not Liberal Arts) \$ Track and Field 2 hrs. 1 crs. Basic skills in sprinting, distance running, relays, high jump, and all field events.

PE155 (Not Liberal Arts) Fencing 2 hrs. 1 crs. Basic skills in foil fencing.

PE156 (Not Liberal Arts) \$ Gymnastics I 2 hrs. 1 crs. Fundamental skills in tumbling, trampolining, and gymnastic apparatus work.

PE157 (Not Liberal Arts) \$ Gymnastics II 2 hrs. 1 crs. Intermediate and advanced gymnastic skills; emphasis on use of skills in creative gymnastic routines. Preq: PE 156 or permission of instructor.

PE158 (Not Liberal Arts) \$ Football 2 hrs. 1 crs. 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 (Not Liberal Arts) \$ Self-Defense Activities 2 hrs. 1 crs. Basic skills in self-defense activities such as Karate and/or Judo.

PE162 (Not Liberal Arts) \$ Lacrosse 2 hrs. 1 crs. Individual and team skills; formations and positional function; tactics and strategy in competition.

PE163 (Not Liberal Arts) \$ Softball 2 hrs. 1 crs. Techniques of batting, running, throwing, and catching; position play and game strategy.

PE164 (Not Liberal Arts) \$ Soccer 2 hrs. 1 crs. Individual and team skills; formations and positional function; tactics and strategy in competition.

PE165 (Not Liberal Arts) \$ Volleyball 2 hrs. 1 crs. Basic skills leading up to actual competition; team play, rules, tactics, and strategy.

PE166 (Not Liberal Arts) \$ Yoga 2 hrs. 1 crs. Beginning and intermediate postures of hatha yoga; philosophy and relaxation techniques.

PE167 (Not Liberal Arts) \$ Handball 2 hrs. 1 crs. Elements of one-wall and four-wall handball; basic shots, strategy, competitive play, rules and scoring of singles and doubles games.

PE170 (Not Liberal Arts) \$ Canoeing 2 hrs. 1 crs. 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 (Not Liberal Arts) \$ Tennis 2 hrs. 1 crs. Fundamental techniques of the game; basic strokes and court strategy; rules and scoring of singles and doubles games.

PE173 (Not Liberal Arts) \$ Folk and Social Dance 2 hrs. 1 crs. Traditional and current dance favorites; dance skills and techniques of folk, square, ballroom, and novelty dances.

PE174 (Not Liberal Arts) \$ Golf 2 hrs. 1 crs. Theory, rules, and etiquette of golf; basic skills.

PE176 (Not Liberal Arts) \$ Modern Dance I 2 hrs. 1 crs. Fundamental movements and basic techniques; metrics, movement phrases, improvisation, and composition.

PE177 (Not Liberal Arts) Small Boat Sailing 2 hrs. 1 crs. 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 (Not Liberal Arts) \$ Outdoor Living: Hiking and Backpacking 2 hrs. 1 crs. Essentials of hiking, backpacking and outdoor living. Includes classroom sessions and four day Adirondack or Catskill Mountains trip.

PE179 (Not Liberal Arts) \$ Skiing 2 hrs. 1 crs. Introduction to downhill skiing.

PE181 (Not Liberal Arts) \$ Badminton 2 hrs. 1 crs. Fundamental techniques of the game; basic strokes and court strategy; rules and scoring of singles and doubles game.

PE182 (Not Liberal Arts) \$ Swimming for Non-Swimmers 2 hrs. 1 crs. Individualized program to assist non-swimmer develop basic skills, leading to elementary swimming strokes.

PE183 (Not Liberal Arts) \$ African Dance 2 hrs. 1 crs. Techniques, practice, and rhythms in African dance.

PE184 (Not Liberal Arts) Latin Dance 2 hrs. 1 crs. This course introduces students to the basics and variations of Latin and salsa social dancing. Students will learn fundamental dance skills including basic rhythms, dance positions, floor alignments, and techniques of leading and following. 2 hours laboratory.

PE185 (Not Liberal Arts) Hip Hop Dance 2 hrs. 1 crs. This course introduces students to Hip-Hop dance technique and is designed to help learners to develop Hip-Hop skills through warm-ups, drills and choreographed routines. The students will be exposed to a broad Hip-Hop style in addition to exploring the historical and cultural components that drive the dance. 2 hours laboratory.

PE186 (Not Liberal Arts) Team Sports Officiating 2 hrs. 1 crs. This course will introduce student to history, styles, conflict management, fitness principles, legal responsibilities, and ethics of sports officiating. Students will be required to demonstrate the ability to officiate at least one sport offered at the secondary school level. Preq: One course selected from the Physical Education team skills courses or permission of department. 2 hours laboratory.

PE215 (Not Liberal Arts) Basics of Motor Development and Motor Learning 4 hrs. 3 crs. 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 (Not Liberal Arts) \$ Competitive Tennis 2 hrs. 1 crs. Advanced strokes and court strategy in playing competitive singles and doubles tennis. Preq: PE 171 or permission of instructor.

PE277 (Not Liberal Arts) Dance Composition 2 hrs. 1 crs. Basic elements of choreography, solo, and group work. Preq: PE 176 or permission of instructor.

PE278 (Not Liberal Arts) \$ Modern Dance II 2 hrs. 1 crs. Intensive study of Modern Dance techniques; emphasis on movement exploration and individual and group composition. Preq: PE 176 or permission of instructor.

PE279 (Not Liberal Arts) \$ Leadership in Outdoor Living 2 hrs. 1 crs. 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 (Not Liberal Arts) \$ Winter Mountaineering 2 hrs. 1 crs. 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 (Not Liberal Arts) \$ Swimming 2 hrs. 1 crs. Skill development in swimming; emphasis on individual development of good technique and stroke development.

PE284 (Not Liberal Arts) \$ Skin and Scuba Diving 2 hrs. 1 crs. 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 (Not Liberal Arts) \$ Senior Life Saving 2 hrs. 1 crs. 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 (Not Liberal Arts) \$ Water Safety Instructor 3 hrs. 2 crs. 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. Not open to students with credit in PE 286.

PE291 (Not Liberal Arts) Independent Study in Physical Activity 2 hrs. 1 crs. 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. Not open to students with credit in PE 330.

PE292 (Not Liberal Arts) Independent Study in Physical Activity 2 hrs. 1 crs. 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. Not open to students with credit in PE 330.

PE293 (Not Liberal Arts) Independent Study in Physical Activity 2 hrs. 1 crs. 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. Not open to students with credit in PE 330.

PE294 (Not Liberal Arts) Independent Study in Physical Activity 2 hrs. 1 crs. 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. Not open to students with credit in PE 330.

PE295 (Not Liberal Arts) Special Topic in Physical Activity 2 hrs. 1 crs. Students will learn rules, regulations, and techniques through physical participation in the activity. A selected area of physical activity which will vary with each offering: Graded on a Pass/No Credit basis except for physical education majors. Not offered on a regular basis. Availability to be determined by the department.

PE296 (Not Liberal Arts) Special Topic in Physical Activity 2 hrs. 1 crs. Students will learn rules, regulations, and techniques through physical participation in the activity. A selected area of physical activity which will vary with each offering: Graded on a Pass/No Credit basis except for physical education majors. Not offered on a regular basis. Availability to be determined by the department.

PE310 (Not Liberal Arts) Perceptual-Motor Activities for Children 3 hrs. 2 crs. 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 (Not Liberal Arts) Creative Rhythms and Dance for Children 2 hrs. 1 crs. 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 (Not Liberal Arts) Educational Gymnastics for Children 2 hrs. 1 crs. Basic movement principles of educational gymnastics for children. Not offered on a regular basis. Availability to be determined by the department.

PE313 (Not Liberal Arts) Games and Sports for Children 2 hrs. 1 crs. Application of movement principles to games and sports for children. Not offered on a regular basis. Availability to be determined by the department.

PE345 (Liberal Arts) History of Dance 3 hrs. 3 crs. 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 crs. 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 crs. 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 crs. 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 crs. 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 open to students with credit in PE 450. Not offered on a regular basis. Availability to be determined by the department.

PE358 (Liberal Arts) \$ Physiology of Exercise 4 hrs. 3 crs. Physiological responses and adaptations resulting from physical activity; emphasis on the muscle bioenergetics and metabolism as well as the cardiopulmonary responses to both acute and chronic exercise. Not open to students with credit in PE 352. This course includes lectures and laboratory activities. Preq: BIO 281 or BIO 234 and BIO 235 and Department permission required. Not open to students with credit in PE 352. (2 hrs. lecture; 2 hrs. laboratory) This course includes lectures and laboratory activities.

PE360 (Liberal Arts) Theory and Techniques of Coaching 2 hrs. 2 crs. 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.

PE361 (Liberal Arts) Sports Psychology and Coaching 3 hrs. 3 crs. Application of psychological concepts to the study of sports and skilled motor performance; influence of psychological variables on performance and behavior of the sports participant. Factors related to coaching strategies and techniques in sport settings. Methods of coaching individual, dual, and team sports; the coach's role in planning and implementing programs. Not open to students with credit in both Physical Education 355 and Physical Education 360.

PE362 (Liberal Arts) \$ Kinesiology 3 hrs. 3 crs. Anatomy of skeletal and muscular systems, mechanics of bodily movement, and detailed muscular analysis of skills used in physical activity. Preq: BIO 281 or BIO 234 and BIO 235 and Department permission required.

PE363 (Liberal Arts) Measurement and Evaluation in Health and Physical Education 3 hrs. 3 crs. 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. This course may be offered in a face-to-face or hybrid format. Not open to students with credit in HE 363.

PE365 (Liberal Arts) Research and Writing in Health and Physical Education 3 hrs. 3 crs. This course is designed to introduce the concepts and methodologies in modern scientific inquiry and create the foundation for research in health and physical education. Students will be required to read and interpret scientific research, evaluate professional literature, and communicate their ideas and findings through written assignments. Preq: ENG 126 and PE 363 or HE 363 or PH 320 or Department permission. This is a Writing Intensive (WI) course.

PE368 (Not Liberal Arts) Physical Education, Sports and Society 3 hrs. 3 crs. 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. Not open to students with credit in both PE 354 and PE 461.

PE452 (Not Liberal Arts) \$ Cardiovascular Fitness 4 hrs. 3 crs. 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. Not open to students with credit in HE 452. Students registering for this course are advised to register for PE 473 or PE 474 concurrently.

PE471 (Not Liberal Arts) Field Work in Physical Education and Recreation 2 hrs. 1 crs. 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 (Not Liberal Arts) Field Work in Physical Education and Recreation 2 hrs. 1 crs. 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 (Not Liberal Arts) Field Work in Physical Education and Recreation 4 hrs. 2 crs. 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 (Not Liberal Arts) Field Work in Physical Education and Recreation 4 hrs. 2 crs. 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 crs. Factors involved in the administration and supervision of programs, facilities, and personnel in physical education. Preq: Senior status and physical education major. Not open to students with credit in HE 481.

PE491 (Liberal Arts) Special Seminar in Physical Education 2 hrs. 2 crs. 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 crs. 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.

PE493 (Liberal Arts) Special Seminar in Physical Education 3 hrs. 3 crs. Intensive study of a special area of interest in physical education. Preq: 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 crs. Intensive study of a special area of interest in physical education. Preq: 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 crs. 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. Preq: Agreement of faculty member to act as advisor.

PE496 (Liberal Arts) Independent Study in the Scientific Foundations of Physical Education 2 hrs. 2 crs. 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. Preq: Agreement of faculty member to act as advisor.

PE497 (Liberal Arts) Independent Study in the Scientific Foundations of Physical Education 1 hrs. 1 crs. 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. Preq: Agreement of faculty member to act as advisor.

PE498 (Liberal Arts) Independent Study in the Scientific Foundations of Physical Education 1 hrs. 1 crs. 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. Preq: Agreement of faculty member to act as advisor.

Physical Education Athletic Training

PEAT318 (Not Liberal Arts) Field Work: Introduction to Athletic Training and Sports Medicine 7 hrs. 1 crs. 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. Coreq: PEAT 310.

PEAT330 (Not Liberal Arts) Scientific Basis in Athletic Training 3 hrs. 3 crs. This course emphasizes the pathology of sports injuries and related conditions induced by training. Preq: PEAT 320, and PE 358. Coreq: PEAT 338.

PEAT340 (Not Liberal Arts) Modalities and Management Strategies in Athletic Training 3 hrs. 3 crs. 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. Preq: PEAT 330. Coreq: PEAT 348.

PEAT348 (Not Liberal Arts) Field Work: Modalities and Management Strategies in Athletic Training 20 hrs. 3 crs. 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. Coreq: PEAT 340.

Public Health

PH201 (Liberal Arts) \$ History & Principles of Public Health 3 hrs. 3 crs. This course is designed to introduce the novice learner to the history and enterprise of public health and strategies used in public health promotion and disease prevention initiatives. The course will provide students with an opportunity to learn about past, present and future key public health topics of importance, and to apply public health strategies to prevent or minimize these problems among culturally diverse populations across the lifespan. Preq: ENG 125. This course may be offered in a face-to-face, hybrid or asynchronous online format.

PH210 (Liberal Arts) Epidemiology for Public Health Practice 3 hrs. 3 crs. This course is designed to introduce students to background, basic principles and methods of public health epidemiology. Particular emphasis is on applying epidemiologic methods to public health problems such as measures of disease frequency, study designs and bias, effect modification, outbreak investigations, screening, causality and ethical issues. Students will develop skills to read, interpret and evaluate health information from published epidemiologic studies. Preq: PH 201. This course may be offered in a face-to-face, hybrid or asynchronous online format.

PH215 (Not Liberal Arts) Social & Behavioral Determinants of Health 3 hrs. 3 crs. This course introduces students to the various biological, psychological, socio-cultural, economic, environmental, institutional, organizational and political factors influencing health behavior and relevant disparities in health outcomes. Students are exposed to core theories and models used in the analysis of health behavior and outcomes from a systems perspective. Emphasis is placed on applying theories/models at various levels of influence to current health problems as a basis for intervention design. Preq: PH 201.

PH225 (Not Liberal Arts) Principles & Practices of Health Behavior Change 3 hrs. 3 crs. This course introduces students to techniques used in initiating and maintaining change for a variety of health behaviors such as healthy eating, physical activity, smoking cessation, stress reduction, substance abuse prevention and chronic disease maintenance. Emphasis is placed on the integration of both established and more innovative methods such as stages of change theory, relapse prevention and motivational interviewing from a public health perspective. Students are expected to apply these practices to specific health problems and associated behaviors to promote health among various populations in a variety of settings. Preq: PH 215, 3 credits in PSY.

PH285 (Liberal Arts) Health Equity & Cultural Responsiveness 3 hrs. 3 crs. This course is designed to explore health disparities and associated biopsychosocial determinants in the US. Traditionally underserved racial, ethnic and immigrant communities and emerging groups with disparities based upon age, gender, sexual orientation and identity, disability/ability, physical and mental health, geography and environment will be analyzed from a systems perspective. The role of culture, socioeconomic status, health literacy, and social and community networks will be examined. Cultural responsiveness, advocacy, and social justice will be explored as approaches for promotion of health equity.

PH320 (Liberal Arts) \$ Applied Biostatistics in Public Health 3 hrs. 3 crs. This survey course is designed to provide students with basic knowledge and skills to conduct statistical techniques applied to tests and measurements in public health. It will concentrate on the interpretation and comprehension of graphical and statistical techniques that are important components of research and public health practice. Students will be exposed to topics such as vital statistics, and the evaluation of tools to measure health attitudes, knowledge, and behavior. In addition, students will learn to use computer software for statistical analysis. Preq: MATH 111; PH 210. This course may be offered in a face-to-face, hybrid or asynchronous online format.

PH325 (Not Liberal Arts) Assessing Community Health Needs, Capacity & Assets 3 hrs. 3 crs. This course focuses on the practices and tools to assess perceived and actual community health needs, assets and capacity to develop and implement public health interventions. Students are introduced to techniques for using secondary data (e.g., publicly available health department data) to examine community health status as well as methods for collecting primary data (e.g., surveys, focus groups, interviews) to help support the development of a rationale for public health intervention design and implementation. Emphasis is placed on conducting assessments and interpreting and prioritizing findings with community members, community leaders, community-based organizations, health providers and others. Preq: PH 215, PH 320. Department Permission Required.

PH330 (Not Liberal Arts) Public Health Policy & Management 3 hrs. 3 crs. This course provides students with an understanding of the management processes and roles of public health professionals, particularly those of public, private and voluntary public health service agencies. Topics covered include public health administration and organization, strategic planning and performance management, policy development, public health finance and law, human resource management, and health informatics. Preq: PH210.

PH335 (Not Liberal Arts) Planning & Funding for Public Health 3 hrs. 3 crs. This course prepares students to analyze the planning and development process for community-based, -focused and -driven public health programs and policies. The PRECEDE-PROCEED model is used as a planning framework with other models, such as Intervention Mapping, highlighted. Logic modeling, constructing a letter of intent, working with a host agency and identifying sources of funding are covered. Emphasis is placed on integration of epidemiology, biostatistics, proposal writing and project budget planning. Preq: WRIT 303, PH 325. Department Permission Required.

PH340 (Not Liberal Arts) Environmental & Occupational Health 3 hrs. 3 crs. This course introduces students to physical, chemical and biological hazards found in the environment and public health risks associated with workplace and community exposure to them. The current state of occupational safety and health in the United States, specifically New York City, as well as global environmental health is explored, including enforcement of laws regulating occupational safety and health and the roles of workers, unions, and employers. The

historical, economic, and cultural forces contributing to and inhibiting solutions to occupational and environmental safety and public health problems are analyzed. Preq: PH 210.

PH343 (Not Liberal Arts) Sexual and Gender Minority Health Perspectives 3 hrs. 3 crs. This course introduces students to health challenges faced by sexual and gender minority populations (e.g., self-identified lesbian, gay, bisexual, and transgender individuals, same-sex attracted persons, asexual persons, gender non-conforming individuals, intersex persons, men who have sex with men and women who have sex with women). Using an interdisciplinary approach, students will explore sexual and gender minority communities from a population health perspective. Topics covered include terminology and history related to sexual and gender minority health, the composition of communities, and health disparities with a focus on achieving health equity among sexual and gender minority individuals. Preq: ENG 126.

PH415 (Not Liberal Arts) Community Health Intervention Design & Methods 3 hrs. 3 crs. This course prepares students to design, adapt and implement public health interventions within the context of community health settings. Emphasis is placed on a variety of community health methods and strategies including, but not limited to, individual and group facilitation, adaptation and intervention material development, health communications, social marketing and social media, legislative action and involvement, community organization, and public health advocacy. Students are expected to produce several examples of evidence-informed intervention materials and methods. Preq: PH; 225; PH 335. Department Permission Required. Coreq: PH 435.

PH425 (Not Liberal Arts) Evaluation Methods in Public Health 3 hrs. 3 crs. This course provides a theoretical introduction to, and applied experience with, methods for undertaking public health program/policy monitoring and evaluation. Activities include designing and presenting an evaluation proposal using standards set by federal funding agencies and other stakeholders, practical problem solving in applying monitoring and evaluation methods in the field, and critiquing published evaluation reports. Emphasis is placed on using a systems approach to identify key constituencies and tasks and on ethical conduct in public health monitoring and evaluation. Preq: PH 415, PH 435. Department permission required. Coreq: PH 445, PH 450.

PH435 (Not Liberal Arts) Field Experience I 2 hrs. 2 crs. This course is the first part of the culminating field experiences that broaden exposure to public health practice, facilitate valuable work experience, and increase knowledge of specific career opportunities. Placements are semester long (140 hours) and are provide the opportunity to observe a public health professional in practice, complete a project that is mutually beneficial to the student and the organization, and synthesize knowledge and skills into public health practice. Students attend mandatory seminars in which principles and practices of public health are examined and awareness of the needs, challenges, and career opportunities in the field is broadened. As a co-requisite for PH 415, emphasis is placed on public health practice that involves the design and implementation of public health intervention materials and methods. Preq: PH 325. Department Permission Required. Coreq: PH 415. 140 contact hours field experience.

PH445 (Not Liberal Arts) Field Experience II 2 hrs. 2 crs. This course is the second part of the culminating field experiences that broaden exposure to public health practice, facilitate valuable work experience, and increase knowledge of specific career opportunities. Placements are semester long (140 hours) and provide the opportunity to observe a public health professional in practice, complete a project that is mutually beneficial to the student and the organization, and synthesize knowledge and skills into public health practice. Students attend mandatory seminars in which principles and

practices of public health are examined and awareness of the needs, challenges, and career opportunities in the field is broadened. As a co-requisite for PH 425 and PH 450, emphasis is placed on public health practice that involves the evaluation and/or research of public health topics and/or interventions as well as public health leadership. Preq: PH 415, PH 435. Department Permission Required. Coreq: PH 425, PH 450. 140 contact hours field experience.

PH450 (Not Liberal Arts) Public Health & Societies 3 hrs. 3 crs. This capstone course is part of the culminating experiences that broaden exposure to public health practice, facilitate valuable work experience and increase knowledge of specific career opportunities. Students are expected to participate in course activities as pre-service public health practitioners. Students engage in real-world public health practice issues such as communicating with the public, advocating for health promotion and policy, and developing effective oral and written presentations. Leadership techniques in recruiting and retaining effective team members and improving organizational quality and morale are covered. Preq: PH 415, PH 435. Department Permission Required. Coreq: PH 425, PH 445. This is a Writing Intensive course.

Philosophy

PHIL101 (Liberal Arts) Freedom and Reason 3 hrs. 3 crs. 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 crs. 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. Preq: ENG 125. Coreq: ENG 125. [Flexible Core: Scientific World]

PHIL103 (Liberal Arts) Introduction to Philosophy 3 hrs. 3 crs. Basic concepts and techniques of philosophical thinking. Preq: ENG 125. Coreq: ENG 125. [Flexible Core: Individual and Society]

PHIL104 (Liberal Arts) Introduction to Knowledge and Value 3 hrs. 3 crs. 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. Preq: ENG 125. Coreq: ENG 125. Not offered on a regular basis. Availability to be determined by the department.

PHIL121 (Liberal Arts) Beginning Deductive Logic 3 hrs. 3 crs. Introduction to the logic of propositions and arguments. Preq: ENG 125. Coreq: ENG 125.

PHIL202 (Liberal Arts) Major Ideas and Issues in Education 3 hrs. 3 crs. 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. Not open to students with credit in SOC 202. Required for all teacher education. Includes seven (7) hours of fieldwork. Required for all teacher education students. This course is cross listed with SOC 202. This is a Writing Intensive course.

PHIL203 (Liberal Arts) Philosophy of Women 3 hrs. 3 crs. 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 crs. 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 crs. Philosophy from Pre-Socratics times 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 crs. 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. Comparison of distinctive doctrines of individual philosophers and of the three traditions. Preq: ENG 125 and PHIL 102 or 103 or 121. This is a Writing Intensive course.

PHIL213 (Liberal Arts) Modern Philosophy 3 hrs. 3 crs. 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 crs. 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 (Not Liberal Arts) Latin American Philosophy 3 hrs. 3 crs. 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 crs. 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 crs. 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) Ethics, Business, and Society 3 hrs. 3 crs. This course explores basic approaches to ethical reasoning and values identification, with emphasis on relationships between consumers, business professionals, corporations, and society. Preq: ENG 125.

PHIL241 (Liberal Arts) Philosophical Psychology 3 hrs. 3 crs. 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 crs. 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) Healthcare Ethics 3 hrs. 3 crs. This course examines ethical issues embedded in the organization, practice, and delivery of healthcare in the United States. Special emphasis is placed on the experience of healthcare providers, patients, and families. Preq: PHIL 102 or PHIL 103 or PHIL 104 or PHIL 121.

PHIL322 (Liberal Arts) Philosophy of Science 3 hrs. 3 crs. 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 crs. This course is a focused examination of selected themes and figures in philosophy from 1900-present. Preq: PHIL 102 or PHIL 103 or PHIL 104 or PHIL 121; WRIT 301 or WRIT 302 or WRIT 303 or WRIT 304. This is a Writing Intensive course.

PHIL351 (Liberal Arts) Ethics 3 hrs. 3 crs. A study of concepts and theories of ethics and their application to personal and professional life. Preq: PHIL 102 OR PHIL 103 OR PHIL 121 OR PHIL 122 OR PHIL 202 OR SOC 202.

PHIL352 (Liberal Arts) Philosophy of Art 3 hrs. 3 crs. 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 crs. 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.

PHIL354 (Liberal Arts) Philosophy of Religion 3 hrs. 3 crs. 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 crs. 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 crs. 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 crs. 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 crs. 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 crs. 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 3 hrs. 3 crs. Philosophical inquiry on a problem determined by the student in consultation with the philosophy faculty. Preq: Department permission required. Hours arranged.

PHIL498 (Not Liberal Arts) Independent Study 3 hrs. 3 crs. Philosophical inquiry on a problem determined by the student in consultation with the philosophy faculty. Preq: Department permission required. Hours arranged.

PHIL499 (Liberal Arts) Independent Study 3 hrs. 3 crs. Philosophical inquiry on a problem determined by the student in consultation with the philosophy faculty. Preq: Department permission required. Hours arranged.

Pharmaceutical Science

PHS110 (Liberal Arts) Medicines and Drugs of Abuse 3 hrs. 3 crs. The history, biochemistry, pharmacology and societal impact of major categories of medicines and drugs. Includes a laboratory component. [Required Core: Life and Physical Sciences]

PHS300 (Liberal Arts) Fundamentals of Pharmaceutical Sciences 3 hrs. 3 crs. This course is designed to provide a comprehensive introduction to pharmaceutical sciences. Topics covered include small molecule drugs, biologics and vaccines; discovery and development; pharmaceutical microbiology and immunology; along with elements of formulation, regulation, approval process and ethics, with case studies. Preq: CHEM 231; CHEM 232.

PHS301 (Liberal Arts) Pharmaceutics 3 hrs. 3 crs. 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 231, CHEM 232 and CHEM 321; PHS 300.

PHS350 (Liberal Arts) Pharmaceutical Manufacturing and Applicable Regulations 3 hrs. 3 crs. This course is designed to provide an introductory overview of manufacturing and applicable regulations in the pharmaceutical industry. Preq: BIO 301.

PHS360 (Liberal Arts) Regulation of Pharmaceuticals 3 hrs. 3 crs. This course is designed to provide an introductory overview of US laws regulating pharmaceuticals, application processes for clinical development and marketing new drugs and biologics, pharmacopeias, FDA review and action letters. Preq: PHS 350.

PHS401 (Liberal Arts) Pharmacology 3 hrs. 3 crs. 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 or CHEM 460.

PHS480 (Liberal Arts) \$ Independent Study 6 hrs. 3 crs. Individually guided laboratory investigations of advanced topics relevant to pharmaceutical research and drug discovery. Preq: Department permission required. 6 hours laboratory. This is a Writing Intensive course.

PHS481 (Liberal Arts) Independent Study 6 hrs. 3 crs. Individually guided investigations of an advanced topic relevant to pharmaceutical research and drug discovery. A formal report on topic is required. Pass/Fail after 3 credits of Independent Study in Natural Sciences have been completed. Preq: Department permission required. 6 hours laboratory.

PHS490 (Liberal Arts) \$ Internships in Pharmaceutical Science 1 hr instruction, minimum 120 work experience hrs. 3 crs. Internship at the U.S. Food and Drug Administration or a pharmaceutical

company. Preq: Department permission required. This is a Writing Intensive course. Not open to students with a combined total of 12 credits in Independent Study in Pharmaceutical Science. 1 hour of instruction every week, minimum 120 hours work experience per semester.

PHS491 (Liberal Arts) Internship in Pharmaceutical Science II 6 hrs. 3 crs. Internship at the U. S. Food and Drug Administration (FDA), pharmaceutical company, pharmacy or related institution with a minimum 120 hours work experience per semester. Pass/Fail after 3 credits of Independent Study in Natural Sciences have been completed. Preq: Department permission required. 6 hours laboratory.

PHS501 (Liberal Arts) Pharmaceutical Discovery and Development 3 hrs. 3 crs. The drug discovery and development processes; identification and validation of target molecules; identification and optimization of active substances; preclinical and clinical development; formulation; drug delivery systems, with emphasis on solid dosage forms. Preq: Formal admission to the MS Pharmaceutical Science and Business Program.

PHS502 (Not Liberal Arts) \$ Pharmaceutical Discovery and Development Techniques 5 hrs. 3 crs. The basic process of production and characterization of biologics; validation of analytical methods; characterization of solid state drugs; manufacturing of tablets; generation of manufacturing documents. Preq: Formal admission to the MS Pharmaceutical Science and Business Program. 1 hour lecture, 4 hours laboratory.

PHS503 (Liberal Arts) Advanced Pharmacology 3 hrs. 3 crs. The basic principles of pharmacology; general principles of drug action; pharmacokinetics; pharmacodynamics; neuropharmacology; cardiovascular pharmacology; endocrine pharmacology; pharmacology of chemotherapeutic agents. Preq: Formal admission to the MS Pharmaceutical Science and Business Program.

PHS504 (Liberal Arts) Advanced Biostatistics 3 hrs. 3 crs. Biostatistical methods with emphasis on those generally used in the design of clinical trials for development of pharmaceuticals for human use. Preq: Formal admission to the MS Pharmaceutical Science and Business Program.

PHS505 (Liberal Arts) Foundations of Regulatory Affairs 3 hrs. 3 crs. US Federal laws, regulations, procedures and guidelines that control drugs and biologics during their development, production and distribution stages; the functions of the US Food and Drug Administration (FDA) and their impact on the approval process. Preq: Formal admission to the MS Pharmaceutical Science and Business Program.

PHS506 (Liberal Arts) Pharmaceutical Ethics and Intellectual Property Management 3 hrs. 3 crs. Ethical and economic issues related to pharmaceutical research and clinical trials; policy considerations; scientific misconduct; control of intellectual property. Preq: Formal admission to the MS Pharmaceutical Science and Business Program.

PHS507 (Liberal Arts) Pharmaceutical Industry and Business 3 hrs. 3 crs. This course introduces to pharmaceuticals and its scope and provides an overall look at the pharmaceutical industry, market structure, and past and current trends. It discusses historical background and pharmaceutical industry characteristics in United States. It also identifies business issues, challenges, and opportunities in the future. Preq: Formal admission to the MS Pharmaceutical Science and Business Program.

PHS508 (Liberal Arts) Pharmaceutical Industry and Business Capstone Project 3 hrs. 3 crs. Research or internship in pharmaceutical sciences. Preq: Formal admission to the MS Pharmaceutical Science and Business Program.

PHS509 (Liberal Arts) Biotherapeutics 3 hrs. 3 crs. Development, production, validation, regulation and case studies of biotherapeutic pharmaceutical products. Preq: Formal admission to the MS Pharmaceutical Science and Business Program; PHS 501.

PHS510 (Liberal Arts) \$ Advanced Pharmaceutics 3 hrs. 3 crs. Basic scientific principles in the design of drug delivery systems, with emphasis on liquid dosage forms, nanomedicine, and controlled drug delivery systems. Preq: Formal admission to the MS Pharmaceutical Science and Business Program; PHS 501.

PHS511 (Liberal Arts) Special Topics in Pharmaceutical Discovery and Development 3 hrs. 3 crs. State-of-the-art special topics in the areas of pharmaceutical discovery and development. Preq: Formal admission to the MS Pharmaceutical Science and Business Program; PHS 501.

PHS512 (Liberal Arts) Pharmaceutical Quality Assurance, Process Validation and Controls 3 hrs. 3 crs. The basic principles of quality control and validation of pharmaceutical manufacturing processes; basic elements of pharmaceutical production, including packaging, equipment, personnel and Good Manufacturing Practices (GMPs). Preq: Formal admission to the MS Pharmaceutical Science and Business Program; PHS 505.

PHS513 (Liberal Arts) Design of Clinical Trials 3 hrs. 3 crs. Design and development of clinical trials of pharmaceutical products; applications of specific biostatistical methods. Preq: Formal admission to the MS Pharmaceutical Science and Business Program; PHS 504.

PHS514 (Liberal Arts) Advanced Toxicology 3 hrs. 3 crs. The mechanisms by which toxicants enter the body and the biotransformation processes that result in disease-producing entities; cellular mechanisms of toxicity and the major target organs affected by toxins; some applications of toxicology, such as clinical toxicology and regulatory toxicology. Preq: Formal admission to the MS Pharmaceutical Science and Business Program; PHS 503.

PHS515 (Liberal Arts) International Regulatory Affairs 3 hrs. 3 crs. Study of the relations between international regulatory authorities and analysis of the regulatory processes for pharmaceuticals in the European Union, Japan, Canada, South America, China and India. Preq: Formal admission to the MS Pharmaceutical Science and Business Program; PHS 505.

PHS516 (Liberal Arts) Pharmaceutical Product Labeling 3 hrs. 3 crs. The regulations and laws on the requirements for drug labeling in the United States and other countries. Labeling issues generated by post-marketing surveillance activities and alterations in federal regulation or guidance will be discussed. Preq: Formal admission to the MS Pharmaceutical Science and Business Program; PHS 505.

PHS517 (Liberal Arts) Writing and Submission of Regulatory Applications 3 hrs. 3 crs. Basic principles in the development and preparation of the common technical documents required for the submission of regulatory applications. Preq: Formal admission to the MS Pharmaceutical Science and Business Program; PHS 505.

PHS518 (Liberal Arts) Pharmaceutical Supply Chain Management 3 hrs. 3 crs. Pharmaceutical industry consists of a variety of suppliers, manufacturers, service providers and government. In order to achieve operational excellence and increase customer satisfaction, Supply Chain Management (SCM) integrates all activities in the process from procurement of materials to delivery to customers. This course examines knowledge and strategies of SCM and its application to the pharmaceutical industry. It explores the unique issues in recent pharmaceutical industry such as regulation, security and government role. Preq: Formal admission to the MS Pharmaceutical Science and Business Program.

PHS519 (Liberal Arts) Pharmaceutical Marketing 3 hrs. 3 crs. This course provides an understanding of current pharmaceutical marketing environment and the role of the marketing department in the organization. It will present an overview of general marketing principles including marketing mix (4P- price, product, promotion, and place) and then apply them to all aspects of marketing pharmaceuticals. Preq: Formal admission to the MS Pharmaceutical Science and Business Program.

PHS520 (Liberal Arts) Pharmaceutical Product Management 3 hrs. 3 crs. This course focuses on Product Lifecycle Management (PLM) in pharmaceutical industry. PLM is a business transformation approach to manage products across the enterprise and it includes drug development, competitive analysis, and coordination with the sales force. Preq: Formal admission to the MS Pharmaceutical Science and Business Program; PHS 519.

PHS521 (Liberal Arts) Pharmaceutical Project Management 3 hrs. 3 crs. Project management is the process and activity of planning, organizing, and controlling resources and procedures to produce a specific output. This course examines knowledge, skills and techniques for project management and applies them to pharmaceutical project management with the unique features, such as regulatory, compliance and quality related needs. Preq: Formal admission to the MS Pharmaceutical Science and Business Program; PHS 519.

Physics

PHYS113 (Liberal Arts) \$ Physics Laboratory I 2 hrs. 1 crs. Introduction to instrumentation, data acquisition, analysis, and presentation. Experiments include: equilibrium; motion, energy and momentum measurements; harmonic oscillations; elasticity; and heat. Not open to students with credit in PHYS 151. Coreq: PHYS 115 or 117. [Required Core: Life and Physical Sciences]

PHYS114 (Liberal Arts) \$ Physics Laboratory II 2 hrs. 1 crs. Continuation of PHYS 113. Experiments include: electrical properties of matter, circuits and instrumentation, optics. Not open to students with credit in PHYS 152. Preq: PHYS 113. Coreq: PHYS 116 or 118. [Flexible Core: Scientific World]

PHYS115 (Liberal Arts) College Physics I 5 hrs. 4 crs. An introduction, intended for life science majors, to the basic concepts of physics. Topics may include: equilibrium, motion, Newton's laws, gravitation, work and energy, momentum, rotation, harmonic motion, statics and dynamics of fluids, thermal properties of matter. Not open to students with credit in PHYS 151 or 117. Preq: MATH 120 or equivalent. Coreq: PHYS 113. 3 hr lecture, 2 hr recitation. [Required Core: Life and Physical Sciences]

PHYS116 (Liberal Arts) College Physics II 5 hrs. 4 crs. Continuation of Physics for life science majors. Topics may 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 115 or 117. Coreq: PHYS 114. Not open to students with credit in PHYS 152 or 118. [Flexible Core: Scientific World]

PHYS117 (Liberal Arts) University Physics I 5 hrs. 4 crs. An introduction, intended for science majors, to the basic concepts of calculus-based physics. Topics may include: equilibrium, motion, Newton's laws, gravitation, work and energy, momentum, rotation, harmonic motion, statics and dynamics of fluids, thermal properties of

matter. Coreq: MATH 121, PHYS 113. 3 hr lecture, 2 hr recitation. Not open to students with credit in PHYS 151. [Required Core: Life and Physical Sciences]

PHYS118 (Liberal Arts) University Physics II 5 hrs. 4 crs. Continuation of Physics with calculus for science majors. Topics may 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 117. Coreq: MATH 122, PHYS 114. 3 hr lecture, 2 hr recitation. Not open to students with credit in PHYS 152. [Flexible Core: Scientific World]

PHYS140 (Liberal Arts) \$ The Physical Universe 4 hrs. 3 crs. A survey of the basic concepts of physics. Topics may include: mechanics, properties of matter, heat, sound, electricity & magnetism, light, atomic and nuclear physics. This is an elementary course for non-science majors. This course includes: lectures, laboratory activities, and basic problem solving. In-class demonstrations complete this course. 2 hr lecture, 2 hr laboratory. [Required Core: Life and Physical Sciences]

PHYS231 (Liberal Arts) Oscillations and Waves 4 hrs. 3 crs. A study of oscillation and wave phenomena: simple harmonic motion; damped-driven oscillators; the wave equation; transverse and longitudinal waves; superposition, beats, harmonics; complex numbers/functions and Fourier methods; optical wave phenomena, polarization, interference, diffraction; transmission lines. Preq: PHYS 118, 114. Coreq: MATH 221.

PHYS241 (Liberal Arts) Modern Physics 4 hrs. 3 crs. Special relativity, black body radiation, Planck's quantization law, radioactivity, discoveries of electron and atomic structure, particle-wave duality, Bohr atom, introduction to quantum theory, Schrodinger's equation, the hydrogen atom, high energy physics. Preq: PHYS 118 and PHYS 114. Coreq: MATH 221.

PHYS282 (Liberal Arts) Weather and Climate 4 hrs. 3 crs. 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.

PHYS312 (Liberal Arts) Classical Mechanics I 4 hrs. 3 crs. Review of Newtonian Mechanics, conservation laws, oscillatory phenomena; variational methods; Lagrangian Mechanics; central forces and orbital dynamics; rigid body rotations; coupled oscillations and normal modes; special relativity. Preq: PHYS 231. Coreq: PHYS 231.

PHYS321 (Liberal Arts) Electricity and Magnetism I 4 hrs. 3 crs. 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 118. Coreq: MATH 223.

PHYS351 (Liberal Arts) Statistical Mechanics 4 hrs. 3 crs. 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 118, MATH 221.

PHYS383 (Liberal Arts) Modern Physics Laboratory 5 hrs. 3 crs. 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 113, PHYS 114. Coreq: PHYS 241 or CHEM 322. 1 hour lecture, 4 hours laboratory. This is a Writing Intensive course.

PHYS410 (Liberal Arts) Methods of Theoretical Physics 3 hrs. 3 crs. A study of the mathematical techniques used in theoretical physics, including applications; multiple integrals, line and surface integrals; vector and tensor analysis; the ordinary and partial differential equations of mathematical physics, series solutions, special functions, integral transforms; functions of a complex variable, analyticity, Cauchy's theorem, residues. Coreq: MATH 223, MATH 333.

PHYS412 (Liberal Arts) Classical Mechanics II 3 hrs. 3 crs. Review of variational methods and Lagrangian Mechanics; Mechanics in Noninertial Frames; Rigid Body Motion and Euler Angles; Hamiltonian Mechanics, Poisson brackets and commutators, canonical transformations, Hamilton-Jacobi equation; nonlinear mechanics and chaos; continuum mechanics. Preq: PHYS 312. Coreq: MATH 333. Availability to be determined by the department.

PHYS422 (Liberal Arts) Electricity and Magnetism II 3 hrs. 3 crs. 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) Modern Optics 3 hrs. 3 crs. Review of classical optics in the geometric and physical limits; introduction to quantum optics: lasers and masers; introduction to nonlinear optics and modern applications. Preq: PHYS 231, PHYS 241 or CHEM 322. Coreq: MATH 223.

PHYS441 (Liberal Arts) Quantum Mechanics and Atomic Physics 4 hrs. 3 crs. 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 231, PHYS 241 or CHEM 322, MATH 223. Coreq: MATH 333.

PHYS442 (Liberal Arts) Nuclear and Particle Physics 3 hrs. 3 crs. Introduction to the Standard Model of Nuclear and Particle Physics: historical development and experimental evidence; the fundamental forces and constituents of nature; introduction to tree-level calculations via Feynman diagrams; nuclear structure, stability, and decay; experimental techniques; survey of current topics and theories of beyond-Standard Model physics. Preq: PHYS 241 or CHEM 322. Coreq: MATH 223.

PHYS461 (Liberal Arts) Solid State Physics 3 hrs. 3 crs. 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. Coreq: MATH 223.

PHYS491 (Liberal Arts) Astrophysics I: Planetary Astronomy 3 hrs. 3 crs. Basic physics of plasmas; orbital motions; the internal structure, atmospheres, magnetism and formation of the planets; dynamics of moons and rings; solar activity. Coreq: PHYS 351 or CHEM 322. Cross-listed with ASTR 491.

PHYS492 (Liberal Arts) Astrophysics II: Stellar Astronomy 3 hrs. 3 crs. 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. Coreq: PHYS 351 or CHEM 322. Cross-listed with ASTR 492.

PHYS493 (Liberal Arts) Astrophysics III: Extragalactic Astronomy 3 hrs. 3 crs. Galaxies and galaxy clusters; the extragalactic nuclei; distance scale and Hubble's Law; quasars and active galactic nuclei; general relativity; distances and luminosities

in cosmology. Origin and fate of the universe: the Big Bang, cosmic background radiation. Preq: PHYS 351 or CHEM 322. Cross-listed with ASTR 493.

PHYS495 (Liberal Arts) Independent Study 6 hrs. 3 crs. 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. Not open to students with a combined total of 12 credits in Independent Study in the Natural Sciences Department. PASS/FAIL after 6 credits of Independent Study in Natural Sciences have been completed. A student may register for only one independent study course in the Natural Sciences Department per semester, intersession or summer session. Minimum 6 hours per week.

PHYS496 (Liberal Arts) Independent Study 6 hrs. 3 crs. 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. Not open to students with a combined total of 12 credits in Independent Study in the Natural Sciences Department. PASS/FAIL after 6 credits of Independent Study in Natural Sciences have been completed. A student may register for only one independent study course in the Natural Sciences Department per semester, intersession or summer session. Minimum 6 hours per week.

Political Science

POL101 (Liberal Arts) Introduction to Politics 3 hrs. 3 crs. Survey of the basic concepts of politics through the study of contemporary issues and problems. [Flexible Core: Individual and Society]

POL103 (Liberal Arts) Politics and Government in the United States 3 hrs. 3 crs. 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. [Flexible Core: U.S. Experience in its Diversity]

POL111 (Not Liberal Arts) Introductory Topics in Political Science 3 hrs. 3 crs. 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 crs. 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 crs. Introduction to theories and techniques of comparative analysis; comparative study of political processes and performance in selected industrial and developing countries. Preq: ENG 125. [Flexible Core: World Cultures and Global Issues]

POL210 (Liberal Arts) Introduction to Political Economy 3 hrs. 3 crs. 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: 3 credits in Political Science or permission of the instructor.

POL211 (Liberal Arts) Intermediate Topics in Political Science 3 hrs. 3 crs. Analysis of selected contemporary issues of broad local, national and international significance. Preq: 3 credits in Political Science or permission of the instructor.

POL212 (Liberal Arts) Intermediate Topics in Political Science 3 hrs. 3 crs. Analysis of selected contemporary issues of broad local, national and international significance. Preq: 3 credits in Political Science or permission of the instructor.

POL214 (Liberal Arts) Racial and Ethnic Politics 3 hrs. 3 crs. A comparative analysis of the politics of racial and ethnic groups in American society; problems of assimilation and alienation. Preq: ENG 125 and POL 103 or permission of instructor.

POL219 (Liberal Arts) Psychology of Terrorism 3 hrs. 3 crs. 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. Psychological constructs and Political Psychology theory will be considered for their salience in helping to reach an understanding of terrorism. The course will explore the political and psychological effects of terrorism. Preq: ENG 125 and (PSY 102 or 3 credits in Political Science). This course is cross-listed with PSY 219. Not open to students with credit in PSY 219.

POL221 (Liberal Arts) Research Methods in Political Science 3 hrs. 3 crs. This course emphasizes the use of qualitative methods of research in the field of political science and social science. Preq: ENG 125 and 3 credits in Political Science or permission of instructor.

POL222 (Liberal Arts) Social Research Methods I 4 hrs. 3 crs. Introduction to the logic of inquiry; qualitative and quantitative methods of data collection and analysis; introduction to statistical analysis; writing and interpreting research reports; using computers for statistical analysis. Experimental, survey, and ethnographic methods will be emphasized. Preq: ANTH 101 or SOC 101 or POL 101 or POL 103. Cross-listed with ANTH 220 and SOC 220. This course may be offered in a face-to-face or hybrid format. Not open to students with credit in ANTH 220 or SOC 220 or SCWK 350. 2 hours lecture, 2 hours laboratory.

POL226 (Liberal Arts) U.S. Supreme Court 3 hrs. 3 crs. 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 and POL 103 or permission of instructor.

POL228 (Liberal Arts) \$ Public Administration in the Political Setting 3 hrs. 3 crs. 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 and POL 103 or permission of the instructor.

POL230 (Liberal Arts) Correctional Administration 4 hrs. 3 crs. 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: 3 credits in Political Science.

POL231 (Liberal Arts) The Electoral Process 3 hrs. 3 crs. Analysis of the structure and function of political parties: organization and leadership, campaigns, public opinion, and electoral behavior. Preq: 3 credits in Political Science or permission of the instructor.

POL233 (Liberal Arts) Introduction to Aviation Safety and Security 0 hrs. 3 crs. 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 include objectives and motivations of groups and individuals. Airport, airline, and terminal security programs are developed and presented in accordance with applicable FAA (Federal Aviation Administration) regulations and ICAO (International Civil Aviation Organization) procedures and agreements. Application of profiles, technology, and current security measures are presented as they apply to the defense against loss of life and property. Emphasis is placed on the global nature of security issues. Preq: ENG 125 and POL 103. Hours to be arranged.

POL241 (Liberal Arts) \$ International Politics 3 hrs. 3 crs. Survey of the international system; an assessment of main forces involved in conflict and resolution; major components in international bargaining. Preq: ENG 125 or permission of the instructor. [Flexible Core: World Cultures and Global Issues]

POL250 (Liberal Arts) Latin American Politics 3 hrs. 3 crs. 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: 3 credits in Political Science or permission of the instructor.

POL251 (Liberal Arts) Puerto Rican Politics 3 hrs. 3 crs. 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: 3 credits in Political Science or permission of the instructor.

POL252 (Liberal Arts) Cuban Politics 3 hrs. 3 crs. 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: 3 credits in Political Science or permission of the instructor.

POL253 (Liberal Arts) Caribbean Politics 3 hrs. 3 crs. This course will broadly explore the political systems of the Caribbean, and comparatively examine sovereign and non-sovereign Caribbean states and political entities. It looks at how they have been impacted by various influences including from the indigenous, Africa, Asia, Europe, and the Americas. Analysis includes the history, culture, economics, and political institutions of former and current colonial states and metropolises and the costs and benefits of decolonization and sovereignty, the role of international and regional multilateral institutions, as well as the impact of migration and diaspora on what strengthens or diminishes national identity, state sovereignty, and national and regional security. Typically, two exams, one major research paper, and an oral presentation of student research. Preq: 3 credits in Political Science. Coreq: 3 credits in Political Science.

POL256 (Liberal Arts) African Politics 3 hrs. 3 crs. 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: 3 credits in Political Science or permission of the instructor.

POL257 (Liberal Arts) Asian Politics 3 hrs. 3 crs. Political development in selected Asian nations; emphasis on the independence movements, nationalism, political parties, and pressure groups. Preq: 3 credits in Political Science or permission of the instructor.

POL258 (Liberal Arts) \$ Middle East Politics 3 hrs. 3 crs. 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: 3 credits in Political Science or permission of the instructor.

POL259 (Liberal Arts) Modern Israel 3 hrs. 3 crs. Israeli society from pre-statehood to the present; emphasis on group politics, ideology, government, and foreign policy. Preq: 3 credits in Political Science or permission of the instructor.

POL267 (Liberal Arts) Classical Political Theory I: Plato to Machiavelli 3 hrs. 3 crs. The study of Greek, Roman, and Medieval political thought and their relationship to the societies from which they emerged. Preq: ENG 125. [Flexible Core: Individual and Society]

POL268 (Liberal Arts) Political Theory II: Machiavelli to Marx 3 hrs. 3 crs. 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. [Flexible Core: Individual and Society]

POL269 (Liberal Arts) American Political Thought 3 hrs. 3 crs. 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 or POL 267 or POL 268 or permission of the instructor.

POL271 (Not Liberal Arts) The Politics of Education 3 hrs. 3 crs. Educational decision-making in the political realm; the effect of community power structures, metropolitan organization, and state government on education policies. Preq: POL 103 or permission of the instructor. No prerequisites for Education students.

POL273 (Liberal Arts) Politics of Aging 3 hrs. 3 crs. 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. Preq: 3 credits in Political Science or permission of the instructor. No prerequisites for students with majors in the School of Health and Behavioral Sciences. Not offered on a regular basis. Availability to be determined by the department.

POL275 (Liberal Arts) Introduction to Law 4 hrs. 4 crs. 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: 3 credits in Political Science or permission of instructor.

POL280 (Liberal Arts) Transportation: Planning, Finance, and Policy 3 hrs. 3 crs. 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: 3 credits in Political Science or permission of the instructor.

POL285 (Liberal Arts) Urban Government in the United States 3 hrs. 3 crs. 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 crs. In-depth analysis of a single legal specialty in regard to substantive law and issues. Preq: 6 credits in Political Science.

POL306 (Liberal Arts) Selected Legal Topics 3 hrs. 3 crs. In-depth analysis of a single legal specialty in regard to substantive law and issues. Preq: 6 credits in Political Science or permission of the instructor.

POL309 (Liberal Arts) Aviation Law 3 hrs. 3 crs. 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, the legal, economic, and ethical considerations of business policy specific to aviation are addressed, including balancing individual rights against public safety and the environmental impact of aviation operations. Preq: POL 103.

POL310 (Liberal Arts) Methods of Legal Research 2 hrs. 2 crs. 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 or permission of the 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 crs. Analysis of selected contemporary issues of broad local, national and international significance. Preq: 6 credits in Political Science or permission of the instructor.

POL312 (Liberal Arts) Advanced Topics in Political Science 3 hrs. 3 crs. Analysis of selected contemporary issues of broad local, national and international significance. Coreq: 6 credits in Political Science or permission of the instructor.

POL315 (Liberal Arts) International Security 3 hrs. 3 crs. This course will examine the concept of international security by exploring its philosophical and historical origins, and how this issue has been studied by scholars. The course will explore the how international security has evolved from having a military and state security emphasis to including issues of human security and new forms of violence. Prospects for national and international security in the 21st century will also be discussed, touching upon relevant issues such as nuclear proliferation, human security, terrorism, cybersecurity, and climate change. Preq: 6 credits in Political Science or departmental permission.

POL320 (Liberal Arts) Risk Management for Public Policy 3 hrs. 3 crs. 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: 6 credits in Political Science or permission of the instructor.

POL321 (Liberal Arts) Social Research Methods II 4 hrs. 3 crs. Advanced analysis of qualitative and quantitative data, with an emphasis on statistical analysis of numerical social data; data collection; describing and graphing data; measures of association; regression analysis; and preparing research reports. Preq: ANTH 220 or SOC 220 or POL 222 or SCWK 350. Cross-listed with ANTH 321 and SOC 321. This course may be offered in a face-to-face or hybrid format. Not open to students with credit in ANTH 321 or SOC 321 or SCWK 470. 2 hours lecture, 2 hours laboratory.

POL322 (Liberal Arts) The Courts and Public Policy 3 hrs. 3 crs. 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: 6 credits in Political Science or permission of the instructor. Not offered on a regular basis. Availability to be determined by the department.

POL327 (Liberal Arts) Congress and the Presidency 3 hrs. 3 crs. 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 103 or permission of the instructor. Not offered on a regular basis. Availability to be determined by the department.

POL329 (Liberal Arts) Public Administration: Management Processes 3 hrs. 3 crs. 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 or permission of the instructor.

POL330 (Liberal Arts) Public Policy Making 3 hrs. 3 crs. 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: 6 credits in Political Science or permission of the 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 crs. Public opinion and political participation; political socialization, attitude formation and change, political ideology, and voting behavior; role of the mass media. Preq: 6 credits in Political Science or permission of the 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 crs. 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: 6 credits in Political Science or permission of the instructor. Offered at least once a year.

POL346 (Liberal Arts) American Foreign Policy 3 hrs. 3 crs. American strategy in world politics; formulation, implementation, and effects of United States decision-making in the international arena. Preq: POL 103 or permission of instructor.

POL351 (Liberal Arts) Qualitative Research Methods and Analysis 4 hrs. 3 crs. This course is designed to provide an overview of qualitative research methods, including direct observation, participant observation, and open-ended interviews - individual and collective. Students will gain understanding of the process, tools, rewards and challenges of observing and describing a range of non-quantifiable social, political and cultural phenomena. Students will also gain a basic understanding of qualitative data analysis techniques and approaches. Students will study and evaluate specific ethnographic studies and conduct their own ethnographic research project from the perspective of various social, political and behavioral science disciplines. Coreq: 9 Credits in ANTH, BLST, SOC OR POL. This course may be offered in a face-to-face or hybrid format. Course is cross-listed with ANTH 351 and BLST 351 and SOC 351. 2 hours lecture, 2 hours laboratory.

POL352 (Liberal Arts) Russian Politics 3 hrs. 3 crs. 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: 3 credits in Political Science or permission of the instructor. Not offered on a regular basis. Availability to be determined by the department.

POL364 (Liberal Arts) Protest Politics and the Novel 3 hrs. 3 crs. 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: 6 credits in Political Science or permission of the instructor. Not offered on a regular basis. Availability to be determined by the department.

POL366 (Liberal Arts) Marxism 3 hrs. 3 crs. 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: 6 credits in Political Science or permission of the instructor. Offered alternate Fall semesters.

POL367 (Liberal Arts) Contemporary Political Theory 3 hrs. 3 crs. 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 or permission of the instructor. Offered at least once a year.

POL373 (Liberal Arts) Politics of the Environment 3 hrs. 3 crs. 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 6 credits in Political Science or permission of the instructor. 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 crs. 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 or permission of the instructor. 1 hour lecture, 6 hours field work. Not offered on a regular basis. Availability to be determined by the department.

POL386 (Not Liberal Arts) Comparative Urban Government and Politics 3 hrs. 3 crs. Urban governmental institutions and reforms in selected industrial and developing areas and the relationship to changing environmental situations. Preq: 6 credits in Political Science or permission of the instructor. 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 crs. 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 (Liberal Arts) Aviation Internship in the Private Sector TBA hrs. 3 crs. 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. Not open to students with credit in BUS 392. Hours to be arranged.

POL393 (Liberal Arts) Seminar-Internship in New York City Government and Community Development 12 hrs. 4 crs. 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: 6 credits in Political Science or permission of the 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 crs. 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: 6 credits in Political Science or permission of the instructor. 2 hours lecture, 8-10 hours field placement. For students interested in city governance/community service.

POL395 (Not Liberal Arts) Seminar-Internship in Preventative Law for the Elderly 12 hrs. 4 crs. 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: 6 credits in Political Science or permission of the instructor. 2 hours lecture, 10 hours field placement. For students interested in law school, social work, or community service.

POL396 (Not Liberal Arts) Full-Time Internship in State Governance 1 hrs. 15 crs. 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: 6 credits in Political Science or permission of the instructor; 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 (Not Liberal Arts) Full-Time Internship in National Governance 1 hrs. 6 crs. 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: 6 credits in Political Science or permission of the 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.

POL402 (Liberal Arts) Aviation Policy Seminar 3 hrs. 3 crs. 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 in various managerial and functional roles, provide decision input that affects the performance of the business enterprise in competition with similar enterprises. Students will be required to analyze various case studies (incidents) and provide a rationale for the selected course of action. Additionally, students will prepare an annual report at the end of each simulation year, and at the completion of the third simulation year, will conduct a shareholders' meeting. Preq: ENG 125, POL 228 and BUS 335. This is the capstone course for the Aviation Management major.

POL412 (Liberal Arts) Seminar in New York City Government and Politics 3 hrs. 3 crs. 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. Not offered on a regular basis. Availability to be determined by the department. Not open to students with credit in POL 385. Preq: 1. ENG 125. 2. 9 credits in Political Science or department permission required.

POL425 (Liberal Arts) Seminar in Civil Liberties 3 hrs. 3 crs. 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: ENG 125 and 9 credits in Political Science or permission of the instructor. Hours arranged. Not offered on a regular basis. Availability to be determined by the department.

POL444 (Liberal Arts) Seminar in Comparative Foreign Policies 3 hrs. 3 crs. Scope, method, and theory of foreign policy-making; the foreign policies of major actors and blocs of actors in the international political system. Preq: ENG 125 and 9 credits in Political Science or permission of the instructor. Hours arranged. Not offered on a regular basis. Availability to be determined by the department.

POL453 (Liberal Arts) \$ Seminar in Global Change 3 hrs. 3 crs. Global capital development and its ramifications; the multinational corporation and the national state; the processes mobilization and democratization. Preq: ENG 125 and 9 credits in Political Science or permission of the instructor. Hours arranged. Not offered on a regular basis. Availability to be determined by the department.

POL480 (Liberal Arts) Seminar in Contemporary Urban Problems 3 hrs. 3 crs. 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: ENG 125 and 9 credits in Political Science or permission of the instructor. Not offered on a regular basis. Availability to be determined by the department.

POL490 (Liberal Arts) Directed Reading and Research 3 hrs. 3 crs. 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: 9 credits in Political Science or permission of the instructor.

POL491 (Liberal Arts) Directed Reading and Research 3 hrs. 3 crs. 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: 9 credits in Political Science or permission of the instructor.

POL492 (Liberal Arts) Directed Reading and Research 3 hrs. 3 crs. 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: 9 credits in Political Science or permission of the instructor.

POL493 (Liberal Arts) Directed Reading and Research 3 hrs. 3 crs. 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: 9 credits in Political Science or permission of the instructor.

POL494 (Liberal Arts) Directed Reading and Research 3 hrs. 3 crs. 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: 9 credits in Political Science or permission of the instructor.

Puerto Rican Studies

PRST241 (Liberal Arts) Puerto Ricans in New York 3 hrs. 3 crs. The life styles of Puerto Ricans as responses to the social, political, and economic conditions of New York. Preq: ENG 125. This is a Writing Intensive course. [Flexible Core: U.S. Experience in its Diversity]

PRST242 (Liberal Arts) Puerto Rican Society and Culture I 3 hrs. 3 crs. 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: ENG 125. This is a Writing Intensive course.

PRST243 (Liberal Arts) Puerto Rican Society and Culture II 3 hrs. 3 crs. 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: ENG 125. This is a Writing Intensive course.

Psychology

PSY102 (Liberal Arts) Introductory Psychology 3 hrs. 3 crs. 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. [Flexible Core: Scientific World]

PSY200 (Liberal Arts) Intermediate Seminar 3 hrs. 3 crs. Selected topics in Psychology. Preq: PSY 102. 1 hour lecture, 2 hours recitation. Specific areas will be chosen and will reflect student interest.

PSY203 (Liberal Arts) Foundations of Game-Based Learning 4 hrs. 3 crs. In this course, students will design an original game-based learning experience for social or behavioral impact. Students will learn about a chosen topic in psychology, applied behavioral analysis, the physiology of learning, the learning sciences, design-based research, game-based learning, and 21st century methods of dissemination. Students will learn how to create digital game prototypes using the C# programming language. This course may be offered in a face-to-face or asynchronous online format. Preq: PSY 102. 2 hours lecture, 2 hours laboratory.

PSY214 (Liberal Arts) Lifespan Development for Health Professions 3 hrs. 3 crs. 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. Not open to students with credit in PSY 215, PSY 216, or PSY 271. This course may not be substituted for PSY 215 in the Psychology major requirements. Students may be required to go on field trips. This course may be offered in a face-to-face or asynchronous online format.

PSY215 (Liberal Arts) Human Development I: Infancy/Childhood 3 hrs. 3 crs. 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. Not open to students with credit in PSY 214.

PSY216 (Liberal Arts) Human Development II: Adolescence/Maturity 3 hrs. 3 crs. 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 crs. 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 crs. 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. Psychological constructs and Political Psychology theory will be considered for their salience in helping to reach an understanding of terrorism. The course will explore the political and psychological effects of terrorism. Preq: ENG 125 and PSY 102 or 3 credits in Political Science. This course is cross-listed with POL 219. Not open to students with credit in POL 219.

PSY225 (Liberal Arts) Psychology of Learning Disabilities 3 hrs. 3 crs. Scope and origins of learning disorders; current views, theories, and research concerned with the etiology and remediation of specific learning disorders. This course may be offered in a face-to-face or hybrid format. Preq: PSY 102. Field trips may be required.

PSY226 (Liberal Arts) Statistical Methods in Psychology 4 hrs. 3 crs. Descriptive and inferential statistics in psychological research. Preq: PSY 102; MATH 111 or MATH 115 or MATH 120 or MATH 121. Not open to students with credit in PSY 205, PSY 206 or PSY 326. 2 hours lecture, 2 hours laboratory.

PSY230 (Liberal Arts) Introduction to Scientific Literature in Psychology 3 hrs. 3 crs. Introduces and familiarizes students with the structure and function of scientific papers in psychology. Students will read and evaluate empirical papers from professional journals in psychology, and will discuss these papers in written assignments and in groups during class. Topics include: differences between scientific and popular writing, primary and secondary sources, review and empirical papers, major sections of empirical papers, identifying gaps in literature, basics in research design, the critique and extension of prior work, summary and review of literature, proper use of APA style and scientific writing. Preq: ENG 125 and PSY 102. Not open to students with credit in PSY 330. This is a Writing Intensive course.

PSY232 (Liberal Arts) Social Psychology 3 hrs. 3 crs. 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: PSY 102. Not open to students with credit in PSY 332.

PSY234 (Liberal Arts) Personality 3 hrs. 3 crs. 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: PSY 102. This course may be offered in a face-to-face, hybrid or asynchronous online format. Not open to students with credit in PSY 334.

PSY236 (Liberal Arts) The Psychology of Women 3 hrs. 3 crs. 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: PSY 102.

PSY238 (Liberal Arts) Abnormal Psychology 3 hrs. 3 crs. 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: PSY 102. Not open to students with credit in PSY 338.

PSY250 (Not Liberal Arts) Practicum in Interviewing 5 hrs. 4 crs. 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 crs. 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 crs. Theories of leadership; effect of leadership on individual and group motivation; special emphasis on the realities of power in management. Preq: PSY 102. Not open to students with credit in PSY 351. Not offered on a regular basis. Availability to be determined by the department.

PSY253 (Liberal Arts) Industrial/Organizational Psychology 3 hrs. 3 crs. 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. Course sections may be offered as asynchronous online course.

PSY254 (Liberal Arts) Conflict Resolution and Management 3 hrs. 3 crs. 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 Consumer Behavior 3 hrs. 3 crs. This course provides an introduction to the field of Consumer Behavior from a psychological perspective, examining consumer preferences and decision-making in response to persuasive messages. Psychological theory and research (e.g. attention, emotion, neuroscience, cognition) will be applied to consumer behavior, with an emphasis on methodologies typically used in psychological consumer research (e.g. recall/recognition, physiological measures, surveys). The goals of this course are to provide the insights needed to help individual consumers make better decisions, and to help marketers to develop more effective campaigns. Preq: PSY 102.

PSY265 (Liberal Arts) Introduction to Communication Disorders 4 hrs. 4 crs. 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 crs. 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 crs. 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 crs. 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. This course may be offered in a face-to-face or asynchronous online format. Preq: PSY 102.

PSY289 (Liberal Arts) Psychology of Addiction 3 hrs. 3 crs. 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 (Not Liberal Arts) Field Work 1 hrs. 1 crs. 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.

PSY291 (Not Liberal Arts) Field Work 1 hrs. 1 crs. 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 (Not Liberal Arts) Field Work 1 hrs. 1 crs. 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 (Not Liberal Arts) Field Work 1 hrs. 1 crs. 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 (Not Liberal Arts) Field Work 1 hrs. 1 crs. 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 (Not Liberal Arts) Field Work 1 hrs. 1 crs. 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 crs. 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 crs. 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 crs. 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 crs. 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 crs. 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) \$ Sensation and Perception 4 hrs. 3 crs. Consideration of basic sensory and perceptual processes. Extensive experience with computerized and hands-on laboratory experiments. Students will conduct individual research projects. This course may be offered in a face-to-face or asynchronous online format. Preq: 6 credits in Psychology; ENG 125. Not open to students with credit in PSY 212 or PSY 213. 2 hours lecture, 2 hours laboratory. Field trips may be required.

PSY319 (Liberal Arts) \$ Human Cognitive Laboratory 4 hrs. 3 crs. In-depth examination of human problem solving, concept formation, creativity, intelligence, perception, attention, memory and mnemonics, language, knowledge representation, and artificial intelligence. This course may be offered as an online course. Preq: 6 credits in Psychology; ENG 125. 2 hours lecture, 2 hours laboratory.

PSY321 (Liberal Arts) \$ Psychology of Learning Laboratory 4 hrs. 3 crs. 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. Not open to students with credit in PSY 221. Students will conduct weekly supervised laboratory exercises. 2 lecture hours, 2 laboratory hours.

PSY327 (Liberal Arts) Advanced Statistical Methods 4 hrs. 3 crs. 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 crs. 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 ways to take advantage of users' strengths and to compensate for their limitations in memory, attention, vision, manual control, etc. Emphasis will be on application of human factors to solve real world problems with a special emphasis on aviation issues. Preq: ENG 125, PSY 102 and PSY 326 or ECON 220.

PSY330 (Liberal Arts) Foundations of Research Methods in Psychology 3 hrs. 3 crs. 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: ENG 125, PSY 102, PSY 226. This course may be offered in a face-to-face or asynchronous online format. This is a Writing Intensive course.

PSY333 (Liberal Arts) Black Psychology 3 hrs. 3 crs. 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.

PSY335 (Liberal Arts) Exceptional Child 3 hrs. 3 crs. Children requiring special consideration as a result of exceptional characteristics; early intervention, preschool special education and categories of special education will be discussed, including but not limited to, intellectual disabilities, learning disabilities, emotional and behavioral disorders of childhood, autism, communication disorders, brain damage, other health impairments, multiple disabilities. Preq: PSY 215 or EDUC 280; ENG 125. Not offered on a regular basis. Availability to be determined by the department.

PSY337 (Liberal Arts) Child Abuse and Neglect 3 hrs. 3 crs. 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.

PSY340 (Liberal Arts) Clinical Health Psychology 3 hrs. 3 crs. 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 (Liberal Arts) Practicum in Group Dynamics 5 hrs. 4 crs. 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.

PSY345 (Liberal Arts) Psychology of Food 3 hrs. 3 crs. Food and eating are central to what we are as human beings and how we relate to each other. Global change in diet and eating habits, a growing obesity problem, and the questionable sustainability of current food patterns point out their importance. This course will investigate food and eating from a psychological perspective. Preq: ENG 126 or ENG 200; 6 credits in psychology.

PSY352 (Liberal Arts) Psychological Assessment 3 hrs. 3 crs. 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 crs. Cognitive, behavioral, humanistic, psychopharmacological, and psychodynamic approaches to human behavior change. Preq: ENG 125; PSY 238 or PSY 338.

PSY362 (Liberal Arts) Physiological Psychology 3 hrs. 3 crs. 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 crs. 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 3 hrs. 3 crs. 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. Field trips may be required. Preq: 6 credits in Psychology; ENG 125.

PSY383 (Not Liberal Arts) Behavior Modification 3 hrs. 3 crs. 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 (Liberal Arts) Practicum in Behavior Modification 7 hrs. 4 crs. 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 crs. 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 crs. 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 and environmental risk factors for mental health problems and prevention of mental disorders and social problems through outreach, community empowerment and social change. Applications to work in community-based settings with at risk populations will be discussed. Preq: ENG 125 and 6 credits in Psychology.

PSY401 (Liberal Arts) History of Psychology 3 hrs. 3 crs. 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.

PSY430 (Liberal Arts) Experimental Methods 4 hrs. 3 crs. 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, obtain IRB approval if needed, collect data and analyze results, prepare a poster presentation as well as a professional level research report in accordance with APA style, and present the findings

to the class. Preq: PSY 326 and PSY 330. Not open to students with credit in PSY 304, PSY 305, and PSY 306. 2 hours lecture, 2 hours laboratory.

PSY454 (Liberal Arts) Seminar in Organizational Psychology 3 hrs. 3 crs. 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 crs. Selected advanced topics in psychology. Preq: 9 credits in Psychology.

PSY481 (Liberal Arts) \$ Advanced Seminar in Psychology 3 hrs. 3 crs. Selected advanced topics in psychology. Preq: 9 credits in Psychology.

PSY482 (Liberal Arts) Advanced Seminar in Psychology 3 hrs. 3 crs. Selected advanced topics in psychology. Preq: 9 credits in Psychology.

PSY490 (Liberal Arts) Independent Study and Experimental Research 3 hrs. 3 crs. Investigation of a psychology problem, determined by the student in consultation with a member of the Psychology faculty. Preq: PSY 226 or PSY 326; 9 additional credits in Psychology; and Department permission. Hours arranged. Field trips may be required.

PSY491 (Liberal Arts) Independent Study and Experimental Research 3 hrs. 3 crs. Investigation of a psychology problem, determined by the student in consultation with a member of the Psychology faculty. Preq: PSY 226 or PSY 326; 9 additional credits in Psychology; and Department permission. Hours arranged. Field trips may be required.

PSY492 (Liberal Arts) Independent Study and Experimental Research 3 hrs. 3 crs. Investigation of a psychology problem, determined by the student in consultation with a member of the Psychology faculty. Preq: PSY 226 or PSY 326; 9 additional credits in Psychology; and Department permission. Hours arranged. Field trips may be required.

PSY493 (Liberal Arts) Independent Study and Experimental Research 3 hrs. 3 crs. Investigation of a psychology problem, determined by the student in consultation with a member of the Psychology faculty. Preq: PSY 226 or PSY 326; 9 additional credits in Psychology; and Department permission. Hours arranged. Field trips may be required.

PSY494 (Liberal Arts) Independent Study and Experimental Research 3 hrs. 3 crs. Investigation of a psychology problem, determined by the student in consultation with a member of the Psychology faculty. Preq: PSY 226 or PSY 326; 9 additional credits in Psychology; and Department permission. Hours arranged. Field trips may be required.

PSY495 (Liberal Arts) Independent Study and Experimental Research 3 hrs. 3 crs. Investigation of a psychology problem, determined by the student in consultation with a member of the Psychology faculty. Preq: PSY 226 or PSY 326; 9 additional credits in Psychology; and Department permission. Hours arranged. Field trips may be required.

Russian

RUS101 (Liberal Arts) Elementary Russian I 4 hrs. 3 crs. Basic principles of a beginner's course; designed to give the foundations of language. Preq: Placement by department. Offered when the demand exists. 2 hrs. recitation, 2 hrs. laboratory.

RUS102 (Liberal Arts) Elementary Russian II 4 hrs. 3 crs. Continuation of the beginner's course; more complex grammatical structures, integrated readings and further practice in conversation. Preq: RUS 101 or placement by department. Offered when the demand exists. 2 hrs. recitation, 2 hrs. laboratory.

Science Education

SCED570 (Not Liberal Arts) Advanced Methods in High School Science Instruction 7 hrs. 4 crs. 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. 5 hours lecture, 5 hours laboratory. The subject area of concentration will be in one of the following: biology; chemistry; earth science; or physics.

SCED571 (Not Liberal Arts) Field Activities in Science Education 6 hrs. 2 crs. 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 (Not Liberal Arts) Survey of Physical Science Topics for Elementary Teachers 4 hrs. 3 crs. 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 (Not Liberal Arts) Practicum in Physical Science for Elementary Teachers 4 hrs. 3 crs. 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 (Not Liberal Arts) Introduction to Social Work 3 hrs. 3 crs. Social Work and its values viewed from historic and contemporary perspectives; emphasis on settings where social work is practiced; opportunity for career discovery and orientation.

SCWK203 (Not Liberal Arts) Social Welfare Programs and Policies 3 hrs. 3 crs. 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, ENG 125. Coreq: ENG 125.

SCWK293 (Not Liberal Arts) Social Work Practicum 8 hrs. 3 crs. 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. Coreq: PSY 215, SCWK 203, ENG 125. 2 hours lecture, 6 hours field work. Field placement is for six daytime hours per week.

SCWK300 (Liberal Arts, NOT Liberal Arts for Accounting Major) Generalist Social Work Practice I and Skills Laboratory 4 hrs. 3 crs. 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. Coreq: ANTH 101; PSY 214 or PSY 216. 2 hours lecture, 2 hours laboratory. This course may be offered as an H-WEB course.

SCWK330 (Not Liberal Arts) Social Welfare Problems and Issues 3 hrs. 3 crs. 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 (Not Liberal Arts) Social Research I 4 hrs. 3 crs. 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 293. Coreq: SCWK 300, SCWK 360, SCWK 370, SCWK 400. This course may be offered as a face-to-face course or as a hybrid online course. 2 hours recitation, 2 hours laboratory.

SCWK360 (Not Liberal Arts) Human Behavior and the Social Environment 3 hrs. 3 crs. 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. Coreq: Two Group II courses and SCWK 350.

SCWK370 (Not Liberal Arts) Generalist Social Work Practice II 3 hrs. 3 crs. 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. Coreq: SCWK 350, SCWK 360, WRIT 303.

SCWK400 (Not Liberal Arts) \$ Generalist Social Work Practice III 3 hrs. 3 crs. This course provides students with concepts and skills for working with communities and formal organizations emphasizing transactions among individuals, families, neighborhoods, formal organizations, and larger systems. This course introduces students to the epistemological system that includes theoretical foundation, deontological framework, and empirical knowledge in relevance to community wellness. Coreq: SCWK 350, SCWK 360, SCWK 370. This is a Writing Intensive (WI) course.

SCWK410 (Not Liberal Arts) \$ Field Placement and Seminar I 16 hrs. 6 crs. 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. Coreq: SCWK 400. 2 hours lecture, 14 hours field work. Permission required for repeating the course. Placements are from 9:00 AM to 5:00 PM on two weekdays per week for a minimum of 200 hours for the semester.

SCWK470 (Not Liberal Arts) Social Research Methods II 3 hrs. 3 crs. Application of the scientific method, the logic of experimentation, and rules of evidence to social data, with particular attention to analytic approach to building knowledge and skills, examination of

quantitative and qualitative methods of social work research including: problem formulation, research designs, data collection, data processing, statistical analysis, computer skills required for scholarly work. Preq: Admission into Social Work Field Education Program. SCWK 350. Coreq: SCWK 400, SCWK 410, SCWK 480.

SCWK480 (Not Liberal Arts) Social Welfare Policy 3 hrs. 3 crs. This course is a culmination of the entire BSSW Program curriculum as expressed in the ability to integrate professional learning in a meaningful, cohesive, and competent fashion. A review of the curriculum trajectory is accompanied by learning various methods of the social welfare policy analysis and advocacy toward social justice. Preq: SCWK 410. Coreq: SCWK 470. Not open to students with credit in SCWK 401. The Hybrid course will be conducted using the Blackboard course management system. Students must have an email account and access to the internet. Students must register for a CUNY portal account, if they do not already have one. There will be a minimum of twelve (12) in-class hours held on pre-selected dates scheduled throughout the semester. All other class interaction will take place on-line using Blackboard. The Blackboard features that will be used are: Announcements, Assignments, Course Calendar, Course Documents, Course Information, Discussion Board, Digital Drop Box, Email, External Links, Grade Book, 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 (Not Liberal Arts) \$ Field Placement and Seminar II 16 hrs. 6 crs. 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. Coreq: 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 AM to 5:00 PM on two weekdays per week for a minimum of 200 hours for the semester.

SCWK501 (Not Liberal Arts) Social Welfare Policy, Advocacy and Services 3 hrs. 3 crs. As a generalist master-level policy course - Social Welfare Policy, Advocacy, and Services - is the 1st class in a two course policy sequence on social policy structures, practice and service delivery which focuses on understanding social welfare, the policy model, and policy advocacy in urban, marginalized populations. Preq: Official acceptance to the MSW program.

SCWK503 (Not Liberal Arts) Social Work Practice I - Individuals, Families & Groups 3 hrs. 3 crs. Social Work 503 provides the foundation skills for social work practice with individuals, families and groups. It emphasizes analytic and practice skills as well as values and ethics necessary for generalist direct practice. Preq: Official acceptance to the MSW program.

SCWK505 (Not Liberal Arts) Human Behavior and the Social Environment I 3 hrs. 3 crs. First course in a 2-semester sequence focusing on micro-level human development over the life span, conceptual frameworks and theoretical models of human behavior, and major theories used in social work practice with individuals, groups, and families. Preq: Admission to the MSW program and official acceptance into the program.

SCWK507 (Not Liberal Arts) \$ Generalist Field Placement & Seminar I (2 hours lecture; 14 hours field work) 16 hrs. 4 crs. Social Work 507 is the first of two generalist seminar field courses taken in the first year of the MSW program. Course includes supervised field experience, integration of field and classroom learning in a weekly on-campus seminar, on-site visits by social work faculty, and preparation for the social work licensing exam. Preq: Official acceptance to the MSW program. Placements are two (2) weekdays (14 hours per week) for a minimum of 200 hours this semester.

SCWK511 (Not Liberal Arts) Social Work II - Organizations and Communities 3 hrs. 3 crs. This course is dedicated to preparing students for practice with the wide spectrum of governmental and non-governmental organizations toward community empowerment and wellness. Political aspects of community health are analyzed through the framework of social conflict theories and dialectic social work methods. Participant/action research, planning, and action are examined and exercised through class projects. Preq: Department permission required.

SCWK513 (Not Liberal Arts) Methods of Social Work Research 4 hrs. 3 crs. Introduction to scientific inquiry, analytic approach to building knowledge and skills, examination of quantitative and qualitative methods of social work research including: problem formulation, research designs, data collection, data processing, statistical analysis, computer skills required for scholarly work. Preq: Department permission required. 2 hours lecture; 2 hours laboratory.

SCWK517 (Not Liberal Arts) Human Behavior and Social Environment II 3 hrs. 3 crs. Second course in a 2-semester sequence focusing on mezzo and macro-level understanding human development over the life span, conceptual frameworks and theoretical models of human behavior, and major theories used in social work practice with individuals groups and families. Preq: SCWK 505 and departmental permission required.

SCWK519 (Not Liberal Arts) \$ Generalist Field Placement & Seminar II 16 hrs. 4 crs. Social Work 519 is the second of two generalist seminar field courses taken in the first year of the MSW program. Course includes supervised field experience, integration of field and classroom learning in a weekly on-campus seminar and on-site visits by social work faculty, preparation for the social work licensing exam. Preq: SCWK 507 and department permission required. 2 hours lecture; 14 hours fieldwork. Placements are 2 weekdays for a minimum of 200 hours per semester.

SCWK601 (Not Liberal Arts) Urban Health Disparities and Global Health 3 hrs. 3 crs. Urban Health Disparities and Global Health is a course in the advanced year sequence which examines culturally appropriate policy, priorities, action plans, and agendas to understand and eliminate health disparities particularly impacting urban populations. The course articulates social work national and international ethics and values as they relate to health disparities, global health, health status, and access. Preq: SCWK 501 and department permission required.

SCWK603 (Not Liberal Arts) Research Evaluation 3 hrs. 3 crs. This course enables students to apply the methods of social work research to the evaluation of social work and health programs and understand the role it plays in program management and decision-making. Preq: SCWK 513 and department permission required. Coreq: SCWK 609.

SCWK605 (Not Liberal Arts) Understanding Mental Disorders 3 hrs. 3 crs. This course gives a broad overview of mental dysfunction as a social problem and medical condition. The current DSM-5 diagnostic criteria and various therapeutic approaches are examined. Mental dysfunction is also presented as a social construct that varies greatly according to the time in human history, culture, technology, and socio-political imperative. Preq: SCWK 503 and departmental permission required.

SCWK607 (Not Liberal Arts) Social Work Practice in Health Care Settings 3 hrs. 3 crs. Social Work 607 provides knowledge and skills necessary for social work practice in health care settings. Topics include evidence-based practice models and methods of intervention such as health promotion, disease prevention, psycho-social assessment, counseling, case management, interdisciplinary collaboration, advocacy and discharge planning. Preq: SCWK 511 and department permission required.

SCWK609 (Not Liberal Arts) Advanced Field Placement & Seminar III 24 hrs. 6 crs. Social Work 609 is the first of two-advanced seminar field courses. Course includes supervised field experience, integration of field and classroom learning in a weekly on-campus seminar and on-site visits by social work faculty, preparation for the social work licensing exam. Preq: SCWK 519 or documentation of 400 hours completed in BSW studies; and departmental permission required. 3 hours lecture; 21 hours field work. Placements are three (3) weekdays for a minimum of 250 hours for this semester.

SCWK613 (Not Liberal Arts) Social Policy Advocacy in Health Care 3 hrs. 3 crs. Building on the generalist policy course - SCWK 613 is an advanced class in a two-course policy sequence on social policy structures, practice and service delivery, with emphasis on health care in urban populations. The course critically analyzes current policies and reform, which intersect part practice trends, social determinants, and the integrative macro-level capstone experience. Preq: SCWK 603 and SCWK 609 and department permission required. Coreq: SCWK 621.

SCWK615 (Not Liberal Arts) Social and Behavioral Determinants of Health 3 hrs. 3 crs. An introduction to the relationship between human behavior and major health issues, social and behavioral theoretical approaches and their use in public health interventions, health care settings and health promotion programs. Preq: SCWK 517 and department permission required.

SCWK618 (Not Liberal Arts) Clinical Social Work Practice in Relation to Death, Grief and Bereavement 3 hrs. 3 crs. This course provides a theoretical base for understanding the psychosocial aspects of loss, death, grief, and bereavement across the life cycle. Emphasis includes skilled interventions with bereaved individuals, families and groups taking to consideration the cultural, spiritual, and religious views that impact on terminal illness, traumatic death, and grief. Preq: Department permission required.

SCWK619 (Not Liberal Arts) Contemporary Issues: Violence as Structural Oppression 3 hrs. 3 crs. SCWK 619 will acquaint student scholars with knowledge and skills about contemporary issues sustained through violence and structural oppression. This course anchors their experiences in cultural competent awareness and social justice. Student scholars are provided a safe space to examine a variety of social work literature and themes central to services delivery impacting marginalized and vulnerable populations. Preq: Department permission required.

SCWK620 (Not Liberal Arts) Beyond the Medical Model: Wellness Paradigms for the Social Work Profession 3 hrs. 3 crs. Complementary and Alternative Medicine (CAM) has become acceptable, accessible and popular. There is a growing evidence of effectiveness of CAM in diagnosing and treating a wide variety of medical conditions. This course will familiarize students with various CAM approaches to understanding human physiology, health, disease, and treatment for social work practice and self-care. Preq: Department permission required.

SCWK621 (Not Liberal Arts) \$ Advanced Field Placement & Seminar IV 24 hrs. 6 crs. Social Work 621 is the second of two-advanced seminar field courses. Course includes supervised field experience, integration of field and classroom learning in a weekly on-campus seminar and onsite visits by social work faculty, preparation for the social work licensing exam. Preq: SCWK 609 and department permission required. 3 hours lecture; 21 hours field work. Placements are 3 weekdays for a minimum of 250 hours this semester.

Student Development

SD101 (Not Liberal Arts) Developing Individual Life Styles 1 hrs. 1 crs. 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 (Liberal Arts) Practicum in Learning Techniques and Problem-Solving 3 hrs. 1 crs. Supervised experience in the application of various learning strategies and techniques. Preq: Students must obtain permission from their department chair in order to register. Not credited toward fulfillment of Teacher Education Program Requirements or N.Y. State Education Certification Requirements. 3 hours laboratory. Pass/No Credit. Offered by every department.

SD103 (Not Liberal Arts) Practicum in Learning Techniques and Problem-Solving 3 hrs. 1 crs. Supervised experience in the application of various learning strategies and techniques. Preq: Students must obtain permission from their department chair in order to register. Not credited toward fulfillment of Teacher Education Program Requirements or N.Y. State Education Certification Requirements. 3 hours laboratory. Pass/No Credit. Offered by every department.

SD104 (Not Liberal Arts) Practicum in Learning Techniques and Problem-Solving 3 hrs. 1 crs. Supervised experience in the application of various learning strategies and techniques. Preq: Students must obtain permission from their department chair in order to register. Not credited toward fulfillment of Teacher Education Program Requirements or N.Y. State Education Certification Requirements. 3 hours laboratory. Pass/No Credit. Offered by every department.

SD105 (Not Liberal Arts) Practicum in Learning Techniques and Problem-Solving 3 hrs. 1 crs. Supervised experience in the application of various learning strategies and techniques. Preq: Students must obtain permission from their department chair in order to register. Not credited toward fulfillment of Teacher Education Program Requirements or N.Y. State Education Certification Requirements. 3 hours laboratory. Pass/No Credit. Offered by every department.

SD110 (Liberal Arts) Developing Success in College 2 hrs. 2 crs. 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 (Liberal Arts) Individual Career Development 2 hrs. 2 crs. 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 (Liberal Arts) Psychological, Social and Academic Development 2 hrs. 2 crs. 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. Not open to students with credit in SD 101 or SD 110. Open only to students in the SEEK Program.

SKCS103 (Liberal Arts) Developing Self Awareness for Academic Success 2 hrs. 2 crs. This course incorporates an interdisciplinary perspective which will provide students the opportunity to develop deeper insight into personal and social issues

that impact their academic success. The topics covered include personal development, interpersonal relationships, and career choices as they pertain to students' roles and responsibilities. Preq: SKCS 102 or AD 102. Open only to students in the SEEK Program.

SKCS110 (Liberal Arts) Developing Coping Strategies for Academic Success 2 hrs. 1 crs. 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 crs. This course is an 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 and the logic of sociological inquiry. The broad areas covered are the study of sociology, the individual and society, structures of power, social institutions and social change in the modern world. Preq: Passing grade on writing and reading tests. This course may be offered as an online course. [Flexible Core: Individual and Society]

SOC201 (Liberal Arts) Sociological Analysis 3 hrs. 3 crs. 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. This course can be offered as a face-to-face course or as a hybrid course. This is a Writing Intensive course.

SOC202 (Liberal Arts) Major Ideas and Issues in Education 3 hrs. 3 crs. 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. Not open to students with credit in PHIL 202. Required for all teacher education students. This course is cross-listed with PHIL 202. This is a Writing Intensive course.

SOC220 (Liberal Arts) Social Research Methods I 4 hrs. 3 crs. Introduction to the logic of inquiry; qualitative and quantitative methods of data collection and analysis; introduction to statistical analysis; writing and interpreting research reports; using computers for statistical analysis. Experimental, survey, and ethnographic methods will be emphasized. Preq: ANTH 101 or SOC 101 or POL 101 or POL 103. Cross-listed with ANTH 220 and POL 222. This course may be offered in a face-to-face or hybrid format. Not open to students with credit in ANTH 220 or POL 222 or SCWK 350. 2 hours lecture; 2 hours laboratory.

SOC226 (Liberal Arts) Survey Research I: Planning and Design of Research 6 hrs. 4 crs. 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. Not open to students with credit in SOC 326. 2 hours lecture, 4 hours laboratory. Field work required. Not offered on a regular basis. Availability to be determined by the department.

SOC227 (Liberal Arts) Survey Research II: Data Collection, Processing and Analysis 6 hrs. 4 crs. 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 crs. 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.

SOC235 (Liberal Arts) Race and Ethnicity 3 hrs. 3 crs. Survey of the major racial and ethnic groups in the United States; emphasis on the social construction of race, classifying of individuals into racial and ethnic groups, leading theories and concepts concerning the sources of racism, prejudice and discrimination, and the changing place of various groups in the stratification structure. Preq: SOC 101. [Flexible Core: U.S. Experience in its Diversity]

SOC236 (Liberal Arts) Sociology of Aging 3 hrs. 3 crs. A study of the trends in the roles and status relationships of the aged, who as a group within the population are increasing rapidly. In addition to biological and psychological changes, the emphasis of the course lies on the social factors that play a role in the aging process: how the experience of older age is shaped by our gender, race, social class, historical context, public policies, and our own resources in earlier life and how the growing group of elderly are shaping our society. Preq: ENG 125. This course may be offered in a face-to-face or asynchronous online format.

SOC238 (Liberal Arts) Industrial Sociology 3 hrs. 3 crs. 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 crs. 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 crs. An analysis of the origins and uses of time and of its relationship to other institutions. Preq: SOC 101. Not open to students with credit in SOC 343. Not offered on a regular basis. Availability to be determined by the department.

SOC245 (Liberal Arts) Medical Sociology 3 hrs. 3 crs. 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 crs. 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 crs. 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 crs. Various forms of social deviance and the processes established for their control; particular emphasis on criminology. Preq: SOC 101.

Not open to students with credit in SOC 254, formerly Criminology. Not offered on a regular basis. Availability to be determined by the department.

SOC271 (Liberal Arts) Sociology of Education 3 hrs. 3 crs. 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.

SOC288 (Liberal Arts) Understanding Youth in the Urban Context 3 hrs. 3 crs. In this course, students will delve into original texts to examine critical perspectives on urban youth, youthhood, and constructions of youth identity(ies) both in the U.S. and cross-culturally. It begins with an understanding of young people: how they are seen, where they are seen, when they are seen. The spaces where 'youth' and 'youthhood' are constructed in relation to culture, social class, ethnicity, language, race, gender, sexual orientation are examined and the implications for policy and practice discussed. Preq: ENG 125. Contact the Teacher Education Department when declaring your intent to take this course. The course is cross-listed with YD 289 and ANTH 289. Not open to students with credit in YD 289 or ANTH 289. [Flexible Core: Individual and Society]

SOC289 (Liberal Arts) Urban Sociology 3 hrs. 3 crs. 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. [Flexible Core: U.S. Experience in its Diversity]

SOC290 (Liberal Arts) Field Work and Research 0 hrs. 3 crs. Not more than 6 credits from the Field Work and Research series (SOC 290, SOC 291, SOC 292, SOC 390, SOC 391, SOC 392) credited toward Sociology major requirements. 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 (Liberal Arts) Field Work and Research 0 hrs. 2 crs. 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 (Liberal Arts) Field Work and Research 0 hrs. 1 crs. 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 crs. 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. This is a Writing Intensive course.

SOC314 (Liberal Arts) Social Structure and Personality 3 hrs. 3 crs. 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 4 hrs. 3 crs. Advanced analysis of qualitative and quantitative data, with an emphasis on statistical analysis of numerical social data; data collection; describing and graphing data; measures of association; regression analysis; and preparing research reports. Preq: ANTH 220 or SOC 220 or POL 222 or SCWK 350. Cross-listed with ANTH 321 and POL 321. This course may be offered in a face-to-face or hybrid format. Not open to students with credit in ANTH 321 or POL 321 or SCWK 470. 2 hours lecture; 2 hours laboratory.

SOC325 (Liberal Arts) Field Research Practicum 6 hrs. 4 crs. 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.

SOC333 (Liberal Arts) Social Stratification 3 hrs. 3 crs. 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 crs. 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 crs. 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. This course may be offered in a face-to-face, hybrid or asynchronous online format.

SOC341 (Liberal Arts) Political Sociology 3 hrs. 3 crs. 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 crs. 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 crs. 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 crs. 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 crs. 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 crs. 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.

SOC351 (Liberal Arts) Qualitative Research Methods and Analysis 4 hrs. 3 crs. This course is designed to provide an overview of qualitative research methods, including direct observation, participant observation, and open-ended interviews - individual and collective. Students will gain understanding of the process, tools, rewards and challenges of observing and describing a range of non-quantifiable social, political and cultural phenomena. Students will also gain a basic understanding of qualitative data analysis techniques and approaches. Students will study and evaluate specific ethnographic studies and conduct their own ethnographic research project from the perspective of various social, political and behavioral science disciplines. Coreq: 9 Credits in ANTH, BLST, SOC OR POL. This course may be offered in a face-to-face or hybrid format. Course is cross-listed with ANTH 351 and BLST 351 and POL 351. 2 hours lecture, 2 hours laboratory.

SOC354 (Liberal Arts) Criminal Justice Administration 3 hrs. 3 crs. 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 crs. Structural and cultural change in community and society; the rate, degree, mechanisms, and planning of change as well as major theories of social change. Social movements, historically, have been a major catalyst for change. Changes caused by global capitalism and the market economy in the late 20th and early 21st centuries will also be examined, as well as reactions to these changes. Preq: SOC 101 and completion of Behavioral Sciences distribution requirements. This course can be offered as a face-to-face course or as a fully online asynchronous course.

SOC365 (Liberal Arts) Collective Behavior 3 hrs. 3 crs. 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 crs. 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 crs. 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 (Liberal Arts) Field Work and Research TBA hrs. 3 crs. Supervised experience in the field or independent research under the guidance of an instructor in Sociology. Preq: Junior status, 9 credits

Spanish

in Sociology including SOC 101 and permission of instructor. Not more than 6 credits from the Field Work and Research series (SOC 290, SOC 291, SOC 292, SOC 390, SOC 391, SOC 392) credited toward Sociology major requirements. Hours arranged. Not offered on a regular basis. Availability to be determined by the department.

SOC391 (Liberal Arts) Field Work and Research TBA hrs. 2 crs. 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. Not more than 6 credits from the Field Work and Research series (SOC 290, SOC 291, SOC 292, SOC 390, SOC 391, SOC 392) credited toward Sociology major requirements. Hours arranged. Not offered on a regular basis. Availability to be determined by the department.

SOC392 (Liberal Arts) Field Work and Research TBA hrs. 1 crs. 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. Not more than 6 credits from the Field Work and Research series (SOC 290, SOC 291, SOC 292, SOC 390, SOC 391, SOC 392) credited toward Sociology major requirements. Hours arranged. Not offered on a regular basis. Availability to be determined by the department.

SOC401 (Liberal Arts) Seminar: Advanced Topics in Sociology TBA hrs. 3 crs. 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 TBA hrs. 3 crs. 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 TBA hrs. 3 crs. 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 TBA hrs. 3 crs. 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 crs. 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 TBA hrs. 3 crs. 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.

SPAN101 (Liberal Arts) Elementary Spanish I 4 hrs. 3 crs. 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. 2 hrs. recitation, 2 hrs. laboratory. Not open to students with credit in SPAN 113 or 110. This course may be offered as a face-to-face course or as a hybrid course.

SPAN102 (Liberal Arts) Elementary Spanish II 4 hrs. 3 crs. Continuation of the beginner's course; more complex grammatical structures; integrated reading and further practice in conversation. Preq: SPAN 101 or SPAN 110 or placement by department. 2 hrs. recitation, 2 hrs. laboratory. Not open to students with credit in SPAN 114. This course may be offered as a face-to-face course or as a hybrid course.

SPAN103 (Liberal Arts) Essential Spanish for the Bilingual Student I 3 hrs. 3 crs. 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. Not open to students with credit in SPAN 101 or SPAN 102.

SPAN104 (Liberal Arts) Essential Spanish for the Bilingual Student II 3 hrs. 3 crs. 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 crs. 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 crs. 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 crs. 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 crs. Proficiency-oriented intensive beginner's 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. 2 hours lecture, 2 hours laboratory. This course may be used to fulfill the College Option Requirement in Foreign Languages only for students in Health Professions programs. Students who switch from Health Professions to another major will have to take SPAN 102 or a higher course in Spanish. Not open to students with credits in SPAN 101 or SPAN 113.

SPAN117 (Liberal Arts) Intermediate Spanish for Health Professions 4 hrs. 3 crs. 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. 2 hours recitation, 2 hours laboratory.

SPAN180 (Not Liberal Arts) Intermediate Spanish in the Disciplines I 1 hrs. 1 crs. 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. Not open to students with Spanish credit above the 100 level.

SPAN181 (Liberal Arts) Intermediate Spanish in the Disciplines II 1 hrs. 1 crs. 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. Not open to students with Spanish credit above the 100 level.

SPAN182 (Liberal Arts) Intermediate Spanish in the Disciplines III 1 hrs. 1 crs. 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. Not open to students with Spanish credit above the 100 level.

SPAN200 (Liberal Arts) Introduction to Literary Theory and Analysis 3 hrs. 3 crs. 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 crs. 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 crs. Hispanic-American authors after Modernismo. Preq: SPAN 200.

SPAN203 (Liberal Arts) Hispanic-American Short Story 3 hrs. 3 crs. Critical analysis of the modern short story in Hispanic America. Preq: SPAN 200.

SPAN208 (Liberal Arts) Advanced Grammar 3 hrs. 3 crs. A systematic review of grammar and a study of syntactical peculiarities of modern Spanish. Preq: SPAN 106 or SPAN 107 or placement by the Department.

SPAN209 (Liberal Arts) Composition and Style 3 hrs. 3 crs. Composition based on the stylistic analysis of readings of representative modern authors. Preq: SPAN 106 or SPAN 107 or placement by the Department.

SPAN210 (Liberal Arts) Spanish Linguistics 3 hrs. 3 crs. 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 or SPAN 107 placement by the Department. Course will be conducted in Spanish.

SPAN213 (Liberal Arts) Latino Cultures in the U.S. 3 hrs. 3 crs. 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 crs. 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 crs. Survey of major works of Peninsular Spanish Literature from 1700 to the present. Preq: SPAN 200.

SPAN230 (Not Liberal Arts) Spanish Literature for Children and Adolescents 3 hrs. 3 crs. 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 crs. 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 or SPAN 107 or placement by the Department, and ENG 125. Not offered on a regular basis. Availability to be determined by the department.

SPAN241 (Liberal Arts) Translation II 3 hrs. 3 crs. This course focuses on the development of skills in translation from Spanish to English and English to Spanish. Materials will be selected from journalism, business, literature, science, medicine, current events, and other fields of interest to the students registered. The course will be taught bilingually. Preq: SPAN 106 or SPAN 107; ENG 125. This course may be offered in a face-to-face or hybrid format.

SPAN242 (Liberal Arts) Commercial Spanish 3 hrs. 3 crs. 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 crs. 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 stressed in all five proficiency areas: listening and speaking, reading and writing, and culture. This course will be taught entirely in the target language. 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 crs. 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. Communication will be stressed in all five proficiency areas: listening and speaking, reading and writing, and culture. This course will be taught entirely in the target language. 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 crs. 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 professional. Communication will be stressed in all five proficiency areas: listening and speaking, reading and writing, and culture. This course will be taught entirely in the target language. 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 crs. 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.

SPAN281 (Liberal Arts) Advanced Spanish in the Disciplines II 1 hrs. 1 crs. 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 crs. 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 crs. 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 crs. 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 crs. 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 crs. 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 crs. 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 (Not Liberal Arts) Puerto Rican Literature 3 hrs. 3 crs. 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 crs. 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 crs. 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.

SPAN307 (Liberal Arts) Latin American Film 3 hrs. 3 crs. This course is a historical survey of artistic, technological, and industrial developments of cinema in Latin America. The films screened are representative of major developments in Latin American film history: technological, aesthetic, industrial and sociocultural. Through readings and screenings, the student considers such topics as: major

genres and their relation to Latin American attitudes and values, the work of the great Latin American film directors, and the historical role of films. Preq: ENG 125; Department permission required. This course may be offered in a face-to-face, hybrid or asynchronous online format. This course is cross-listed with HUM 307. Not open to students with credit in HUM 307.

SPAN308 (Liberal Arts) Approaches to Spanish Language Acquisition 3 hrs. 3 crs. 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 crs. 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 crs. 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 (Not Liberal Arts) Cuban Literature 3 hrs. 3 crs. 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 crs. 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 crs. 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 crs. 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 crs. 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, Arnoniz, Fernan Caballero, Valera, Galdos, Pardo Bazan. Preq: SPAN 200.

SPAN324 (Liberal Arts) Generation of 1898 to the Spanish Civil War 3 hrs. 3 crs. 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 crs. Novel, drama, essay, and lyric poetry of 20th century Spain after 1936. Preq: SPAN 200.

SPAN351 (Liberal Arts) Cervantes 3 hrs. 3 crs. 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.

SPAN413 (Liberal Arts) Hispanic Civilization 3 hrs. 3 crs. 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 crs. 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 crs. 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 crs. 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 crs. 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 crs. 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 crs. A special topic related to writing. Preq: SPAN 208 and SPAN 209. The topic varies with each offering.

Speech Communication

SPCH101 (Liberal Arts) Fundamentals of Speech Communication 3 hrs. 3 crs. This course introduces students to the speech communication discipline through intrapersonal, interpersonal, and public speaking levels of speech communication. In addition, this course will illustrate 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. [Flexible Core: Creative Expression]

SPCH160 (Liberal Arts) Fundamentals of Oral Interpretation: Prose and Poetry 3 hrs. 3 crs. 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. [Flexible Core: Creative Expression]

SPCH182 (Liberal Arts) Voice and Diction 3 hrs. 3 crs. 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 crs. 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.

SPCH201 (Liberal Arts) Argumentation and Debate 3 hrs. 3 crs. Introduction to the theories, concepts and practice of argumentation and debate. This is a dialectical course with a significant amount of time spent in oral presentations, cross-examination and formal debate exercises. The course assumes that the student has an understanding of basic research and public speaking skills. Preq: SPCH 101, ENG 125 or permission of instructor. Coreq: SPCH 101, ENG 125 or permission of instructor.

SPCH230 (Liberal Arts) Business and Organizational Communication 3 hrs. 3 crs. This course presents communication as integral to management strategy and as a critical component for success in the workplace. Students will develop a foundation for designing effective messages from concept to delivery. They will use a strategic communication model to identify objectives, analyze

audiences, and create the most effective arrangement and channel for that message. Particularly, the course emphasizes elements of persuasive communication: how to design messages for diverse audiences and how to present that information in a credible and convincing way. Preq: ENG 125.

SPCH231 (Liberal Arts) Rhetorical Composition 3 hrs. 3 crs. 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 crs. The communications media, emphasis on history, scope, function, regulation, and especially social implications. Preq: Sophomore status.

SPCH260 (Liberal Arts) Public Communication 3 hrs. 3 crs. This course explores the theories and practices of communicative approaches used to inform and persuade in business, politics and society. It prepares students for careers using a variety of media to influence public opinion, promote a product, and advocate a cause or advance an organization. We will emphasize the persuasive elements of message design, campaign development and implementation, and audience identification and appeal, with a strong focus on techniques of communication in public relations including the creation of press kits, public service announcements and public relations campaigns. Preq: ENG 125. This is a Writing Intensive course.

SPCH270 (Liberal Arts) Gender and Communication 3 hrs. 3 crs. This course explores representation, performance, and images of gender in communication. Using various theories from cultural studies, media studies, and communication studies, we will examine the processes and practices of gender and sexuality. The purpose of this course is for each student to recognize and understand how gender impacts and is impacted by our culture and communicative practices. We will explore how gender and sexuality intersect with race, ethnicity, class, and identity practices; we will also learn how cultural institutions inform our ideas of gender and sexuality. Preq: ENG 125. This is a Writing Intensive course.

SPCH303 (Liberal Arts) Ethics and the Freedom of Speech 3 hrs. 3 crs. 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 crs. 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 crs. 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.

SPCH330 (Liberal Arts) Sports Communication 3 hrs. 3 crs. This course introduces students to sports communication and current issues within this growing field. Students will explore theories and concepts within sports communication research and apply these theories to diverse topics and studies. This course will assess the history of sports communication research, case studies of major

sporting events, current issues within sports communication, and the cultural impact of sports on communication. Preq: ENG 125. This is a Writing Intensive course.

SPCH333 (Liberal Arts) Major American Spokesmen 3 hrs. 3 crs. 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 crs. 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 Mass Media 3 hrs. 3 crs. The nature of persuasion and propaganda as applied to all facets of mass media, both commercial and public. This course explores the implications of persuasion and propaganda through key concepts, theories and applications using contemporary case studies. Preq: ENG 125. Coreq: SPCH 250 or CT 201. This is a Writing Intensive course.

SPCH390 (Liberal Arts) Special Studies Seminar I 3 hrs. 3 crs. An intensive study of a selected topic from a speech area. Preq: Junior or senior status and permission of instructor. The topic varies with each offering. This course may be repeated for no more than 6 credits if different topics are studied.

SPCH391 (Liberal Arts) Special Studies Seminar II 3 hrs. 3 crs. An intensive study of a selected topic from a speech area. Preq: Junior or senior status and permission of instructor. The topic varies with each offering. This course may be repeated for no more than 6 credits if different topics are studied.

SPCH392 (Liberal Arts) Special Studies Seminar III 3 hrs. 3 crs. An intensive study of a selected topic from a speech area. Preq: Junior or senior status and permission of instructor. The topic varies with each offering. This course may be repeated for no more than 6 credits if different topics are studied.

SPCH490 (Liberal Arts) Independent Research TBA hrs. 3 crs. Intensive individually guided advanced research in a speech area. Preq: Senior status and 12 credits in Speech or permission of instructor. Hours arranged.

Study Abroad

STABD1 (Liberal Arts) Study Abroad 1 hrs. 1 crs. See Department for Description.

STABD2 (Not Liberal Arts) Study Abroad 2 hrs. 2 crs. See Department for Description.

STABD3 (Liberal Arts) Study Abroad 3 hrs. 3 crs. See Department for Description.

STABD4 (Not Liberal Arts) Study Abroad 4 hrs. 4 crs. See Department for Description.

STABD5 (Not Liberal Arts) Study Abroad 5 hrs. 5 crs. See Department for Description.

STABD6 (Not Liberal Arts) Study Abroad 6 hrs. 6 crs. See Department for Description.

STABD7 (Liberal Arts) Study Abroad 7 hrs. 7 crs. See Department for Description.

STABD8 (Not Liberal Arts) Study Abroad 8 hrs. 8 crs. See Department for Description.

STABD9 (Not Liberal Arts) Study Abroad 9 hrs. 9 crs. See Department for Description.

STABD10 (Not Liberal Arts) Study Abroad 10 hrs. 10 crs. See Department for Description.

STABD11 (Not Liberal Arts) Study Abroad 11 hrs. 11 crs. See Department for Description.

STABD12 (Not Liberal Arts) Study Abroad 12 hrs. 12 crs. See Department for Description.

Swahili

SWA101 (Liberal Arts) Elementary Swahili I 4 hrs. 3 crs. Basic principles of a beginner's course; designed to give the foundations of the language. Preq: Placement by department. Offered when the demand exists. 2 hrs. recitation, 2 hrs. laboratory.

SWA102 (Liberal Arts) Elementary Swahili II 4 hrs. 3 crs. Continuation of the beginner's course; more complex grammatical structures, integrated readings and further practice in conversation. Preq: SWA 101 or placement by department. Offered when the demand exists. 2 hrs. recitation, 2 hrs. laboratory.

Theatre Arts

TA105 (Liberal Arts) Introduction to Scenic Design 3 hrs. 3 crs. This course encourages students to delve into the creative process of scenic design. Students will learn to think critically about a play in terms of spatial and visual elements, and how these elements can evocatively transform the production of a play for audience and actors alike. They will develop skills to conceptualize and present the environment of a play through basic professional rendering and modeling methods; includes group and individual projects.

TA107 (Liberal Arts) Introduction to Costume Design & Fashion 3 hrs. 3 crs. Techniques in costume design for the theatre in association with fashion and social styles of modern & historical periods. Emphasizing the design process from concept and research to final garments, students will conduct visual and trend research, explore various methods of rendering and revision, and present a fully developed term design project suitable for inclusion in a portfolio.

TA110 (Liberal Arts) Introduction to the Theatre 3 hrs. 3 crs. 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. [Flexible Core: Creative Expression]

TA112 (Liberal Arts) Voice and Stage Movement for Actors I 4 hrs. 3 crs. 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 crs. 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 crs. 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 crs. 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 crs. 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.

TA141 (Liberal Arts) Dance Techniques 1 3 hrs. 2 crs. This course is for dancers of all levels who wish to develop jazz dance techniques; depending upon student experience, advanced levels of jazz dance or alternate forms of theatrical dance, including funk, hip-hop, and tap also may be explored. Through physical exercises students will learn to execute specific dance movements and a variety of choreographed combinations for greater physical coordination, improved posture, and grace of movement; includes dance and stage vocabulary. Reading and viewing assignments focus on the appreciation of dance as an art form and a professional discipline. Attendance to one college theatre production and one profession dance performance is required. 1 hr. lecture, 2 hrs. laboratory.

TA142 (Liberal Arts) Dance Techniques 2 3 hrs. 2 crs. This course is for dancers of all levels who wish to develop jazz dance techniques; depending upon student experience, advanced levels of jazz dance or alternate forms of theatrical dance, including funk, hip-hop, and tap also may be explored. Through physical exercises students will learn to execute specific dance movements and a variety of choreographed combinations for greater physical coordination, improved posture, and grace of movement; includes dance and stage vocabulary. Reading and viewing assignments focus on the appreciation of dance as an art form and a professional discipline. Attendance to one college theatre production and one profession dance performance is required. 1 hr. lecture, 2 hrs. laboratory.

TA143 (Liberal Arts) Dance Techniques 3 3 hrs. 2 crs. This course is for dancers of all levels who wish to develop jazz dance techniques; depending upon student experience, advanced levels of jazz dance or alternate forms of theatrical dance, including funk, hip-hop, and tap also may be explored. Through physical exercises students will learn to execute specific dance movements and a variety of choreographed combinations for greater physical coordination, improved posture, and grace of movement; includes dance and stage vocabulary. Reading and viewing assignments focus on the appreciation of dance as an art form and a professional discipline. Attendance to one college theatre production and one profession dance performance is required. 1 hr. lecture, 2 hrs. laboratory.

TA144 (Liberal Arts) Dance Techniques 4 3 hrs. 2 crs. This course is for dancers of all levels who wish to develop jazz dance techniques; depending upon student experience, advanced levels of jazz dance or alternate forms of theatrical dance, including funk, hip-hop, and tap

also may be explored. Through physical exercises students will learn to execute specific dance movements and a variety of choreographed combinations for greater physical coordination, improved posture, and grace of movement; includes dance and stage vocabulary. Reading and viewing assignments focus on the appreciation of dance as an art form and a professional discipline. Attendance to one college theatre production and one profession dance performance is required. 1 hr. lecture, 2 hrs. laboratory.

TA201 (Liberal Arts) Shakespeare: From Script to Screen 3 hrs. 3 crs. This course offers an introductory survey of Shakespeare's plays along with an analysis of a range of the film versions made from them. The course will stress the reading of the plays as a first step to understanding the choices made by filmmakers in bringing them to the screen and explore the distinctive language of film as well. Students will be encouraged to explore how the different techniques and audiences of Shakespearean films produce effects quite different from what may have been possible in the original performances, or in later revivals on stage. Preq: ENG 125 and ENG 126. This is a Writing Intensive course. [Flexible Core: Creative Expression]

TA210 (Liberal Arts) History of Theatre 3 hrs. 3 crs. 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 primary and secondary historical sources, discussions of representative plays, and analysis of their relationship to cultural and social settings. Preq: ENG 125. This is a Writing Intensive course. [Flexible Core: Creative Expression]

TA211 (Liberal Arts) Basic Acting 4 hrs. 3 crs. 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 crs. 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 crs. 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.

TA216 (Liberal Arts) \$ Studies in Theatre Practice II 5 hrs. 3 crs. 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 crs. 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 crs. 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 crs. 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.

TA230 (Liberal Arts) Basic Lighting & Sound Production 3 hrs. 3 crs. This course encourages students to delve into the creative and practical aspects of basic lighting and sound instrumentation. Classes focus on both artistic and technical theory while seeking to provide a working knowledge of stage lighting, sound components, and their electrical systems. Specific focus will be given to modern lighting fixtures & functions, set-up of an effective sound system, professional rigging techniques and their capacities for artistic effect. Mandatory attendance at (and evaluation of) theatrical performances, both on and off campus, is required.

TA255 (Liberal Arts) American Musical Theatre 3 hrs. 3 crs. The examination of the elements and contents of the collaborative art form known as Musical Theatre. The musical will be examined in terms of elements, structure and original source material to understand how the elements work together to create a cohesive work of art. The course will identify and discuss the contributions of the major artists who have made a significant impact on the development of musical theatre. Preq: ENG 125. This course is cross-listed with MUS255. Not open to students with credit in, MUS301, TA301 or MUS255. This is a Writing Intensive course. [Flexible Core: Creative Expression]

TA261 (Liberal Arts) Intermediate Oral Interpretation: Drama 3 hrs. 3 crs. 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.

TA310 (Liberal Arts) History of African-American Theatre & Performance 3 hrs. 3 crs. History of African-American theatre, performance, and its representation from slavery to the present day in its American historical and cultural context. Emphasis is given to the works of African-American theatrical artists who have transgressed, transcended, and even subverted established racial categories. Includes examination and analysis of prominent African-American drama. Preq: TA 210.

TA311 (Liberal Arts) \$ Fundamental of Directing 4 hrs. 3 crs. 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 crs. 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 /or permission of instructor. 1 hour lecture, 1 hour recitation, 2 hours laboratory.

TA316 (Not Liberal Arts) Performance for Television 4 hrs. 3 crs. 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 crs. 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.

TA341 (Liberal Arts) Musical Theatre Performance 1 4 hrs. 3 crs. This course emphasizes acting through singing and is designed for any student who is interested in developing their singing abilities and strengthening their knowledge of musical theatre as an art. Students will explore and analyze text and music from various genres within the musical comedy rubric, and develop their ability in song interpretation, vocal production, audition technique, and sightsinging. There will also be choral work and elementary studies in jazz dance. Mandatory attendance at two theatrical performances and analysis papers will be required. TA 341 may be repeated for a total of six credits. 2 hrs. lecture, 2 hrs. laboratory.

TA342 (Liberal Arts) Musical Theatre Performance 2 4 hrs. 3 crs. This course emphasizes acting through singing and is designed for any student who is interested in developing their singing abilities and strengthening their knowledge of musical theatre as an art. Students will explore and analyze text and music from various genres within the musical comedy rubric, and develop their ability in song interpretation, vocal production, audition technique, and sightsinging. There will also be choral work and elementary studies in jazz dance. Mandatory attendance at two theatrical performances and analysis papers will be required. TA 341 may be repeated for a total of six credits. 2 hrs. lecture, 2 hrs. laboratory.

TA350 (Liberal Arts) Religion and the Theatre 3 hrs. 3 crs. The primary purpose of this course is that students will be able to effectively articulate, critique in writing, and contextualize the major uses, concepts, and ideologies from various religions as they directly apply to Western theatre. Students will be expected to understand the development, expansion, and defense of religious philosophies and ideologies about theatre, performance, and dramatic literature as it relates to religious thought. Preq: ENG 125 and TA 210.

TA390 (Liberal Arts) Special Studies Seminar I 3 hrs. 3 crs. An intensive study of a selected topic from an area in Theatre Arts. Preq: Junior or senior status and department permission required. The topic varies with each offering. This course may be repeated for no more than 6 credits if different topics are studied.

TA391 (Liberal Arts) Special Studies Seminar II 3 hrs. 3 crs. An intensive study of a selected topic from an area in Theatre Arts. Preq: Junior or senior status and permission of instructor. The topic varies with each offering. This course may be repeated for no more than 6 credits if different topics are studied.

TA392 (Liberal Arts) Special Studies Seminar III 3 hrs. 3 crs. An intensive study of a selected topic from an area in Theatre Arts. Preq: Junior or senior status and permission of instructor. The topic varies with each offering. This course may be repeated for no more than 6 credits if different topics are studied.

TA411 (Liberal Arts) History of Avant-Garde Performance 3 hrs. 3 crs. 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 TBA hrs. 3 crs. 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 crs. 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. Preq: ENG 125. Not open to students with credit in English 211. This course can be offered as a face-to-face course, a hybrid course, or as a fully online asynchronous course. This is a Writing Intensive course. [Flexible Core: World Cultures and Global Issues]

WLIT205 (Liberal Arts) Introduction to Francophone Literature 3 hrs. 3 crs. 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. This is a Writing Intensive Course. [Flexible Core: World Cultures and Global Issues]

WLIT206 (Liberal Arts) Introduction to the Literature of the Caribbean 3 hrs. 3 crs. Introduction to the Literature of the Caribbean. Preq: ENG 125.

WLIT207 (Liberal Arts) Introduction to Latin American Literature 3 hrs. 3 crs. Introduction to the literature of Latin America. Preq: ENG 125. [Flexible Core: World Cultures and Global Issues]

WLIT210 (Liberal Arts) North African Literature in Translation 3 hrs. 3 crs. 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. Preq: ENG 125. This is a Writing Intensive course. [Flexible Core: World Cultures and Global Issues]

WLIT211 (Liberal Arts) Italian Theatre in Translation 3 hrs. 3 crs. 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. [Flexible Core: World Cultures and Global Issues]

WLIT212 (Liberal Arts) Masterpieces of Spanish Literature in Translation 3 hrs. 3 crs. Representative works from the origins of Spanish literature to the present. In this survey course students will read a selection of Spanish texts in translation from each major literary period or movement. Theories of translation will be examined. These texts will be studied within the context of the cultural milieu of the day as well as within a comparative framework. Texts will be related to contemporary works from European and American literary traditions. Issues of ethnicity and gender will also be explored throughout the course. Preq: ENG 125. Not credited toward fulfillment of Spanish Major requirements. Not offered on a regular basis. Availability to be determined by the department. This course may be offered as a face-to-face course or a hybrid course. [Flexible Core: World Cultures and Global Issues]

WLIT215 (Liberal Arts) The Nineteenth Century Continental European Novel of Adultery in Translation 3 hrs. 3 crs. This course will study the presentation of the theme of adultery in novels from Spain, France, Italy, Russia and Portugal. Theories of literary translation will be examined. Themes of societal values, the representation of women, the family dynamics present in these novels, as well as literary movements and of the novel in the Nineteenth century will be explored. These texts will be studied within the context of their own cultural milieu as well as within a comparative

framework. Texts will be related to contemporary works from other European traditions. Preq: ENG 125. This course may be offered as a face-to-face course, as a hybrid course or as an asynchronous online course. [Flexible Core: World Cultures and Global Issues]

WLIT225 (Liberal Arts) Introduction to Latino Literature in the U.S. 3 hrs. 3 crs. 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 crs. Introduces students to significant literature written by women in the 19th and 20th centuries throughout the world. Preq: ENG 125. 3 hours lecture.

WLIT230 (Liberal Arts) Divine Comedy in Translation 3 hrs. 3 crs. 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 department.

WLIT326 (Liberal Arts) Women's Writing: The Quest for the Self through Memory 3 hrs. 3 crs. 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. Preq: ENG 125 and WRIT 301. This is a Writing Intensive course.

WLIT394 (Liberal Arts) Writing of Diasporas 3 hrs. 3 crs. This course explores writing produced by authors in Diasporic contexts. The assigned readings and films examine intersections between Diasporic identities and issues related to postcolonialism, imperialism, migration, globalization, nationalism, citizenship, and assimilation. Preq: ENG 202 or ENG 200. This course is cross-listed with ENG 394. Not open to students with credit in ENG 394 or WLIT 330.

WLIT396 (Liberal Arts) Global Women Writers 3 hrs. 3 crs. An examination of works by women writers across the world. The course will assess the significance and role of the writings as part of national and women's literatures, exploring questions of identity formation and/or disintegration, gender, social status, and ethnicity. Preq: ENG 126 or ENG 200. This course is cross-listed with ENG 396. Not open to students with credit in ENG 396.

Writing

WRIT301 (Liberal Arts) Research and Writing for the Major 4 hrs. 3 crs. 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: ENG 126 and Junior status. Course sections may be offered as hybrid online courses or as fully asynchronous online courses. 2 hours lecture, 2 hours laboratory. [College Option]

WRIT302 (Liberal Arts) Research and Writing for the Sciences, Mathematics, and Technology 4 hrs. 3 crs. 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: ENG 126 and Junior status. Course sections may be offered as hybrid online courses or as fully asynchronous online courses. 2 hours lecture, 2 hours laboratory. [College Option]

WRIT303 (Liberal Arts) Research and Writing for Professional Programs 4 hrs. 3 crs. 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: ENG 126 and Junior status. Course sections may be offered as hybrid online courses or as fully asynchronous online courses. 2 hours lecture, 2 hours laboratory. [College Option]

WRIT304 (Liberal Arts) Research and Writing for English Majors 4 hrs. 3 crs. Research, reading and writing for upper-division English courses; drafting, revising, editing and formatting documents. Readings are drawn primarily from areas pertinent to English literature, writing, rhetoric and the English language. Assignments will encourage students to explore the research resources, patterns of discourse, and conventions of the English Major. Preq: ENG 126 or ENG 200; Junior status; English majors only or department permissions required.

Youth Development

YD280 (Liberal Arts) Theory and Practice 4 hrs. 3 crs. Surveys the field of developmental psychology, with an emphasis on resiliency theory and strengths-based perspectives on youth development. Principles of developmental psychology lay the groundwork for practices working with children and youth. Topics covered include physical, cognitive, and social-emotional development, as well as the diversity of developmental needs across ages, abilities, culture and sociopolitical conditions. 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.

YD283 (Liberal Arts) Building Learning Communities 4 hrs. 4 crs. Building Learning Communities surveys the field of educational psychology, with an emphasis on teaching practices that help build learning communities. Drawing upon various theories and related practices, students will learn how to design learning objectives, curriculum plans, interdisciplinary and thematic lessons, and multiple forms of assessment, as well as draw upon community resources. Students will also articulate a personal teaching philosophy as it relates to their practice. Preq: EDUC 271. Coreq: EDUC 271. This course carries a Liberal Arts designation. 15 hours of fieldwork is required.

YD289 (Liberal Arts) Understanding Youth in the Urban Context 3 hrs. 3 crs. In this course, students will delve into original texts to examine critical perspectives on urban youth, youthhood, and constructions of youth identity(ies) both in the U.S. and cross-culturally. It begins with an understanding of young people: how they are seen, where they are seen, when they are seen. The spaces where 'youth' and 'youthhood' are constructed in relation to culture, social class, ethnicity, language, race, gender, sexual orientation are

examined and the implications for policy and practice discussed. Preq: ENG 125. This course is cross-listed with ANTH 289 and SOC 288. Not open to students with credit in ANTH 289 or SOC 288. [Flexible Core: Individual and Society]

YD290 (Liberal Arts) Action Research for Practitioners 2 hrs. 2 crs. Action Research for Practitioners supports practitioners who work with young people in formal, informal or non-formal education settings to define, research, and address problems and issues within their practice through an action-based, reflective inquiry approach. The course supports students working in a wide variety of educational settings to locate ideas for research within the educational communities that they work. Students define an area of study, develop and implement an action research methodology, gather and interpret data, and then draw implications for their practice. Preq: Permission of department. This course carries a Liberal Arts designation. This course may be offered as an Independent Study.

YS301 (Not Liberal Arts) Independent Studies in Youthwork Practice 4 hrs. 4 crs. Independent Study in Youthwork Practice is an upper level experiential course designed for students in the Youth Studies Minor, but open to all. Students will select a youth organization for their placement where they will work as youthwork practitioners for the duration of the semester at least 30 hours. The placement will be accompanied by weekly instruction and discussions during which time students reflect on their experiences. Placements will be supervised by the instructor. Reflections will be guided by readings and course topics as well as emergent experiences on site. This course may be offered in a face-to-face or hybrid format. Preq: YD 289 and department permission.

YS389 (Liberal Arts) The American Teenager: Rewriting History 3 hrs. 3 crs. Narratives of the American Teenager are typically based on the White, male rebel emerging in pop culture, literature, movies, and advertising. This course will explore that narrative and the history and rhetoric of 'teenager' in the U.S. The second part of the course will engage students in actively (re)writing that narrative, integrating diverse contemporary perspectives of youth and youth culture from a variety of genres and expressions. Preq: Junior status. This course is cross-listed with HIST 389. Not open to students with credit in HIST 389.

Yiddish

YID101 (Liberal Arts) Elementary Yiddish I 4 hrs. 4 crs. 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 crs. 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.

CS100 (Liberal Arts) Introduction to Computational Thinking 3 hrs. 3 crs. Various computing terminologies; algorithms and how they are used to program simple computer applications; introduction to object-oriented programming; program development; major concepts of programming: variables, data types, functions, parameters, conditionals, loops; application of simple programming in solving practical problems.

Materials and Transportation Fees

Course Fee

*Transportation Fee

ASTR 141 \$20
BIO 201 \$25
BIO 202 \$25
BIO 234 \$50
BIO 235 \$50
BIO 265 \$75
BIO 281 \$50
BIO 301 \$75
BIO 308 \$25
BIO 309 \$50
BIO 320 \$75
BIO 325 \$25
BIO 331 \$75
BIO 334 \$50
BIO 403 \$50
BIO 411 \$50
BIO 415 \$50
BIO 444 \$75
BIO 452 \$75
BIO 465 \$100
BIO 466 \$100
BIO 477 \$30
BIO 480 \$50
BTEC 302 \$100
BTEC 350 \$25
BTEC 352 \$25
BTEC 480 \$50
CHEM 107 \$40
CHEM 109 \$40
CHEM 112 \$40
CHEM 232 \$40
CHEM 233 \$40
CHEM 235 \$40
CHEM 241 \$40
CHEM 341 \$40
CHEM 342 \$40
CHEM 421 \$40
CHEM 490 \$40
CHEM 491 \$40
CHEM 492 \$40
CLS 252 \$100
CLS 330 \$100
CLS 332 \$100
CLS 341 \$100
CLS 343 \$100
CLS 351 \$100
CLS 352 \$100
CLS 357 \$100
CT 101 \$30
CT 137 \$60
CT 160 \$30
CT 210 \$60

CT 240 \$40
CT 244 \$40
CT 345 \$40
CT 355 \$40
CT 360 \$30
CT 370 \$30
CT 381 \$30
CT 385 \$30
CT 399 \$30
EDUC 230 \$0
EDUC 271 \$0
EDUC 283 \$30
EDUC 301 \$0
EDUC 320 \$20
EDUC 323 \$20
EDUC 340 \$30
EDUC 352 \$0
EDUC 369 \$30
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EDUC 449 \$30
EDUC 458 \$30
EDUC 459 \$30
EHS 140 \$25
EHS 212 \$75
EHS 351 \$20
EHS 420 \$20
EHS 427 \$30
EHS 428 \$20
EHS 498 \$75
EHS 499 \$75
FA 264 \$60
FA 265 \$60
FA 284 \$30
FA 364 \$60
FA 365 \$60

FA 384 \$30	MS 375 \$15
FA 455 \$40	MSSR 320 \$15
FA 456 \$40	MUS 299 \$75
FA 481 \$60	NURS 203 \$125
FA 482 \$60	NURS 204 \$125
GEOL 110 \$15	NURS 210 \$135
GEOL 120 \$15	NURS 310 \$135
GEOL 121 \$15	NURS 320 \$135
GEOL 140 \$25	NURS 340 \$135
GEOL 207 \$25	NURS 415 \$135
GEOL 211 \$40	NURS 420 \$135
GEOL 217 \$40	NURS 430 \$135
GEOL 225 \$40	OT 313 \$25
GEOL 282 \$20	OT 315 \$50
GEOL 308 \$45	OT 316 \$32
GEOL 323 \$40	OT 318 \$41
GEOL 332 \$30	OT 319 \$25
GEOL 334 \$40	OT 321 \$15
GEOL 340 \$40	OT 322 \$50
GEOL 341 \$40	OT 403 \$25
GEOL 342 \$50	OT 411 \$13
GEOL 344 \$50	OT 423 \$25
GEOL 346 \$50	OT 424 \$25
GEOL 349 \$35	OT 505 \$50
GEOL 411 \$40	OT 506 \$125
GEOL 412 \$50	OT 508 \$2
GEOL 425 \$200	OT 517 \$25
GEOL 441 \$40	OT 518 \$25
GEOL 496 \$75	OT 519 \$25
GEOL 497 \$75	OT 522 \$25
GEOL 498 \$75	OT 523 \$100
GEOL 499 \$75	OT 524 \$8
HE 111 \$15	OT 524 \$75
HE 200 \$15	OT 641 \$12
HE 224 \$15	OT 642 \$12
HE 317 \$15	OT 643 \$50
HE 363* \$25	OT 644 \$70
HE 452 [Co-seated PE 452] \$25	OT 645 A \$50
HPPA 502 \$100	OT 645 B \$50
HPPA 504 \$100	OT 647 \$50
HPPA 522 \$100	PE 157 \$15
HPPA 524 \$100	PE 141 \$15
HPPA 530 \$150	PE 151 \$15
HPPA 540 \$100	PE 154 \$15
HPPA 552 \$100	PE 156 \$15
HPPA 554 \$200	PE 158 \$15
HPPA 556 \$100	PE 159 \$15
HPPA 650 \$200 Each	PE 162 \$15
HPPA 652 \$200 Each	PE 163 \$15
HPPA 654 \$200 Each	PE 164 \$15
HPPA 656 \$200 Each	PE 165 \$15
HPPA 658 \$200 Each	PE 166 \$15
HPPA 660 \$200 Each	PE 167 \$15
HPPA 662 \$200 Each	PE 170 \$115
HPPA 664 \$200 Each	PE 171 \$15
HPPA 668 \$200 Each	PE 173 \$15
HS 105 \$50	PE 174 \$15
HS 201 \$50	PE 176 \$15
HS 401 \$0	PE 177 \$10
HS 402 \$25	PE 179 \$125

PE 181 \$15	PHS 491 \$40
PE 182 \$15	PHS 502 \$75
PE 183 \$15	PHYS 113 \$20
PE 184 \$15	PHYS 114 \$20
PE 185 \$15	PHYS 140 \$20
PE 215 \$15	POL 228 \$15
PE 271 \$15	POL 241 \$15
PE 278 (co-seated PE 176) \$10	SCWK 101 \$120
PE 279 \$125	SCWK 203 \$120
PE 280 \$250	SCWK 300 \$120
PE 282 \$15	SCWK 360 \$120
PE 284 \$15	SCWK 410 \$250
PE 285 \$15	SCWK 410 \$120
PE 287 \$15	SCWK 492 \$250
PE 358 \$15	SCWK 492 \$120
PE 362 \$15	TA 107 \$50
PE 363* \$25	TA 215 \$60
PE 452 [Co-seated HE 452] \$25	TA 216 \$60
PHS 480 \$40	TA 217 \$60
PHS 481 \$40	TA 218 \$60
PHS 490 \$40	TA 219 \$60

College Administration

City University Of New York

CUNY Administration

Felix V. Matos Rodriguez, Chancellor

Daniel Lemons, Interim University Provost

Hector Batista, Executive Vice Chancellor and Chief Operating Officer

Glenda Grace, Senior Vice Chancellor for Institutional Affairs, Strategic Advancement and Special Counsel

Matthew Sapienza, Senior Vice Chancellor and Chief Finance Officer

Pamela S. Silverblatt, Interim General Counsel and Sr. Vice Chancellor for Labor Relations and Senior Vice Chancellor for Legal Affairs

Brian Cohen, Vice Chancellor and University Chief Information Officer

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Margaret Egan, Interim Vice Chancellor for Human Resources and Director for Strategic Initiative

Richard C. White, Vice Chancellor for Risk, Audit and Compliance

Judith Bergtraum, Vice Chancellor for Facilities Planning, Construction and Management

Gayle M. Horwitz, Senior Advisor to the Chancellor and Secretary of the Board

Christopher Rosa, Interim Vice Chancellor for Student Affairs

Dolly Martinez, Chancellor's Chief of Staff and Associate Vice Chancellor for the Executive Office

Vivek Upadhyay, University Executive Registrar

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Jong I. Lee, Ph. D., Director, Honors Program

Dawn Hewitt, B.A., M.P.A., Director, Research and Sponsored Programs

Kennybel Pena, Ed. D., Interim Director Academic Advisement Center

Erzulie Mars, M.S.Ed., Manager

Carollette McDonald, B.A., M.A., College Instructional Support Manager, Collaborative Learning Center

Njoki-Wa Kinyatti, B.A., M.L.I.S., M.P.A., Chief Librarian

Reginald Madden, B.A., M.A., Academic Affairs Manager and Liaison to York Early College Academy

Greet Van Belle, Ph. D., Director, Center for Teaching, Learning and Educational Technologies

Lester Raphael, B.A., M.A., Director, College Now

Maribel Donado, Faculty Work Load Coordinator

Division of Administrative Affairs

Ismael Perez, B.A., M.B.A., Asst. Vice President for Planning and Budget

Sabrina Johnson-Chandler, B.A., M.A., M.Div., Executive Director of Human Resources

Onyekachi Akoma, Executive Director Facilities Planning and Operations

Claudio Lindow, Interim Chief Information Systems Officer
Harry Wells, Manager, Small Business Development Center
Greg Vega, Director, Service Delivery
Kamrul Ahsan, B.Sc., ME, Director, IT Academic Applications
Noel Gamboa, B.S., Director, Space Planning and Facility Services
Rafael Nunez, B.A., M.F.A., Director, WEB Systems
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Beverly Brown, B.B.A., Director, Student Financial Aid
Linda Ribaud, Director, The Learning Center

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Hopeton Allen,^Â Interim Director of The Percy E. Sutton SEEK Program
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Charlene Dertinger, Director, York Child and Family Center
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Marva Frederick, M.S., Manager of Health Services
LTC LaShell Davis, Commander ROTC
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Jean Phelps, Ph.D., Director of Student Activities
Jonathan Quash, M.S., Student Life Manager, Men's Center

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Dana Trimboli, Chief of Staff, Interim Vice President
Janine Scott, Manager of Operations
Nyisha Howell, Director of Strategic Partnerships and Foundation Relations
Temitope Adelegan, Development Research Specialist

Faculty

Aceves, Robert, Associate Professor, Business and Economics - EDD, Oklahoma State University; MS, Embry-Riddle Aeronautical University; BS, Embry-Riddle Aeronautical University

Acker, Gila, Professor and Chair, Social Work - DSW, Adelphi University; certificate, The Long Island Institute for Mental Health; MSW, Fordham University; BS, Haifa University, Israel

Ajuluchukwu, David, Associate Professor, Health and Human Performance - certificate, Masters Health Education Specialists; PhD, West Virginia University; certificate, West Virginia University; MPA, West Virginia University; MS, West Virginia University; BS, University of Waterloo

Alcindor, Magalie, Assistant Professor, Nursing

Alexandre, Margaret, Associate Professor, Nursing - PhD, Graduate Center; MS, Adelphi University; certificate, Adelphi University

Allen-McCombs, Jennette, Assistant Professor, Social Work - PhD, Stony Brook University; MSW, Stony Brook University; BS, SUNY College at Old Westbury

Amaghionyeodiwe, Lloyd, Associate Professor, Business and Economics - PhD, University of Ibadan, Nigeria; MS, University of Maryland University College; MS, University of Ibadan, Nigeria; BS, University of Ibadan, Nigeria

Amenyo, John-Thones, Assistant Professor, Mathematics and Computer Science - PhD, Columbia University; MPhil, Columbia University; MS, Columbia University; BS, MIT

Annansingh-Jamieson, Fenio, Associate Professor and Chair, Business and Economics - PhD, University of Sheffield; MS, University of Sheffield; , University of Sheffield

Apkarian, Jacob, Assistant Professor, Behavioral Sciences - PhD, University of California, Riverside; BS, Rensselaer Polytechnic Institute

Arsov, Ivica, Professor and Chair, Biology - PhD, New York University; MS, University of Belgrade; MS, New York University; BS, University of Belgrade

Ashton, William, Associate Professor, Behavioral Sciences - PhD, Miami University; MA, Miami University; BA, Earlham College

Auriemma, Donald, Associate Professor and Chair, Occupational Therapy - MS, Queens College of the City University of New York; BS, York College of the City University of New York

Bahri, Hamid, Associate Professor, World Languages, Literatures, and Humanities - PhD, Graduate Center, CUNY; MPhil, Graduate Center, CUNY; MA, Graduate Center, CUNY; certificate, Marymount Manhattan College/UN

Bai, Xin, Associate Professor, Teacher Education - EDD, Columbia University; BA, Jilin University

Bajaj, Lalit, Instructor, World Languages, Literatures, and Humanities

Ballantyne, Margaret, Professor, World Languages, Literatures, and Humanities - PhD, Brown University; MA, Brown University; BA, Adelphi University; certificate, Instituto de Cultura Hispanica, Madrid

Barley, Linda, Professor and Chair, Health and Human Performance - PhD, Teachers College, Columbia University; MS, Hunter College, The City University of New York; BA, St. Francis College

Barnes, Aegina, Lecturer, World Languages, Literatures, and Humanities - PhD, Temple University; MFA, Temple University; BS, Temple University; BS, Radcliffe College

Beaton, Laura, Associate Professor, Biology - PhD, McMaster University; BS, McMaster University; non-degree, York College; certificate, City University of New York; certificate, York College

Beckerman, Bernard, Associate Professor, Health Professions - MD, University of Brussels; BA, Hunter College (CUNY)

Benedito, Roberto, Assistant Professor, History, Philosophy and Anthropology - PhD, University At Buffalo, SUNY at Buffalo; MA, University At Buffalo, SUNY at Buffalo; JD, College of Law, University of the Philippines

Berwid, Olga, Assistant Professor, Behavioral Sciences - PhD, The Graduate Center of the City University of New York

Bharosay, Boadnarine, Professor, Accounting and Finance - BS, York College; MA, Brooklyn College; certificate, Baruch College

Birk, Alexander, Assistant Professor, Biology

Bisla, Sundeep, Associate Professor, English - PhD, University of Sydney; MA, Yale University; BA, Harvard University

Bradbury, Louis, Assistant Professor, Biology - PhD, Southern Cross University; , Flinders University; BS, Flinders University

Brodsky, Mitchell, Associate Professor, Health and Human Performance - PhD, New York University; MA, New York University; BS, Indiana University of Pennsylvania

Brugna, Robert, Associate Professor, Health Professions - PhD, Capella University; MBA, Baruch College; BS, Touro College

Buxenbaum, Nina, Associate Professor, Performing and Fine Arts - MFA, Maryland Institute College of Art; BFA, Washington University in St. Louis

Cao, Linglan, Doctoral Lecturer, English - EDD, Teachers College, Columbia University; MA, Teachers College, Columbia University; MA, Suzhou University, China; BA, Suzhou University, China

Carta-Gerardino, Edoardo, Assistant Professor and Chair, Mathematics and Computer Science - PhD, Cornell University; MS, Cornell University

Casey, John, Doctoral Lecturer, Biology - MD, Open International University; MD, Ross University

Chakravarti, Deb, Professor, Chemistry - DPhil, University of Oxford; PhD, University of Calcutta; MS, University of Calcutta; BS, University of Calcutta

Chang, Emmanuel, Professor and Chair, Chemistry - PhD, The Rockefeller University; BA, Princeton University

Chirico, Donna, Professor, Behavioral Sciences - EDD, Columbia University Teachers College; MS, Fordham University at Lincoln Center; BA, York College of The City University of New York

Clovey, Robert, Associate Professor, Accounting and Finance - MS, Queens College - CUNY; BS, York College - CUNY

Coen, Robert, Professor, Mathematics and Computer Science - PhD, Adelphi University; MS, New York University; BS, Brooklyn College

Cooper, Zena, Clinical Professor, Teacher Education

Corcoran, Matthew, Lecturer, English - MA, Columbia University; BA, Amherst College

Costley, Alex, Associate Professor, Health and Human Performance - PhD, Columbia University; MA, Columbia University; BA, University of Massachusetts

Criss, Andrew, Doctoral Lecturer, Biology - DC, Life University; BA, SUNY Albany

Daher, Samira, Lecturer, Mathematics and Computer Science - MA, Queens College; BS, York College

DAlotto, Louis, Professor, Mathematics and Computer Science - PhD, CUNY Graduate Center; MS, Stevens Institute of Technology; BS, St. John's University

Daniels, Ron, Distinguished Lecturer, Behavioral Sciences - PhD, Union Graduate School

Daus, Diana, Assistant Professor, Occupational Therapy

Davidson, Emily, Associate Professor, Health Professions - DC, New York Chiropractic College; BS, SUNY- Stony Brook; BA, Pomona College

Davies, Kristin, Associate Professor, Behavioral Sciences - PhD, Stony Brook University; MA, Stony Brook University; BA, Pennsylvania State University

DePalma, Helene, Associate Professor, Health Professions - MS, Fordham University; BS, State University of New York at Albany

Desamero, Ruel, Professor, Chemistry - PhD, University of Connecticut

Dhar, Ratan, Associate Professor, Earth and Physical Sciences - PhD, City University of New York; MPhil, City University of New York; MS, The University of Chittagong, Bangladesh; BS, The University of Chittagong, Bangladesh

Diao, Junli, Assistant Professor, Library - MLIS, McGill University; M Ed, Queen's University; BA, Henan University

Diner, Matthew, Assistant Professor, Social Work - PhD, Yeshiva University, Wurzweiler School of Social Work; MSW, Yeshiva University, Wurzweiler School of Social Work; BA, Stony Brook University

Dinsman, Melissa, Assistant Professor, English - PhD, University of Notre Dame; MA, University of York; BA, University of Nevada, Las Vegas

DiToro, Douglas, Lecturer, English - MA, Brooklyn College, City University of New York; BA, Brooklyn College, City University of New York

Donahue, Nadine, Associate Professor, Nursing - PhDc, CUNY Graduate Center; MS, Molloy College; BS, Wagner College

Drago, Margarita, Professor, World Languages, Literatures, and Humanities - PhD, The Graduate School and University Center of The City of New York; MA, City College/CUNY; BS, City College/CUNY; AA, Hostos Community College/CUNY

Drobnicki, John, Professor, Library - MLS, Queens College/CUNY; MA, St. John's University; BA, St. John's University; AA, St. John's University

Duncan, Robert, Associate Professor, Behavioral Sciences - PhD, University of California, San Diego; MA, University of California, San Diego; BA, University of California, San Diego

Emtage, Lesley, Assistant Professor, Biology - PhD, Columbia University; BS, University of Pittsburgh

Fearnley, Stephen, Associate Professor, Chemistry - PhD, University of Salford; BS, Sheffield City Polytechnic

Forrester, Wayne, Lecturer, Business and Economics - MBA, Adelphi University; BBA, Baruch College

Foster, Catherine, Doctoral Lecturer, Chemistry - BA, Willamette University; PhD, University of Washington

Francois, Jean, Professor, World Languages, Literatures, and Humanities - PhD, CUNY Graduate Center; MA, Hunter College; BS, Institut Supérieur Technique d'Haiti

Fusco, Dana, Professor, Teacher Education - PhD, CUNY Graduate Center; BA, SUNY at New Paltz

Garcia Marin, Virginia, Assistant Professor, Biology - MS, New York University; PhD, Complutense University of Madrid; BS, Complutense University of Madrid

Garley, Matthew, Assistant Professor, English - PhD, University of Illinois at Urbana-Champaign; MA, University of Illinois at Urbana-Champaign; BA, New Mexico State University

Gerena, Linda, Professor, World Languages, Literatures, and Humanities - PhD, San Diego State University and The Claremont Graduate University; MA, New York University, New York; MA, California State University, Los Angeles; BA, Brooklyn College, City University of New York

Ghelli, Samuel, Associate Professor, World Languages, Literatures, and Humanities - PhD, Rutgers University, NJ; MA, University of Florence, Italy

Gieseler, Carly, Associate Professor, Performing and Fine Arts - PhD, University of South Florida; MA, Hawaii Pacific University; BA, Rutgers University

Githuku, Nicholas, Assistant Professor, History, Philosophy and Anthropology - PhD, West Virginia University; non-degree, Mid-Level Professional Development Studies, Rotary International Certificate in Development and Peace & Conflict Studies, Chulalongkorn University, Bangkok-Thailand; MA, University of Nairobi; BA, First Class Honors, University of Nairobi

Glickman, Kim, Assistant Professor, Social Work - PhD, Columbia University; MPA, Harvard University; MSW, New York University; BA, Vassar College

Grasso, Linda, Professor, English - PhD, Brown University; MA, Brown University; BA, City University of New York Baccalaureate Program

Grosskopf, Nicholas, Professor, Health and Human Performance - EDD, Teachers College, Columbia University; MS, Teachers College, Columbia University; MA, New York University; BS, University of South Florida

Gutierrez, Franklin, Professor, World Languages, Literatures, and Humanities - PhD, The Graduate School and University Spanish CUNY, The Graduate Center; MA, The City College, The City University of New York; BA, Universidad Autonoma de Santo Domingo, Dominican Republic

Hajikano, Maki, Professor, Performing and Fine Arts - MFA, University of Oregon

Hall, Jonathan, Professor and Chair, English - PhD, Cornell University; MFA, Cornell University; BA, SUNY-Binghamton

Haller, Cynthia, Professor, English - PhD, Rensselaer Polytechnic Institute; MA, University of Pittsburgh; BA, Geneva College; BS, Geneva College

Hansen, Ian, Associate Professor, Behavioral Sciences - PhD, University of British Columbia; MA, University of Illinois-Urbana-Champaign; BA, Swarthmore College

Henry, Elise, Clinical Assistant Professor, Occupational Therapy - MS, Columbia University; BA, Amherst College

Herel, Jason, Assistant Professor, Health Professions

Horowitz, Beverly, Associate Professor, - PhD, Graduate School of Social Services, Fordham University; MS, Columbia University; BA, Stony Brook University

- Hsu, Chris**, Professor and Chair, Accounting and Finance - PhD, The Graduate Center, City University of New York; MS, St. Louis University; BS, National ChungHsing University, Taiwan
- Hua, Shao-Ying**, Associate Professor, Biology - PhD, Saga Medical School, Japan; MS, Second Military Medical University, China; BS, Shanxi Medical School, China
- Hughes, William**, Assistant Professor, English - MS, Columbia University School; BA, Brooklyn College; AAS, Kingsborough Community College
- Inayatulla, Shereen**, Associate Professor, English - PhD, University of Wisconsin, Milwaukee; MA, University of Windsor; BA, University of Manitoba
- Iratni, Omar**, Instructor, World Languages, Literatures, and Humanities
- Johnson, David**, Lecturer, Business and Economics - BS, Lowell Technological Institute
- Josephs, Kelly**, Professor, English - PhD, Rutgers University; MA, Florida International University
- Kaplan, Lillian**, Associate Professor, Occupational Therapy - PhD, Graduate Center, CUNY; MA, Queen College, CUNY; MA, Columbia University; BS, New York University
- Keiler, Leslie**, Professor and Chair, Teacher Education - PhD, University of Oxford; MA, Teachers College, Columbia University; MS, Stanford University; BA, Stanford University
- Kirk, Timothy**, Professor and Chair, History, Philosophy, and Anthropology - PhD, Villanova University; MA, Villanova University; BA, Bucknell University
- Kirkham, Phebe**, Lecturer, English - MFA, Brooklyn College; BA, Yale College
- Kolmos, John**, Assistant Professor, Business and Economics
- Korkou, Efstathia**, Assistant Professor, Business and Economics
- Kranacher, Mary-Jo**, Professor, Accounting and Finance - MBA, St. John's University; BS, York College, CUNY
- Lahey, Trace**, Clinical Professor, Teacher Education - EDD, Columbia University, Teachers College; MA, New York University; BA, University of Utah
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- Lee, Yong Kyu**, Assistant Professor, Business and Economics - PhD, Virginia Tech; MS, University of Alabama; BA, Hankuk University of Foreign Studies
- Letteney, Susan**, Professor, Social Work - DSW, Yeshiva University; certificate, New York University; MSW, Hunter College; BS, Vanderbilt University
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- Levinger, Louis**, Professor, Biology - PhD, University of North Carolina, Chapel Hill; BS, Antioch College
- Lewis, Glenn**, Professor, English - MA, City College CUNY; BA, Lehman College
- Lilavois, Cathleen**, Clinical Professor, Social Work
- Lipkind, Dina**, Assistant Professor, Biology - PhD, Tel Aviv University; MS, Tel Aviv University; BS, Tel Aviv University
- MacNeil, Margaret**, Professor, Biology - PhD, Boston University School of Medicine; AB, Smith College
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- Massimino, Phoebe**, Associate Professor, Business and Economics - PhD, City University of New York; MBA, Baruch College - CUNY; BA, Queens College - CUNY
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- McNeil, Gerard**, Professor, Biology - PhD, University of Massachusetts Medical School; BS, University of Massachusetts Dartmouth
- McNickle, Reinold**, Lecturer, Health and Human Performance - MPA, John Jay College; MS, Lehman College; BA, Lehman College
- Meddeb, Elizabeth**, Associate Professor, World Languages, Literatures, and Humanities - PhD, Columbia University; M Ed, Columbia University; MA, Columbia University; BA, Richmond University
- Milanes, Patricia**, Assistant Professor, English - MA, Hunter College, CUNY; BA, York College, CUNY
- Miller, Christina**, Assistant Professor, - MS, Queens College (CUNY); certificate, New York State Professional Certificate; MLS, Queens College (CUNY); certificate, New York State Permanent Certificate; certificate, New York State Certification; BA, York College (CUNY)
- Mokrue, Kathariya**, Associate Professor, Behavioral Sciences - PhD, Rutgers University; MS, Rutgers University; BA, Hunter College-CUNY
- Moldovan, Vadim**, Associate Professor, Social Work - PhD, Yeshiva University, Wurzweiler School of Social Work; MSW, Yeshiva University, Wurzweiler School of Social Work
- Musumeci, Daniele**, Associate Professor, Chemistry - PhD, Sheffield University; MS, Universita' di Catania; BS, Universita' di Catania
- Nath, Rishi**, Professor, Mathematics and Computer Science - PhD, University of Illinois; MA, Brandeis University; BA, University of Chicago
- Neale, Kay**, Lecturer, History, Philosophy and Anthropology - certificate, AT&T (LA, CA); MFA, Yale University, School of Drama; certificate, Announcer Training Studios; BA, Hunter College; AA, Bronx Community College
- Ogle, Patricia**, Lecturer, - MA, New York University; BA, Lynchburg College
- Ou, Chau**, Associate Professor, Business and Economics - PhD, Columbia University; MS, Columbia University; MS, Taiwan University; BS, Taiwan University
- Paglione, Timothy**, Professor and Chair, Earth and Physical Sciences - PhD, Boston University; BS, Stevens Institute of Technology
- Papa, James**, 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, Philosophy, and Anthropology - PhD, Columbia University; MA, Columbia University; BA, The City College of New York
- Pavletich, Kathleen**, Professor, Health Professions - PhD, Rutgers University; MS, St. John's University; BS, St. John's University
- Persaud, Harrynauth**, Associate Professor, Health Professions - , SUNY Downstate Medical Center; MS, University of Medicine and Dentistry of New Jersey; BS, York College - CUNY; certificate, University of Medicine and Dentistry of New Jersey; BS, York College - CUNY
- Phelps, Daniel**, Associate Professor, Performing and Fine Arts - BS, California State University Sacramento; MFA, Hunter College CUNY

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Powers, Meredith, Instructor, Library

Pratt, Damien, Lecturer, Social Work

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Proxam, Joseph, Instructor, World Languages, Literatures, and Humanities

Radhamohan, Chaitanand, Lecturer, Accounting and Finance

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Robie, Daniel, Assistant Professor, Chemistry - PhD, University of Illinois at Chicago; BA, Reed College

Robinson, Heather, Professor, English - PhD, Rutgers University; BA, University of Sydney

Rodgers, Selena, Associate Professor, Social Work - PhD, Adelphi University; MSW, Syracuse University; BS, Marymount College; AA, SUNY, Alfred State College of Technology

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Sharpe, Michael, Associate Professor, Behavioral Sciences - PhD, CUNY Graduate Center; MPhil, CUNY Graduate Center; MIA, Columbia University; certificate, Institute of Social Studies, The Hague, The Netherlands; BA, Rutgers College / Rutgers University

Shearin-Patterson, Tonya, Assistant Professor, Health Professions - MS, Adelphi University; BS, St. John's University

Sheidlower, Scott, Professor, Library - MLS, Queens College/CUNY; MA, New York University; MA, New York University; BA, Hunter College/CUNY

Silva, Andrea, Assistant Professor, English - PhD, Wayne State University; MA, Wayne State University; BA, Universidade Federal de Minas Gerais

Simpson, Todd, Assistant Professor, Library - MLIS, LIU; MA, King's College London; BA, Newbold College

Su, Di, Professor, Library - MLS, University at Albany - SUNY; , University of Minnesota; MM, University of Connecticut; MM, West Virginia University; BA, Shanghai Conservatory of Music

Sunmonu, Adefemi, Professor, Mathematics and Computer Science - PhD, University of Pittsburgh; MS, University of Pittsburgh; MS, University of Ife; BS, University of Nigeria

Swoboda, Debra, Professor and Chair, Behavioral Sciences - PhD, SUNY Stony Brook; MA, SUNY Stony Brook; BA, SUNY Stony Brook; , Concordia College, St. Paul; , Iowa University

Taylor-Haslip, Valerie, Associate Professor, Nursing

Thompson, Virginia, Assistant Professor, Mathematics and Computer Science - EDD, Teachers College Columbia University; MA, Teachers College Columbia University; BS, CUNY York College

Tung, Larry, Associate Professor, Performing and Fine Arts - MS, Columbia University; MFA, Brooklyn College/CUNY; BBA, Ming Chuan University

Tzanova, Stefka, Assistant Professor, Library - MLS, Queens College; MS, Technical University, Sofia

Vasquez, Eva, Associate Professor, World Languages, Literatures, and Humanities - PhD, City University of New York Graduate School; MA, Hunter College; BA, University of Puerto Rico

Vendryes, Margaret, Professor and Chair, Performing and Fine Arts - PhD, Princeton University; MA, Tulane University; AB, Amherst College

Villegas, Francisco, Associate Professor, Behavioral Sciences - PhD, City University of New York; BA, City College, City University of New York

Wang, Vivien, Associate Professor, Mathematics and Computer Science - PhD, Oklahoma State University; MS, Oklahoma State University; BE, University of Science and Technology Beijing

Weisblatt, Steven, Instructor, World Languages, Literatures, and Humanities

Werber, Galila, Associate Professor, Health and Human Performance - PhD, University of Florida; MS, Tel Aviv University

Wojciechowski, Radoslaw, Professor, Mathematics and Computer Science - PhD, City University of New York; BS, Indiana University

Wolosin, Dora, Assistant Professor, - PhD, New York University; MS, Hebrew University of Jerusalem; BS, Hebrew University of Jerusalem

Wu, Tsu, Professor, Mathematics and Computer Science

Yuan, Jeanetta, Clinical Professor, Health Professions

Zhang, Danyang, Associate Professor, Mathematics and Computer Science - PhD, University of Alabama; MS, University of Alabama; MS, Peking University; BS, Peking University

Zhang, Xiaodan, Associate Professor, Behavioral Sciences - PhD, Columbia University; MA, Columbia University; MA, CUNY Graduate Center; BA, East China Normal University

Zlabinger, Thomas, Assistant Professor, Performing and Fine Arts - PhD, Graduate Center / CUNY; 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.

Professors Emeriti

Anderson, Arthur, Professor Emeritus of Fine Arts

Anderson, Celestin, Professor Emerita of Black Studies

Anderson, Valerie, Professor Emerita of English

Andretta, Helen, Professor Emerita of English

Ashton, Vicki, Professor Emerita of Social Work

Baruch, Elayne, Professor Emerita of English

Bassin, Milton G., President Emeritus

Baum, Joan, Professor Emerita of English

Bieler, Arthur, Professor Emeritus of French

Bodi, Lewis, Professor Emeritus of Biology

Boyer, Marjorie, Professor Emerita of History

Bursuk, Laura, Professor Emerita of Education

Coleman, Charles, Professor Emeritus of English

Como, James, Professor Emeritus of Speech Communication

Cooper, Alan, Professor Emeritus of English

D'Adamo, Amadeo, Professor Emeritus of Biology

Dick, Stuart, Professor Emeritus of Behavioral Sciences

Divale, William, Professor Emeritus of Anthropology

Ernst, David, Professor Emeritus of Music

Feldstein, Elaine, Professor Emerita of English

Glenn, William, Professor Emeritus of Education

Gruen, Richard E., Professor Emeritus of Psychology

Hux, Samuel, Professor Emeritus of History/ Philosophy and English

Ignatow, David, Professor Emeritus of English

Johnson, Helen, Professor Emerita of English

Karp, Eric, Professor Emeritus of Psychology

Kirkpatrick, Carolyn, Professor Emerita of English

Kraus, Jerome, Professor Emeritus of Business

Kusnitz, Ivan, Professor Emeritus of Health and Physical Education

Lakatos, Steven, Professor Emeritus of Geology

Levantino, Barney R, Professor Emeritus of Business

Lewis, Leslie, Professor Emeritus of Biology

Liban, Eric, Professor Emeritus of Mathematics

Loring, Arthur, Professor Emeritus of Geology

Loughlin, William, Professor Emeritus of Health and Physical Education

Louis, Frances, Professor Emerita of English

Machalow, Robert, Professor Emeritus of Library

Malkevitch, Joseph, Professor Emeritus of Mathematics and Computer Science

Manche, Emanuel, Professor Emeritus of Chemistry

McGee, T. Howard, Professor Emeritus of Chemistry

Morton, William, Professor Emeritus of History

Nickolich, Barbara, Professor Emerita of Performing and Fine Arts

Ostholm, Shirley, Professor Emerita of Behavioral Sciences

Peterson, Frances, Professor Emerita of Social Work

Pineas, Rainer, Professor Emeritus of English

Pomilla, Frank, Professor Emeritus of Physics

Ranis, Peter, Professor Emeritus of Behavioral Sciences

Richards, Lynne, Professor Emerita of Chemistry

Rickard, Frederick S., Professor Emeritus of Student Development/Counseling

Rizzitiello, Theresa, Professor Emerita of Health and Physical Education

Rosenberg, Sidney, Professor Emeritus of Psychology

Rosenthal, Beth, Professor Emerita of Social Work

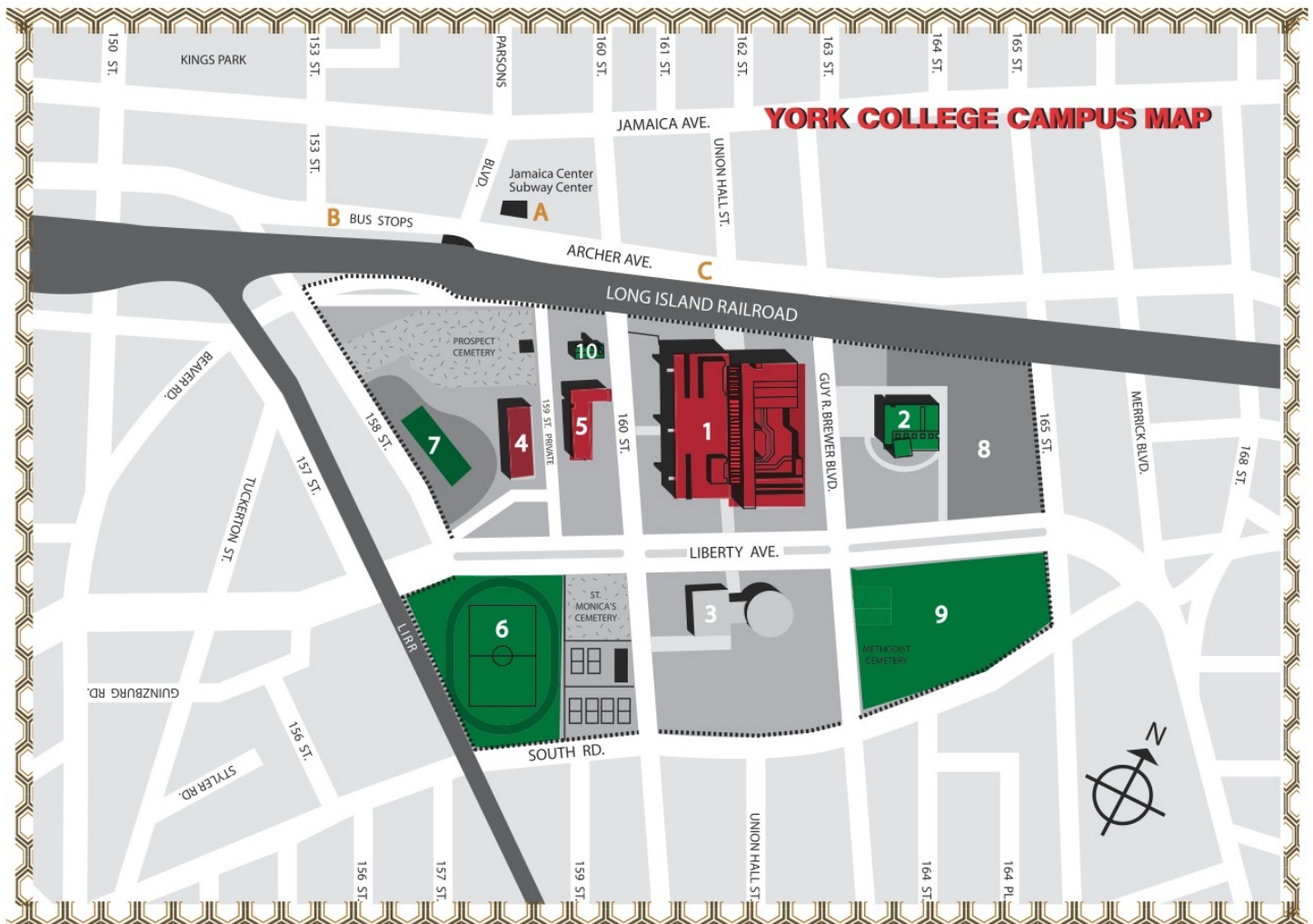
Ryley, Robert, Professor Emeritus of English

Scheiner, Peter, Professor Emeritus of Chemistry

Schlein, Jack, Professor Emeritus of Biology
Schuyler, Jane, Professor Emeritus of Fine Arts
Seittelman, Elizabeth, Professor Emerita of Classical Languages/Education
Shilling, Wynne, Professor Emeritus of Teacher Education
Southwell, Michael, Professor Emeritus of English
Stern, Daniel, Professor Emeritus of Psychology
Stevenson, Edward, Professor Emeritus of Psychology
Strassberg, Helen, Professor Emerita of Math

Walker Ray, Jacqueline, Professor Emeritus of Behavioral Sciences
Witter, Marie, Professor Emerita of Education
Wynne, J. Donald, Professor Emeritus of Behavioral Sciences
Young, Hope, Professor Emerita of Library
Young, Paul, Professor Emeritus of Chemistry
Zinar, Ruth, Professor Emerita of Education

Campus Map



1. Academic Core Building

94-20 Guy R. Brewer Boulevard

2. Performing Arts Center

94-45 Guy R. Brewer Boulevard

3. Health and Physical Education Building

160-02 Liberty Avenue

4. Science Building

5. Classroom Building

6. Athletic Field

7. FDA Building

8. East Parking Lot

9. Site for Future Development

10. Child Care Center

94-20 160th Street

PUBLIC TRANSPORTATION

A. Jamaica Center Subway Station

B. Jamaica Center Bus Terminal

C. Jamaica LIRR Station
(8 blocks West at Sutphin Boulevard)

Directions to York College

By Automobile

Take the Grand Central Parkway (GCP either east or west) to Parsons Boulevard Exit (16). From the west, make a right at the traffic light onto Parsons (opposite from the east). This route is marked by green York College signs. Follow Parsons till it merges with Archer Avenue. Long Island Railroad is directly in front of you. Make a left at the light onto Archer. Heading east on Archer, Guy R. Brewer Boulevard is the third light. Make a right onto Guy Brewer, the parking lot is on your left.

From JFK or LGA take the Van Wyck Expressway (I-678) to the Liberty Avenue Exit (4). From the north make a left onto Liberty to head east. This route is marked by green York College signs. Pass under the JFK Airtrain trestle heading east on Liberty. You will pass under the Long Island Railroad and York's FDA building on your left. Follow Liberty to Guy R. Brewer Boulevard and make a left. The parking lot is on your right.

Alternatively, you may also take the Long Island Expressway to exit 23 (Kissena Boulevard) and take that south. It will turn into Parsons Boulevard. Follow Parsons till it merges with Archer Avenue. Long Island Railroad is directly in front of you. Make a left at the light onto Archer. Heading east on Archer, Guy R. Brewer Boulevard is the third light. Make a right onto Guy Brewer, the parking lot will be on your left.

Mass Transit

From Brooklyn, Manhattan and Queens Subway E, J, & Z Trains terminate at Parsons-Archer/Jamaica Center. Exit your train at the easternmost exit (159th & Parsons Blvd) and walk one block east. Cross under Long Island Rail Road trestle (160th Street) and use the entrance on your left at the traffic light (look for the arch-shaped sculpture).

York College by Bus

Parsons/Archer - Jamaica Center is served by the following bus lines: Q4, QS, Q25/34, Q30, Q31, Q42, Q44, Q54, Q65, Q83, Q84, Q85, Q110, Q111, Q112, Q113, N4.

Long Island Rail Road

Take any train to Jamaica Station. Walk down the platform to street level. You can either take the subway at Sutphin Boulevard one stop to Parsons/Archer or walk (one stop). Walk east on Archer about 6 blocks to 160th street and make a right under the LIRR trestle, using the entrance on your left.

Jamaica AirTrain

Take any train to Jamaica Station. Walk down the platform to street level. You can either take the subway at Sutphin Boulevard (E, J; or Z) one stop to Parsons/ Archer or walk (one stop). Walk east on Archer about 6 blocks to 160th street and make a right under the LIRR trestle, using the entrance on your left.

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