

# St. John's College of Liberal Arts and Sciences

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## Objectives

St. John's College of Liberal Arts and Sciences realizes the objectives of the University at large by offering a liberal education in a Catholic atmosphere to students seeking higher learning either for its intrinsic values or as preparation for graduate study or professional careers.

## Academic Advisement

The responsibility for arranging an appropriate program and for meeting all degree requirements rests with the student. Academic advisement is offered to assist students in meeting this responsibility. Advisors give special attention to the student's academic progress and adjustment to college; they offer direction to the student regarding specific major/minor/Core Curriculum and/or degree requirements, appropriate use of electives and career goals/opportunities.

All freshmen should report to the Freshman Center for advisement. Undecided sophomores should consult the Dean's Office for assignment to an advisor. Declared sophomores, juniors and seniors should consult their respective departments to be assigned to an advisor.

## Programs of Study

St. John's College of Liberal Arts and Sciences offers programs leading to the degrees of Bachelor of Arts, Bachelor of Science, Bachelor of Fine Arts and Associate in Arts.

## Degrees and Majors Available

Curricula for these degrees and the major sequences required for each academic discipline appear on the following pages.

### Bachelor of Arts

Anthropology++  
Asian Studies\*+++  
Economics  
English\*  
Environmental Studies++  
French++  
Government and Politics\*  
History\*  
Italian++  
Mathematics\*  
Philosophy  
Psychology\*  
Public Administration and Public Service++  
Social Studies+  
Sociology\*  
Spanish\*+++  
Speech Communication Arts  
Speech-Language Pathology and Audiology  
Speech, Public Address++  
Theology\*

### Bachelor of Science

Biology\*++  
Chemistry\*++  
Computer Science+  
Environmental Studies++  
Mathematical Physics++  
Mathematics  
Physical Science++  
Physical Science (Engineering Track)++  
Physics++

### Bachelor of Fine Arts++

Fine Arts  
Graphic Design  
Illustration  
Photography

### Associate in Arts+

Broad-based introduction to the liberal arts.

*Notes:*

\*Combined B.A./M.A. programs available.

+Available on Staten Island campus only.

++Available on Queens campus only.

## Minors Available

Various departments offer programs leading to minor concentrations in their disciplines. Minors are not required for graduation but are chosen by students who wish to focus their core requirements and general electives in particular directions. The following guidelines for minors were determined by the Liberal Arts Faculty Council:

1. Students may choose any available minor program that is clearly differentiated from their major area of concentration.
2. Students may elect a minor after the completion of one semester of college.
3. Students must have the written permission of the department offering the minor.
4. Only one three-credit course may be used for both a major and a minor, provided that the minor sequence has at least 18 credits. For minors with fewer than 18 credits, no overlap is possible.
5. The Pass-Fail Option is not available in the fulfillment of minor requirements.
6. Students should schedule an interview at least once a year with their minor advisor.
7. The successful completion of a minor (with a minimum index of 2.0) will be noted on students' transcripts.
8. To complete a St. John's College minor at least 50% of the coursework must be completed in St. John's college courses. Previously completed courses may be applied but may not make up more than 50% of the total credit.

## Interdisciplinary Minors

### Africana Studies

15 semester hours: HIS 3400 (required) and four courses, representing at least three different disciplines, selected from the following: HIS 2300, 2301, 2302, 3410, 3711, 3712, 3850; ENG 3300, 3390, 3470; GOV 2480, 2750, 3680; ANT 2450; ART 1830; FRE 3820; MUS 1300; SOC 2450.

### Women's Studies

18 semester hours chosen from among these courses with no more than six hours in any one discipline: ART 1840 Sexism in Cinema and Television; CLS 1240 Women in the Ancient World; ENG 3260 Women Writers of the Nineteenth Century, ENG 3350 American Women Writers to 1900, ENG 3570 Women and Literature; HIS 3300 Women in Latin American History, HIS 3562 Women in Modern Europe, HIS 3731 Women in America I, HIS 3732 Women in America II; MFL 2121 Women Writers in France, PHI 2330 Introduction to Feminist Philosophy, PHI 3580 Major Women Philosophers of the 20th Century; SOC/ANT 2430 Women and Men in

Everyday Life, SOC/ANT 2440 Gender Identity in Popular Culture; THE 3240 Women and Theology.

### Multicultural and Multiethnic Studies

18 semester hours: ANT 1010, ANT 1050, SPE 1155/ANT 1150; additional nine semester hours from courses relating to culture/civilization, each course from a different region of the world: Asia, Africa, Latin America and the Caribbean, Middle East and Europe. 15 credits must be outside of the student's major. Courses applicable to the minor:

#### Asia:

ASC 2210, 2220, 1230, 1250, 1300, 1310, 3460, 3470, 1480, 1490; ASC 2500/HIS 2310, ASC 2510/HIS 2312; ASC 1790/THE 2830, ASC 1800/THE 2840; ASC 2710/GOV 3710, ASC 2720/GOV 3720; SOC/ANT 2410, ANT 2760; PHI 3590

#### Africa:

ENG 3330; HIS 2302; FRE 3820; GOV 3680

#### Latin America and the Caribbean:

GOV 2690, 2750, 2760; HIS 2331, 2332; FRE 3820; SPA 3100, 3560, 3700, 3730, 3740

#### Middle East:

GOV 3820; THE 2850, 3850

#### Europe:

GOV 2650, 2660; FRE 3090, 3100, 3300, 3550, 3560, 3600, 3630, 3650, 3670, 3690; GER 3090, 3100, 3550, 3560; HIS 3511, 3512, 3652, 3653; ITA 3090, 3100, 3550, 3560; RUS 3090, 3100; SPA 3090, 3550, 3610, 3770, 3780; MFL 1040; ENG 3540

## Specific Entrance Requirements

16 high school units (or appropriate score on GED):

English	4
Mathematics	2
History	1
Science	1
Foreign Language	2
Electives	6

*At least three electives must be from the academic grouping.*

In addition to these basic admission requirements for all St. John's College degree programs, the following should also be noted:

1. Students seeking admission to the B.F.A. degree program must submit a portfolio of original artwork. Upon submission of a completed admission application, students will be asked to contact the Department of Fine arts to schedule a portfolio review.

2. Students seeking to matriculate for a B.S. degree, a B.A. degree in Mathematics, or who are looking toward careers in Medicine, Dentistry, Osteopathy, or Optometry should include the following courses in their high school programs: Intermediate Algebra and Trigonometry (or 11th year Mathematics), advanced Algebra and Calculus, Physics and Chemistry and either French or German.

## Transfers

### External

The general University policy for students requesting transfer from other colleges or universities is stipulated in the Admission section of this bulletin. Students accepted by the College will receive an evaluation of their transfer record listing the courses applicable to their program of study at St. John's College. Only courses with grades of C or better will be considered for transfer. Transfer students must also schedule an interview to plan their academic program. Students applying to the Queens campus should call the Dean's Office at (718) 990-6271. Students applying to the Staten Island campus should call the Dean's Office at (718) 390-4300.

All external transfer applicants to St. John's College who have been awarded an A.A. or A.S. degree will fulfill the requirements for their baccalaureate in St. John's College after successfully completing a minimum of an additional 64 semester hours including, a) six semester hours in Philosophy and six semester hours in Theology; and b) the requirements for the selected major concentration. The remainder of the student's program is determined under the guidance of an assigned advisor.

### Internal

The general University policy for students requesting transfer from other colleges within the University is stipulated in the Admissions section of this bulletin. All applications are subject to the review and approval of the College Admissions Committee.

Upon entry to a St. John's College program of study, students must take all their remaining major courses within their major department.

*Note: Credit may be accepted for transfer if it was earned at a college/university that has been accredited by a regional accrediting organization (e.g., Middle States Association of Colleges and Schools) or if it was earned at a college/university-level institution of a type traditionally accredited by some other type of agency (e.g., in New York State, the Board of Regents). Students with credits from other countries will be asked to provide a World Educational Service evaluation before transfer credits are awarded.*

*Note: For all students, including both internal and external transfer students, a maximum of 18 credits of professional courses (education, business, computer science, pharmacy science, etc.) may be accepted to the degree. Students in an approved adolescence education program leading to teaching certification may take up to 36 credits of education courses toward their degree requirements.*

## Advanced Placement/CLEP

St. John's College awards Advanced Placement and college credit to those entering freshmen who earn a requisite score on the College Entrance Examination Board's Advanced Placement and/or CLEP tests. Placement and the number of college credits appropriate to the academic development of the qualified student are determined by the Dean's Office. An AP score of 3 or better is required for credit to be awarded. Chemistry uses a two-tiered system awarding one semester for a grade of 4 and two semesters for a grade of 5. Biology requires a score of 4 and awards two semesters of credit. Mathematics requires a score of 5 and awards either one (AB exam) or two (BC exam) semesters of credit. With respect to Advanced Placement credit for students who have earned an International Baccalaureate (IB) Programme Diploma, the following policies are in effect:

1. The College will consider only IB higher level courses for Advanced Placement credit. No credit will be awarded for standard level exams.
2. The College will evaluate IB higher level courses on a course-by-course basis.
3. Advanced Placement will be considered for higher level exam results with a grade of 5 or higher.
4. Students must submit official transcripts of exam results.
5. A maximum of 18 credits of Advanced Placement credit may be awarded for IB higher level courses.

Students who wish to take CLEP or other credit-by-test exams must receive prior approval from the Office of the Dean if such credit is to be applied to a St. John's college degree.

## Fresh Start Rule

An undergraduate student accepted for re-admission to St. John's College after an absence of five or more years from the University may ordinarily petition the Dean to recalculate the cumulative index of his/her previous residency. If the petition is approved, all courses taken remain on the permanent record with their original grades. Only grades of A, A-, B+, B, B-, C+, or C are counted for credit. If the petition is approved, the student resumes his/her academic program with no

cumulative or major index, and thereafter is subject to the conditions of warning, probation and dismissal which govern all students. The student must fulfill all degree requirements in effect at the time of readmission.

Under the provisions of this rule, a student must complete a minimum of 30 credit hours, which shall include advanced major field courses typically taken in the senior year. All courses ever taken on the college level are used in the calculation of the index required for graduation with honors.

This rule applies to St. John's College only. A student who is re-admitted to the college under this rule and subsequently transfers to another undergraduate unit of St. John's University becomes subject to the regulations of that college. Other undergraduate units may not permit index recalculation.

## External Language Credits and Requirements

The Language and Literatures Department does not accept AP, CLEP or credit in the International Baccalaureate in lieu of the St. John's College two-semester language requirement. The department may accept up to six credits of AP or credit in the International Baccalaureate that is deemed appropriate for major or minor sequences. Up to six credits from CLEP may be counted towards a minor sequence but may not be applied to a major sequence. All CLEP credit and exams must be completed before a student registers for language courses at St. John's University.

## Academic Standing

A full-time student's program may range from a minimum of 12 to a maximum of 18 hours (credits) per semester. Freshman programs are usually 15 semester hours (credits).

A student who receives a grade of F for a required course must take the course again. The new grade does not replace the F that was previously earned, but is averaged into the student's cumulative grade point average.

To remain in good academic standing, a student must maintain a minimum cumulative grade point average of 2.0 overall and in the academic concentration. A student who fails to meet these standards is placed on academic probation and limited to a program of 12 credits (four courses) maximum until he/she attains satisfactory academic standing. The minimum acceptable performance for continued study at St. John's College is a cumulative index of 1.5 at the end of the first year, 1.75 at the end of the second year and 1.9 at the end of the third year.

A cumulative and major grade point average of 2.0 is required for graduation.

## Attendance Policy

Regular and prompt attendance is expected of all students and is an individual student's responsibility. Absence from class does not excuse a student from any work missed.

There is no penalty for absence from class considered in itself. Students are, however, responsible for all announced exams and for submitting all assignments given in class at the proper time. Ignorance of such exams and assignments is not an acceptable excuse for failure to complete them. Individual faculty members determine if a student is to be given a make-up examination as stated within their course outlines and requirements.

Several types of courses, such as foreign language courses, English composition courses, science laboratories, language laboratories, art studios and speech performance-oriented courses are not covered under this general policy and do have specific attendance requirements. Students are responsible for following the attendance requirements of any course for which they are enrolled.

## Pass-Fail Option

The Pass-Fail Option has been instituted to encourage students to enroll in more challenging courses outside their major area of concentration without affecting their grade point average.

This option is available to students with sophomore status who have completed a minimum of 25 credits, and whose current grade point average is at least 2.0. The option is limited to one course per semester, with the total during the three years, including summer sessions, not to exceed six courses.

The Pass-Fail Option may not be used in connection with the students' major/minor requirements (including ancillary courses required for the students' degree). This option does not affect the student's grade point index, although a "Pass" is credited toward the degree.

Application for the Pass-Fail Option must be made in the St. Johns College Dean's Office. In any given semester, a student may elect the Pass-Fail Option up to and including the last date designated for withdrawal from class without academic penalty. The Pass-Fail Option is also reversible during the same time period.

## Make-up Examinations

St. John's College adheres to the general University policies regarding examinations as stated in the Academic Information and Regulations section of this bulletin.

Tests, term papers and assignments are given at the discretion of the instructor. Credit is not given for a course unless all assignments have been satisfactorily completed. All work must be submitted no later than the last meeting of the course.

St. John's College does not give "Incomplete" grades to undergraduate

students. At their discretion, faculty may issue a special grade of UW (Unofficial Withdrawal) to a student who has stopped attending and has not completed a substantial amount of the assigned work. Faculty may also issue a final grade of F to any student who, in their judgment, has not satisfactorily completed the stated course requirements in an acceptable manner.

A special grade of ABF (Absent from Final) may be given to any student who has completed all course requirements but who misses the final examination because of circumstances that are typically beyond the control of the student. Any student receiving the ABF must submit an explanation, together with substantiating evidence, to his/her Dean's office immediately. The Academic Dean of the college in which the student is enrolled then determines if the student is permitted to take a make-up exam. If permission is granted a make-up will be scheduled and a fee of \$40 must be paid to the Bursar prior to the scheduled make-up date. The make-up fee may be waived at the discretion of the Dean. Make-ups must be completed in the most immediate time frame that is reasonable for the circumstances of the case. In no case shall the scheduled make-up be extended past the end of the following term.

## Graduate-Level Courses

Graduate courses are open to qualified students with the approval of the St. John's College Dean and the Chair of the department in which the student wishes to take courses; students who have already been accepted as degree candidates in the B.A./M.A. or B.S./M.S. programs must register with the approval of their Department advisor and the Graduate Division.

## Honor Societies

The Skull and Circle Honor Society (Q) and the Lambda Kappa Phi Honor Society (SI) annually select members from those St. John's College students who have combined outstanding scholarship, a high degree of personal integrity, and a deep devotion to St. John's as manifested in significant contributions to institutional activities. For additional qualification information, students should consult their campus Dean's Office.

In addition, membership in a number of honor societies is available for students who demonstrate outstanding scholarship in the major areas indicated:

**Alpha Kappa Delta:** Sociology

**Alpha Psi Omega:** Theatre

**Delta Sigma Rho-Tau Kappa Alpha:**

Forensics

**Epsilon Delta:** Speech Communication Arts and Public Address

**Gamma Kappa Alpha:** Italian

Omicron Delta Epsilon: Economics  
 Phi Alpha Theta: History  
 Pi Delta Phi: French  
 Pi Mu Epsilon: Mathematics  
 Psi Chi: Psychology  
**Roger Bacon:** Biology, Chemistry,  
 Mathematics, Physics, Psychology or  
 Environmental Studies  
**Beta Lambda:** National Slavic Honor Society  
**Sigma Alpha Eta:** Speech-Language  
 Pathology and Audiology  
**Sigma Delta Pi:** Spanish  
**Sigma Pi Sigma:** Physics  
**Sigma Tau Delta:** English  
**Theta Alpha Kappa:** Theology

## Academic Awards, Distinctions and Prizes

Students may be awarded academic distinction for outstanding scholastic performance by being named to the Dean's Honor List. To qualify, a student must average 3.4 (minimum of 12 credits per semester) for consecutive fall and spring semesters in any academic year.

Annually, a Gold Key for academic excellence is awarded to a qualifying senior in each department of St. John's College. The recipient of each award is selected by the Dean of the College in consultation with the department, on the basis of the student's outstanding scholastic achievement in his/her major field, the student's overall academic performance and the recommendations of their department's faculty. Silver Keys are also awarded to outstanding juniors in each major department, based on similar criteria.

The **Carlton Boxhill Award** is presented to a graduating senior who has demonstrated excellence in academic achievement and University and community activities.

The **Dr. Gerald E. Fitzgerald Award** is presented to outstanding graduates in the government and politics, the public administration and the public service majors.

The **Charles Lacaillade Award** is presented to two biological science majors with strong academic credentials and research experience.

The **Edward J. Miranda Award** is awarded to an outstanding mathematics major who has demonstrated interest and dedication to the study of mathematics.

The **Reverend John B. Murray Award** is presented to a graduating psychology major who has demonstrated academic excellence, research activity and/or service to the University or greater community.

## Special Programs

### Combined Degree Programs

B.A./M.A. in Asian Studies  
 B.S./M.S. in Biology  
 B.S./M.S. in Chemistry  
 B.A./M.A. in English  
 B.A./M.A. in Government and Politics  
 B.A./M.A. in History  
 B.A./M.A. in Mathematics  
 B.A./M.A. in Psychology  
 B.A./M.A. in Sociology  
 B.A./M.A. in Spanish  
 B.A./M.A. in Theology

These integrated programs permit qualified students to earn a bachelor's degree in four years and master's degree in five years instead of the usual five- and-a-half or six years required to obtain the two degrees.

Each program is designed to enable students to complete the University and departmental requirements of 126 credits for the bachelor's in four years. This insures receipt of the bachelor's degree if the student decides not to continue for the fifth year. Should the student decide not to continue after the fourth year, he/she can reapply to a master's program at a later date.

To be considered for a combined degree program applicants, must have completed the sophomore year with at least a 3.0 overall index (including the Core requirements) and a 3.5 index in 12 credits applicable to the major. Incoming freshmen may apply for provisional admission to one of the bachelor's/master's programs. Students should consult the St. John's College Dean's Office for additional qualification/application information.

### B.A./and B.S./J.D.

This program permits exceptionally qualified students with well-defined professional goals to complete their academic training in six years, earning a B.A. degree from St. John's College and a Juris Doctorate degree from St. John's School of Law. Interested students must contact the Pre-Law Advisor in the St. John's College Dean's Office before the start of their junior year.

### B.S./D.D.S. and B.S./O.D.

These highly competitive accelerated programs permit qualified students to earn a B.S. in biology from St. John's and a D.D.S. from Columbia University School of Dental and Oral Medicine, or an O.D. from SUNY Optometry, in seven years. These programs are only open to incoming freshman with superior credentials. *Admission interviews are required. All science courses for these combined degree programs are conducted on the Queens campus.*

## Evening and Weekend Degree Programs

In recognition of the special needs and obligations of students who are full-time members of the workforce, St. John's College offers several evening and weekend undergraduate degree programs on the Staten Island campus. Evening and weekend degree programs offer B.A. degrees in English and psychology, and an Associate in Arts (A.A.) degree program. Class times are arranged in consideration of full-time employment schedules. For additional information, interested students should contact the Staten Island Dean's Office.

## Independent Study

Qualified students may pursue independent study in their major field or a field related to their concentration. Directed and supervised by faculty members, students may study selected topics and/or undertake special projects not usually available in the course offerings curriculum. Interested students should consult the bulletin section relevant to their major, and contact the department chairperson.

## Internships

St. John's College offers supervised practical training through fieldwork and/or placement in public and private agencies/institutions. In some cases, these credit-bearing internships may be taken by qualified non-majors as well as majors. Program qualifications and application procedures vary. Interested students should consult their campus Dean's Office for additional information.

## Honors Program

The Honors Program is a Core-based, liberal arts program open to a qualified undergraduate students. Smaller classes, individualized faculty attention, innovative approaches to subject matter, and the highly challenging/demanding nature of these courses provide students the opportunity for group projects, independent study/research, community involvement, intensive reading/writing, and exposure to colloquia.

Honors courses are listed in the Honors section of this bulletin. For additional qualification/application information, Queens campus students should contact Fr. Michael Whalen, Director of the Queens Honors Program, at (718) 990-7554; Staten Island campus students should contact Dr. John Brennan, Director of the Staten Island Honors Program, at (718) 390-4540.

**Honors Certificates** are awarded to those students who have completed the Honors Program requirements. Students should consult the Honors Program Director on their campus for additional information.

## Engineering and Physical Science Dual-Degree

The Engineering Program is a five-year curriculum offered jointly by St. John's University and Manhattan College. The first three years of pre-engineering studies are completed at St. John's College. Science courses required for this degree are offered on the Queens campus only. Students attaining a minimum quality point index of 2.5 and other requirements are then admitted to Manhattan College for the last two years of engineering studies in any of the undergraduate curricula. Both a B.S. degree from St. John's and a B.E. degree from Manhattan College are awarded when the student successfully completes the program. For additional program information, consult the Physics section of this bulletin.

## Three-Year Baccalaureate Program

The highly selective Three-Year Baccalaureate Program leads to the traditional bachelor's degree in three rather than four years. Admitted students complete 96 credits for their degree. No summer study is normally needed. This accelerated program is available to all qualified B.A./B.S. students, but is not open to students pursuing a B.F.A. degree. Mathematics and Science students must consult the Dean to discuss special program needs. All interested students should consult their campus Dean's Office prior to applying to the University.

## Institute of English as a Second Language

For program information, consult the Languages and Literatures Department section of this bulletin.

## The Online Program

The Online Program offers flexibility in work and study schedules and reduces the need for traveling. This can be liberating for working students, parents of young children and commuters. Online courses are open to all St. John's University students with World Wide Web and e-mail accessibility. Students wishing to participate from home must own a personal computer. For additional information regarding online courses, consult the Chair of the department.

## Pre-Professional Advisory Programs

### Pre-Law Advisory Program

Most law schools do not require specific subjects for admission, therefore pre-law students may choose any undergraduate major. While students assume responsibility for their choice of academic programs, the Pre-Law Advisory Program provides students with information and advice on courses that are most beneficial in preparing for the Law School Admission Test and eventual entrance into legal studies. Interested students should contact their campus Dean's Office.

### Arts and Sciences Pre-M.B.A. Program

The Pre-M.B.A. Program, which includes professional business courses, gives St. John's College undergraduate students the opportunity to fulfill the course requirements for entrance into the Graduate Division of the Peter J. Tobin College of Business. After completing the bachelor's degree program requirements (with an average of at least 3.0), students may apply for direct admission into the M.B.A. program. For specific program requirements/application procedures, students should contact their campus Dean's Office. *Note: The Pre-M.B.A. Program is not applicable to the M.B.A. in Accounting.*

### Pre-Health Studies/Pre-Health Advisory Committee

Pre-Health Studies are designed to provide background for entry to medical or health professional schools. Basic curriculum requirements for acceptance to the Pre-Health Studies program include:  
Biology (one year)  
Chemistry (two years)  
English (one year)  
Mathematics (one year)  
Physics (one year)

The B.S. degree provides a more thorough training in science, but the above courses in conjunction with any program permit liberal arts students not only to meet minimum requirements for admission to most health profession schools but also to develop broad cultural backgrounds.

Students interested in the medical or health sciences are urged to register with the Pre-Health Advisory Committee, which informs students of requirements for admission to medical, dental and osteopathic colleges, and helps them develop the personal qualities necessary for these medical professions. The committee prepares students for entrance into professional schools by assisting with interview skills, holding on-campus interviews and inviting guest speakers from the various

graduate health professional schools. The committee also recommends qualified students to medical, dental, optometry, osteopathic, podiatric and veterinary colleges to which they apply.

*Note: All Science courses requiring laboratory corequisites are held on the Queens campus. There is a \$5 charge to send out any Pre-Health recommendation packages after the twelfth package. For additional information, interested students should contact Dr. Jay Zimmerman, Coordinator, Pre-Health Professions Advisory Committee, St. Albert Hall (Q).*

## Preparation for Theological Studies

Students who intend to become candidates for the priesthood are encouraged to pursue a sound liberal arts program "which has a special value as a preparation for the study of theology." They may choose to pursue a B.A. or B.S. degree, although Philosophy is considered the most appropriate area of concentration. The choice of another major is to be evaluated according to individual circumstances and needs.

Certain active on-campus organizations can be of assistance in providing pastoral experience with the poor and the alienated, and in studying questions of peace and justice. Spiritual advisors are available for discernment and direction.

A certificate program in Philosophical and Theological Studies is available for seminarians who have already completed a bachelor's degree.

## Course offerings note:

*All course offerings vary per semester and are subject to change.*

## Bachelor of Arts Core Curriculum and Major Requirements

### University Common Core Courses:

Discover New York	3
English 1000C	3
English 1100C	3
History 1000C	3
Science 1000C	3
Philosophy 1000C	3
Philosophy 3000C	3
Theology 1000C	3
Speech 1000C	3
	<b>27 credits</b>

### University Distributed Core Courses:

Foreign Language	6
Mathematics 1000C	3
Philosophy 2200C	3
Theology 2000 level	3
Theology 3000 level	3
Social Sciences	3
	<b>21 credits</b>

**St. John's Core Courses:**

Art or Music and Core Elective	3
Core Elective	3
Core Elective	3
Core Elective	3
(in three different fields outside of major area)	12 credits

**Major Requirements:**

(see departmental pages  
for specific details) 33 to 49 credits

General Electives: 17 to 33 credits

Graduation total: 126 credits minimum

## Bachelor of Science Core Curriculum and Major Requirements

**University Common Core Courses:**

Discover New York	3
English 1000C	3
English 1100C	3
History 1000C	3
Philosophy 1000C	3
Philosophy 3000C	3
Theology 1000C	3
Speech 1000C	3

24 credits

**University Distributed Core Courses:**

Foreign Language	6
Philosophy 2200C	3
Theology 2000 level	3
Theology 3000 level	3
Social Sciences	3

18 credits

**St. John's Core Courses:**

Art or Music and Core Elective	3
Core Elective	3
Core Elective	3
(in two different fields outside of math/science)	9 credits

**Major Requirements:**

(see departmental pages for specific details)

33 to 49 credits

**Additional Math or Science Requirements****Specific to Each Major Field:**

Biology	36 credits
Chemistry	16 credits
Env. Studies	8 credits
Mathematics	8 credits
Physics	8–16 credits

**Major Requirements:**

Biology	32 credits
Chemistry	45–48 credits
Env. Studies	50 credits
Mathematics	55 credits
Physics	23–37 credits

General Electives: 7 to 23 credits

Graduation total: 126 credits minimum

## Bachelor of Fine Arts Core Curriculum and Major Requirements

**University Common Core Courses:**

Discover New York	3
English 1000C	3
English 1100C	3
History 1000C	3
Science 1000C	3
Philosophy 1000C	3
Philosophy 3000C	3
Theology 1000C	3
Speech 1000C	3

27 credits

**University Distributed Core Courses:**

Foreign Language	6
Mathematics 1000C	3
Philosophy 2200C	3
Theology 2000 level	3
Theology 3000 level	3
Social Sciences	3

21 credits

**St. John's Core Courses:**

None

**Fine Arts Major Requirements:**

Fine Arts	84 credits
Graphic Design	84 credits
Illustration	84 credits
Photography	84 credits

(see fine arts departmental pages for specific  
requirements regarding portfolios and  
internships)

**General Electives:**

None

Graduation total: 132 credits minimum

## Art/Fine Arts (ART)

### B.F.A. Major Sequences

**Fine Arts**

84 semester hours including: ART 1110, 2120, 1130, 1200, 1210, 2220, 2230, 2310, 2320, 1510, 2520, 1710, 1720, 2750, 2790; one course from ART 3240, 3330, 2530; 4909 (nine-credit internship), or 4125 (nine-credit Creative Thesis); plus 27 elective credits from the approved ART elective list as recommended by department advisor.

**Graphic Design**

84 semester hours including: ART 1110, 2120, 1130, 1200, 2220, 2310, 1510, 1710, 1720, 2750, 1105, 1115, 2115, 2125, 2145, 3125, 3110, 3115, 3105, 3350; one course from ART 2310, 2320, 3330, 3340; 4909 (nine-credit internship) or 4125 (nine-credit Creative Thesis), plus 12 elective credits from the approved ART electives list as recommended by department advisor.

**Illustration**

84 semester hours including: ART 1110, 1130, 1200, 1210, 2220, 2230, 2310, 1510, 1710, 1720, 2750, 1105, 1270, 2280, 3115, 3110, 2145; 4909 (nine-credit internship) or 4125 (nine-credit Creative Thesis), plus 24 elective credits from the approved ART electives list as recommended by department advisor.

**Photography**

84 semester hours including: ART 1110, 1610, 1620, 1660, 1105, 1630; 12 credits in ART electives; six credits in Art History electives; 30 credits in Photography at the International Center of Photography (ICP) (one academic year); 4909 (nine-credit internship) or 4125 (nine-credit Creative Thesis) plus nine elective credits from the approved ART electives list as recommended by department advisor.

### Minor Sequences

**Art**

21 semester hours: ART 1110, 1130, 1200, and four courses from approved ART electives list in consultation with department advisor.

**Art History**

21 semester hours: ART 1710, 1720, 2750. Three ART history elective courses (for a total of 9 credits) selected from ART 1660, 1770, 2740, 2790, 1730, 2760, 2770, 1790, 1020, 2730, or 1780. One studio course selected from: ART 1110, 1610, 2120, 1200, 2310, 2320, 1410, 1510, 1080, 1060, 1070, 2250.

**Graphic Design Minor**

21 semester hours. ART 1105, 1115, 2125, 3115, 2145 and one course selected from: ART 1630, 1610, 3640, 1080, and one courses selected from, ART 1110, 1130, 3350, 1510, 2115, 2130, 1135, 2135, 3120, 1670, 1370, 2250.

**Photography**

21 semester hours: ART 1610 or 1080, 1620, 2650, 1660, 1630 and two courses selected from ART 1110, 1105, 1115, 3640, 1510, 1810, 1820, 1135, 2135, 1670, 1790.

**Music**

18 semester hours including: MUS 1010, 1020, 1210; any three credits from piano/voice/organ, and two elective courses from MUS 1070, 1080, 1230, 1240, 1250, 1260, 1300, 2020.

Note: Approved ART electives list is available upon request in the department office.

**Musical Theatre**

18 semester hours including: nine semester hours in SPE 1510 or 1530, 1540, MUS 1260; three semester hours in Voice (MUS 1620,\* MUS 1630); six semester hours chosen from among SPE 1580, SPE 2540, SPE 1520, SPE 1590, MUS 1070, MUS 1230, MUS 1240.

\* MUS 1620 may be repeated twice.

## Art/Fine Arts Course Offerings (ART)

### Non-Major Art Courses

#### 1000C Creativity and the Arts

A study of creativity as it is manifested in the fine arts: the visual arts, music, theatre and dance. Museum, theatre, concert visits required. *Credit: 3 semester hours. Studio fee, \$30.*

#### 1010 Craft as Visual Art

An introduction to basic craft skills for the general student. Projects may include simple printmaking and book construction, puppet making, fiber techniques and sculpture. Classroom application of these skills is emphasized. Studio. *Credits: 3 semester hours. Studio fee, \$30.*

#### 1020 Art in New York (Mini-Course)

An on-site survey of New York City's galleries and museums. Students visit major New York art institutions and view their collections. *Credit: 3 semester hours. Museum fee, \$30.*

#### 1030 Understanding Art

An overview of art appreciation and history for the general student. Students study selected periods of art while learning the language of vision. Museum visits required. *Credit: 3 semester hours.*

#### 1040 Creative Experiments

Explorations in creativity in the visual arts for the non-major. Drawing, collage, simple printmaking, clay and other two-and three-dimensional materials are used, at the discretion of the instructor, to develop the student's creative potential. *Credit: 3 semester hours. Studio fee, \$30.*

#### 1050 Drawing Experiments

A course in creativity and the language of drawing for the non-major. Line, volume, perspective, space composition, proportion, value and movement are explored, as students confront the outer and inner worlds through the materials of drawing. *Credit: 3 semester hours. Studio fee, \$30.*

#### 1060 Watercolor Workshop (Mini-Course)

An intensive course in the watercolor medium for the non-major. Projects are structured to teach students visual sensitivity and creativity. *Credit: 3 semester hours. Studio fee, \$30.*

#### 1070 Printmaking Workshop (Mini-Course)

An introduction to woodcut, etching and lithography for the non-major. Projects are structured to teach students visual sensitivity and creativity. *Credit: 3 semester hours. Studio fee, \$30.*

#### 1080 Photography Workshop (Mini-Course)

A workshop course designed to develop a student's ability with the use of the camera as a tool for self expression. The fundamentals of black and white photography and its creative uses are explored. Applicable to major/minor sequences with written permission of the chairs. *35 mm camera required. Credit: 3 semester hours. Studio fee, \$30.*

#### 1090 Jewelry Design

Principles of two-and three-dimensional design applied to jewelry. Students design ornaments in a variety of materials with emphasis given to cutting, hammering, soldering, braising and wax-casting of copper and brass. Gallery and museum visits required. *Credit: 3 semester hours. Studio fee, \$30.*

### Major Art Courses

#### 1105 Introduction to Graphic Design I

A studio introduction to the fundamentals of visual communication. Course includes formal application of design principles as well as exposure to tools, computer technology, methodology and visual analysis involved in the nature of message design. *Credit: 3 semester hours. Studio fee, \$30.*

#### 1110 Foundation Design

A basic course in the elements of design and the principles of composition, pictorial space and structure as they relate to imagemaking. *Credit: 3 semester hours. Studio fee, \$30.*

#### 1115 Introduction to Graphic Design II

Continued exploration and exposure to visual communication problems and principles. Experimental opportunities with symbol design, form and progression problems, typography and analysis of the visual language of representation and interpretation. *Credit: 3 semester hours. Studio fee, \$30.*

#### 1130 Color: Theory and Application

An exploration of the properties and perception of color and its function in the effective manipulation of visual communication. *Credit: 3 semester hours. Studio fee, \$30.*

#### 1135 Computer Graphics

An introductory course exploring the history of computers, hardware, software evolution and the use of computers in the visual arts as a design tool. For the non-major. Emphasis is placed on the use of computers to solve design problems. *Credit: 3 semester hours. Studio fee, \$30.*

#### 1200 Introduction to Drawing I

Black and white drawing materials, such as pencil, pen, brush and ink, conte, charcoal and chalks, are explored. Students are guided by problems in direct observation, linear and elliptical perspective, space, composition, modelling, and line quality. *Credit: 3 semester hours. Studio fee, \$30.*

#### 1210 Introduction to Drawing II

New drawing materials are introduced as students work toward exploring the visual world with increasing technical facility, emotional expressiveness and imagination. *Credit: 3 semester hours. Studio fee, \$30.*

#### 1250 Italian Sketchbook (Abroad)

A studio course in drawing and watercolor techniques, using the architecture, landscape and people of Italy as subject. *Credit: 3 semester hours.*

#### 1270 Illustration I

An introductory illustration course that provides students with a basic overview of visual perception; using materials, techniques and the creative application of the principles of art to illustrative problem solving. *Credit: 3 semester hours. Studio fee, \$30.*

#### 1280 Digital Illustration

An introduction to the central features and functions of Adobe Illustrator, the industry's leading vector-based application that is currently used as an illustration, technical drawing, animation and vector paint program. *Credit: 3 semester hours. Studio fee \$30.*

#### 1290 Introduction to Cartooning

A studio course in cartoon and caricature. Students receive experience in the use of materials and techniques in their creative application. *Credit: 3 semester hours. Studio fee, \$30.*

#### 1370 Aqueous Media in Paris

An introduction to water-based painting using the architecture, people and landscape of France as subject matter. Studio. *Credit: 3 semester hours.*

#### 1510 Relief and Intaglio Printmaking (Printmaking I)

An introductory course to the basic printmaking media. Fundamentals of relief printmaking are explored through the woodcut and linoleum cut. *Credit: 3 semester hours. Studio fee, \$30.*

#### 1610 Photography I

An introduction to the camera and the fundamentals of black and white photography. Emphasis is on developing self-expression through creative photographic assignments and critiques. *35 mm camera required (preferably SLR). Credit: 3 semester hours. Studio fee, \$30.*

#### 1620 Photography II

*Prerequisite: ART 1610 or 1080.* A continuation of ART 1610. Developing, printing and enlarging techniques are refined and applied to the specific needs of students. *35 mm camera required (preferably SLR). Credit: 3 semester hours. Studio fee, \$30.*

#### 1630 Digital Photography

An introduction to digital photography including an in-depth look at the central features and functions of Adobe Photoshop. *Credit: 3 semester hours. Studio fee, \$30.*

#### 1660 History of Photography

An historical survey of the evolution of photography from its beginnings to the present time. *Credit: 3 semester hours.*

#### 1670 Photography in Paris (Abroad)

An intimate photographic journey through Paris as seen through the viewfinder. Art and techniques of photography applied to an aesthetic visual study of people, culture and landscape. *35 mm camera required (preferably SLR). Credit: 3 semester hours.*

#### 1710; 1720 The History of Art I; II

A historical survey of the painting, sculpture, architecture, and (to some extent) crafts of Western man from prehistoric to contemporary times. *Credit: 3 semester hours.*

#### 1730 Pre-Columbian Art

A survey of the art history of selected Pre-Columbian civilizations of the Americas. *Credit: 3 semester hours.*

#### 1740 Modern Architecture

The history of architecture and urban planning predominantly in the United States and Europe from the mid-19th century to the present. The development of architecture in relation to

political, economic, and social histories will be addressed. *Credits: 3 semester hours.*

### **1770 Classical Archaeology**

The history of archaeology and its contribution to our knowledge about the ancient world, its history and civilization. *Credit: 3 semester hours.*

### **1780 The Art of the Renaissance in Italy (Abroad, Mini-Course)**

A European study of the visual arts of the Renaissance in Italy. *This course may be substituted for any course in the ART history sequence except ART 2750.* *Credit: 3 semester hours.*

### **1785 Italian Renaissance Art and Literature**

This course is an investigation of classical humanism in Italian literature and art covering the period that spans roughly 1350–1550 (primarily Abroad). *Credits: 3 semester hours.*

### **1790 Survey of Art and Architecture in Italy (Abroad)**

A comprehensive survey course in the history of the visual arts and architecture on the Italian peninsula from ancient times to the modern era. *Credit: 3 semester hours.*

### **1795 The City of Rome (Abroad)**

A study of the city of Rome through its art, historical periods, literary and cultural movements, and physical structure. *Credits: 3 semester hours.*

### **1810 The Art of Film I**

This course introduces the student to the study of film as an academic discipline by defining the basic components of film practice, their historical developments and their specific applications in conveying meaning and ideological premises. *Credit: 3 semester hours. Fee, \$30.*

### **1820 The Art of Film II**

This comparative study of the classical Hollywood cinema and modes of cinematic representation in other national cinemas and the avant-garde analyzes the cinema's relationship to culture's dominant ideological formations. *Credit: 3 semester hours. Fee, \$30.*

### **1830 Racism in Film**

Examines some of the causes and effects of racism within culture and analyzes how films organize their formal properties into strategies that promote and/or reinforce racist values and belief systems. *Credit: 3 semester hours. Fee, \$30.*

### **1840 Sexism in Cinema and Television**

This course analyzes the manner in which sexism functions as an ideological institution within American culture in and through cinema and television. *Credit: 3 semester hours. Fee, \$30.*

### **2115 Graphic Production**

Continued exploration and exposure to the craftsmanship, terminology and technology necessary in the production of print media. Emphasis is on producing projects, from concept to camera-ready art, using the computer programs relevant to the field. *Credit: 3 semester hours. Studio fee, \$30.*

### **2120 Three-Dimensional Design**

The principles of design as applied to three-dimensional structural form. Additive, subtractive, constructive and kinesthetic

processes are explored. *Credit: 3 semester hours. Studio fee, \$30.*

### **2125 Typography**

Exposure to the study of typography as visual communication tool. Experimental studies and related problems involving the fundamentals of type, theory, application, technology and history. *Credit: 3 semester hours. Studio fee, \$30.*

### **2130 Motion Graphics**

The fundamentals of design in motion. Using video, still imagery and sound, students will study techniques of dubbing, assembling and inserting visuals to create graphics for television, the Web and cinema title design. Studio. *Credits: 3 semester hours. Studio fee, \$30.*

### **2135 Advanced Computer Graphics**

An advanced course in computer graphics provides the opportunity to produce portfolio quality computer-generated graphics as it applies to print and television media using the Macintosh and IBM Graphic Workstations. For the non-major. *Credit: 3 semester hours. Studio fee, \$30.*

### **2145 History of Visual Communications**

A comprehensive overview of the history of humanity's effort to give visual form to ideas and concepts, to store knowledge and give order and clarity to information. *Credit: 3 semester hours.*

### **2220 Anatomy and Figure Drawing I**

The human skeleton and musculature are studied while drawing from the model. Basic proportions and movement of the figure in space are emphasized. *Credit: 3 semester hours. Studio fee, \$30.*

### **2230 Anatomy and Figure Drawing II**

The figure is studied in detail and used as the basis for experiments in space composition. Students work for emotional expressiveness as well as fluent accuracy and technical facility. *Credit: 3 semester hours. Studio fee, \$30.*

### **2240 Drawing for Illustration**

A course designed to the development and application of drawing skills relative to creative illustration problems. Studio. *Credit: 3 semester hours. Studio fee, \$30.*

### **2250 Drawing and Design in Rome (Abroad)**

An exploration of the rich artistic stimulus of Rome as the basis for understanding the fundamental structures of visual organization. On-site drawing- and studio-based projects. Side trips to Pompeii, Paestum, Siena, Assisi and Florence. *Credit: 3 semester hours.*

### **2280 Illustration II**

A course in advanced illustration that expands upon concepts and techniques acquired in ART 1270. Emphasis on specialized application of illustrative skills: medical, technical, product, anthropological, natural science illustration and illustration as journalism. *Credit: 3 semester hours. Studio fee, \$30.*

### **2310 Aqueous Media (Painting I)**

An introduction to painting with an emphasis on developing sensibility and knowledge of color theory in its application to the painting process. *Credit: 3 semester hours. Studio fee, \$30.*

### **2320 Composition in Painting (Painting II)**

While concerned with compositional issues, this course is a concentrated investigation aimed at painting the figure in a representational mode. *Credit: 3 semester hours. Studio fee, \$30.*

### **2340 Painting in Italy (Abroad)**

An Introduction to the medium of painting with an emphasis on developing a knowledge of color theory and its application to the painting process. Painting on-site with the ancient city of Rome and the surrounding countryside as a setting, focus is on developing structure in composition and sensitivity to light and atmosphere. Lectures and museum visits help students understand the culture context of the work of Italian ancients, modernist and European and American painters in Italy. *Credit: 3 semester hours.*

### **2430 Figurative Sculpture**

An introduction to the principles and practices of figure sculpture. Studio. *Credits: 3 semester hours. Studio fee \$30*

### **2520 Printmaking II**

*Prerequisite: Art 1510* A course designed to explore the various Intaglio printmaking processes in more depth. *Credit: 3 semester hours. Studio fee, \$30.*

### **2530 Printmaking III**

*Prerequisite: Art 1510* A course in the basic processes of metal plate and stone lithography. Surface preparation, various methods of image-making, etching procedures and printing are studied. *Credit: 3 semester hours. Studio fee, \$30.*

### **2650 Documentary Photography**

Documentary approaches to photographing people, places and events; creation of photographic images that articulate a vision of social and interpersonal issues. *Service-Learning component. 35mm camera required (preferably SLR).* *Credit: 3 semester hours. Studio fee, \$30.*

### **2740 European Art–19th Century**

The course begins with an examination of Neo-Classicism as the harbinger of the Romantic Rebellion in the late 18th century before moving on to a survey of the painting, sculpture and architecture of the 1800s ending with Post-Impressionism. *Credit: 3 semester hours.*

### **2750 Twentieth-Century Art**

A review of the Post-Impressionism and a survey of the painting, sculpture, architecture and newer media that thrived in the twentieth century. *Credit: 3 semester hours.*

### **2760 Latin American Art: Encounters Between Two Worlds**

Using visual culture as a tool for assessment, this course will examine the way in which encounters between different groups of peoples with their respective belief systems have complicated a sense of unity in Latin American art from colonial times to the present. *Credit: 3 semester hours.*

### **2770 Women in the Arts**

This course offers the student a survey of women in art history from antiquity to the present and will address areas related to the creation, collection and study of women and works of art. *Credit: 3 semester hours.*

### **2790 Contemporary Art and Culture, 1945–Present**

Examination of avant-garde issues in visual art. Artistic, theoretical and historical concerns are researched to discuss international developments in contemporary art and art criticism. *Gallery and museum visits required. Credit: 3 semester hours.*

### **2929 Culture of Southern Italy, A Visual Journey (Abroad)**

A photography course, taught abroad, concentrating on the documentation of a variety of cultures throughout southern Italy. *Credit: 3 semester hours.*

### **3105 Advertising Production**

In the context of a national advertising competition, students learn the pressures and rewards of designing, producing and presenting a comprehensive advertising campaign. *Credit: 3 semester hours. Studio fee, \$30.*

### **3110 Professional Portfolio**

A pre-professional course in which students with clarified career goals refine and perfect their portfolios by emphasizing the needs and concerns of target markets. Business skills, legal, contractual and taxation issues prepare the student for the professional world. *Credit: 3 semester hours. Studio fee, \$30.*

### **3115 Book Arts**

Application of advanced graphic design principles involved in the conception and production of visual elements of book design. *Credit: 3 semester hours. Studio fee, \$30.*

### **3120 Web Design**

*Prerequisite:* ART 1105, 1115. This course is specifically structured to introduce art majors to the tools and visual language required for successful web design. The student will systematically learn how to build WEB sites using Dreamweaver and other pertinent programs. *Credit: 3 semester hours. Studio fee, \$30.*

### **3125 Advanced Typography**

Complex typographical concerns exploring the use of type in a variety of medias, with emphasis on the development of a personal typographical problem solving. Studio. *Credit: 3 semester hours. Studio fee \$30*

### **3130 Advanced Web Design Course**

This course in Advanced Web Design is structured to introduce art majors to media rich Web design via the “flash” Macromedia plug-in. This design course allows students to add animation and interactivity to their Web design projects. *Credit: 3 semester hours.*

### **3240 Drawing Media Experimentation**

An opportunity for intermediate students to explore drawing techniques using mixed media combinations in great depth. *Credit: 3 semester hours. Studio fee, \$30.*

### **3330 Acrylic Painting**

Developing a focus in stylistic and content concerns, this investigation pursues a refinement of the student’s directions in painting. *Credit: 3 semester hours. Studio fee, \$30.*

### **3340 Figurative Painting (Painting III)**

Developing a focus in figurative concerns, this investigation pursues a refinement of the student’s directions in painting. *Credit: 3 semester hours. Studio fee, \$30.*

### **3350 Mixed Media Concerns**

An advanced level of research pursuing high standards of studio creativity and application. *Credit: 3 semester hours. Studio fee, \$30.*

### **3550 Experimental Printmaking**

*Prerequisite:* Art 1510. Individual study for advanced printmakers. The course encourages further exploration of various print media. *Credit: 3 semester hours. Studio fee, \$30.*

### **4120 Senior Design**

The development of theories and practices for communication design exploring social responsibility, sustainability, ethics, client relations, originality and compensation are covered. *Studio. Credits: 3 semester hours. Studio fee \$30*

### **4125 Creative Thesis**

*Restricted registration. Open to senior B.F.A. degree candidates only, upon recommendation of the Chair and Faculty Review Committee. Prerequisite: Completion of 78 art credits. A written statement of intention by each individual, followed by the creation of a major or related body of work in the area of concentration. Credit: 9 semester hours. Studio fee, \$30.*

### **4909 Internship**

*Restricted registration. Open to senior B.F.A. degree candidates only, upon recommendation of the Chair and Faculty Review Committee. Prerequisite: Completion of all required studio art courses. Students are placed in design studios, advertising agencies, galleries, museums or other institutions concomitant with their career aspirations, where they gain practical experience in real situations under the supervision of working professionals. Credit: 9 semester hours.*

### **4953 Independent Study (Art)**

A semester of independent work in the student’s major field of concentration. *(permission of the Department Chair required). Credits: 3 semester hours.*

## **Music Course Offerings (MUS)**

### **Literature and History of Music**

#### **1010 Introduction to Music**

An introduction to the art of listening to music through a discussion of the basic musical elements and musical structures. *Credit: 3 semester hours.*

#### **1070 The Opera**

Development of the opera from its antecedents prior to the 17th century through to the present, with particular emphasis on the distinct nature of opera as an independent art form. *Credit: 3 semester hours.*

#### **1080 World Music**

A survey of the history and development of music as a worldwide phenomenon, utilizing ethnomusicological methodology and cultural analysis as process. *Credit: 3 semester hours.*

### **1085 Popular Music of the Non-Western World**

The course introduces students to ethnomusicology and the cross-cultural study of popular music and culture. It explores music, performance and ideas from around the world. The course explores the role of music in human life. Ability to read musical notation is not required. No musical background is required. *Credit: 3 semester hours.*

### **1210 Twentieth Century Music**

An in-depth study of the major musical trends of the 20th century. *Credit: 3 semester hours.*

### **1230 History of American Popular Music**

A survey of popular music in America from colonial times to the present; a study of how popular music reflects the times and trends of American society. *Credit: 3 semester hours.*

### **1240 History of Music in Film**

A survey of the history and development of music in films from its earliest use to present inclusion in motion pictures. *Credit: 3 semester hours. Fee, \$30.*

### **1250 Sacred Music**

An intensive study of the literature of sacred music of the Western world from ancient times to the present. *Credit: 3 semester hours.*

### **1260 The American Musical Theatre**

The history of the American musical; its early influences, its continued stylistic changes and its current trends. *Credit: 3 semester hours.*

### **1300 History of Jazz**

A survey of the history and development of jazz as a unique American art form; the sociological, folk and primitive backgrounds of jazz, as well as its development as an improvisatory art; the contributions of jazz to concert music. *Credit: 3 semester hours.*

## **Theory and Composition**

### **1020 Theory I**

Scales, intervals, sight-singing, ear training, melodic dictation, elementary keyboard work, and the explanation of musical terminology. *Credit: 3 semester hours.*

### **2020 Theory II**

*Prerequisite:* MUS 1020. A study of triads, sevenths, ninth, chords and elementary modulations; further practice in ear training, harmonic analysis of compositions with emphasis on the Bach chorales. *Credit: 3 semester hours.*

## **Applied Music**

### **1600; 2600 Piano I; II**

Private lessons in piano. Instructor’s studio and limited teaching on campus; access to a piano required. *Credit: 1 semester hour per semester. Special fee, \$400.*

### **1620; 2620 Voice I; II**

Private lessons in voice. Instructor’s studio or on campus. *Credit: 1 semester hour per semester. Special fee, \$350.*

## Asian Studies (ASC)

### Major Sequence

36 semester hours including: 12 semester hours of language courses from Chinese (CHI), Japanese (JPN) or Korean (KOR), 1010, 1020, 1030, 2030, 2040, 3090, 3100 (Students may combine different languages, but must complete at least one course above level three.); 24 semester hours of non-language courses chosen from any undergraduate Asian Studies course. Eligible seniors may also choose graduate Asian studies survey courses with approval of the graduate division.

### B.A./M.A.

Qualified students who have completed their sophomore year with an overall index of 3.0 and a major index of 3.5 are encouraged to enter this intensive accelerated five-year program leading to two degrees. Under this program students matriculate for 147 undergraduate/graduate credits. Students are expected to maintain certain grade levels in undergraduate and graduate work to complete the requirements set forth in the existing bachelor's and master's degree programs. For additional program information consult the St. John's University Graduate Bulletin.

### Minor Sequence

18 semester hours in Asian studies (ASC), Chinese (CHI), Japanese (JPN) or Korean (KOR), with at least one ASC course included.

## Asian Studies Course Offerings (ASC)

### 1230 Contemporary China

An introduction to modern China from World War II to the present, with special emphasis on the problems of political, social and economic development. *Credit: 3 semester hours.*

### 1250 Contemporary Japan

The political, economic, social and religious development of Japan from the end of World War II to the present. *Credit: 3 semester hours.*

### 1300; 1310 Introduction to the Civilizations of Asia I and II

An introduction to the historical, political, economic and social forces that have shaped and continue to influence the modern civilization of Asia. *Credit: 3 semester hours.*

### 1330 Contemporary Korea

An introduction to modern Korea from WWII to the present, with special emphasis on the political, social and economic problems facing the divided Korean nation. *Credit: 3 semester hours.*

### 1480 Introduction to Chinese Thought

The basic ideas and concepts of Chinese civilization as expressed in its philosophy and writings from ancient to modern times. *Credit: 3 semester hours.*

### 1490 Introduction to Japanese Thought

The basic concepts of Japanese civilization as expressed in its philosophy and literature from ancient to modern times. *Credit: 3 semester hours.*

### 1800 Introduction to Buddhism

The origin of Buddhism in India: its metaphysics, ethics, monastic order and scriptures. *Credit: 3 semester hours.*

### 2210 Chinese Literature in Translation

An introduction to important Chinese works in translation from ancient to modern times, with special emphasis on major trends and genres in the historical development of literature in China. *Credit: 3 semester hours.*

### 2510 History of Modern East Asia

The forces and events that have shaped 20th century China, Japan and Korea including modernization, the emergence of nationalism, imperialism, Communism and the problems of the contemporary period. *Credit: 3 semester hours.*

### 2530 History of Modern China

The tragedies and triumphs of China in the modern world: the fall of the Manchu Empire, warlordism, WWII, civil war, the Communist Revolution, Maoism, the recent economic miracle and strategic choices for the future. *Credit: 3 semester hours.*

### 2540 America Meets China

A historical look at the encounter between the U.S. and China from 1785 to the present, as a prologue to the uniquely American forms of globalism and multiculturalism. *Credit: 3 semester hours.*

### 2710 Governments and Politics of the Far East

The political and institutional developments in the Far East, with major emphasis on China, Japan and Korea, their political backgrounds and present foreign relations. *Credit: 3 semester hours.*

### 4953 Reading and Research

*Restricted Registration. Open to ASC majors only.* With permission of the Director, a student conducts research under the guidance of a faculty advisor. *Credit: 3 semester hours.*

## Chinese Course Offerings (CHI)

### 1010; 1020 Elementary Chinese

*Prerequisite:* CHI 1010 *is a prerequisite for* CHI 1020. *Corequisite:* MFL 1011, *Language Laboratory.* The development of audio-lingual and reading skills through a study of the essentials of grammar, pronunciation and vocabulary. *Credit: 3 semester hours. Laboratory fee, \$25 per semester.*

### 2030; 2040 Intermediate Chinese

*Prerequisite:* CHI 1020 *or placement exam.* CHI 2030 *is a prerequisite for* CHI 2040. *Corequisite:* MFL 1011, *Language Laboratory.* A review of the essentials of grammar, extensive vocabulary building and development of writing skills. *Credit: 3 semester hours. Laboratory fee, \$25.*

### 3090; 3100 Readings of Selected Chinese Essays

*Prerequisite:* CHI 2040 *or placement exam.* Readings of selected works of representative writers of Chinese literature. *Credit: 3 semester hours.*

## Japanese Course Offerings (JPN)

### 1010; 1030 Elementary Japanese

*Prerequisite:* JPN 1010 *is a prerequisite for* JPN 1030. *Corequisite:* MFL 1011, *Language Laboratory.* Reading, writing and conversation through a study of all major types of Japanese sentences. Study of the essentials of grammar, pronunciation, accent, intonation and vocabulary is emphasized. *Credit: 3 semester hours. Laboratory fee, \$25.*

### 2030; 2040 Intermediate Japanese

*Prerequisite:* JPN 1030 *or placement exam.* JPN 2030 *is a prerequisite for* JPN 2040. *Corequisite:* MFL 1011, *Language Laboratory.* This course increases the student's ability in comprehending, reading and writing Japanese. *Credit: 3 semester hours. Laboratory fee, \$25.*

### 3090; 3100 Readings in Selected Japanese Essays

*Prerequisite:* JPN 2040 *or placement exam.* Intensive reading of selected essays compiled in Standard Japanese Readers, Book Two. 350 new Kanji are introduced. *Credit: 3 semester hours.*

## Korean Course Offerings (KOR)

### 1010; 1020 Elementary Korean

*Prerequisite:* KOR 1010 *is a prerequisite for* KOR 1020. *Corequisite:* MFL 1011, *Language Laboratory.* Introduction to Korean. The students study the fundamentals of the Korean language with emphasis on the Korean alphabet, spelling, pronunciation and basic grammar. *Credit: 3 semester hours. Laboratory fee, \$25.*

### 2030; 2040 Intermediate Korean

*Prerequisite:* KOR 1020 *or placement exam.* KOR 2030 *is a prerequisite for* KOR 2040. *Corequisite:* MFL 1011, *Language Laboratory.* This course provides a systematic expansion of vocabulary and grammatical forms of standard Korean. Chinese characters, as used in Korean mixed script, are also introduced. *Credit: 3 semester hours. Laboratory fee, \$25.*

### 3090; 3100 Readings in Selected Korean Essays

*Prerequisite:* KOR 2040 *or placement exam.* Completion of the introduction to Korean writing in mixed script and intensive reading in contemporary Korean essays. *Credit: 3 semester hours.*

## Biology (BIO)

### Major Sequence

32 semester hours including BIO 1210, 1211L, 1220, 1221L, 2230, and 20 elective hours in BIO. In addition, biology majors are required to take CHE 1210, 1220, 2230, 2240, MTH 1210, 1220 and PHY 1610, 1620 or 1930, 1940. BIO 1050, 1060, 1360 and 1600 are not applicable to the major sequence. Students are encouraged to take advantage of possibilities for research: BIO 4953 and 4954.

### B.S./M.S.

The Department of Biological Sciences offers an accelerated B.S./M.S. program designed to be completed in five years, which is open to undergraduate juniors with a 3.0 cumulative index overall and a 3.5 index in biology. B.S./M.S. students complete a total of 144 credits, 33 on the graduate level including BIO 207, 208; 211 and three semesters of BIO 599. Undergraduate credits must include BIO 1210, 1211; 1220, 1221; 2230, 2231; and 4953, 4954; and either BIO 3320, 3390, or 3470 in addition to all other science requirements for the major. Normally, students take BIO 207, 208, 211 and 248 or a comparable elective and one semester of BIO 599 in the fourth year, electives and two semesters of BIO 599 in the fifth year. Those selecting the thesis option also complete six credits of BIO 900 and additional elective credits. Other students complete additional elective credits. For detailed information, students should consult the graduate Dean's Office during their freshman or sophomore year.

### Minor Sequence

20 semester hours: BIO 1210, 1211L, 1220, 1221L, 2230 plus any two other courses listed in the current bulletin and approved by the department for majors. BIO 1050, 1060, 1360 and 1600 are not applicable to the minor sequence. Some of these courses have other prerequisites such as CHE 2240.

## Biology Course Offerings (BIO)

### 1050 Human Biology

An integrated study of aspects of human anatomy and physiology. Included are anatomy, physiology, cell biology, genetics, histology, embryology, growth and development. *Not open to BIO majors. Credit: 3 semester hours.*

### 1060 Biology and Health

An introduction to a basic understanding of the functioning of the body in health and disease and a knowledge of the contemporary advances in medicine and allied health fields. *Not open to BIO majors. Credit: 3 semester hours.*

### 1070 Environmental Biology

An introduction to human ecology and evolution; interrelations between humans and environment at the individual, population and ecosystem levels. *Not open to BIO majors. Credit: 3 semester hours.*

### 1210 Fundamentals of Biology, I: Introduction to Cell and Molecular Biology

*Corequisite:* BIO 1211 *Laboratory.* Exploration of the basic principles governing the activities of living organisms at the molecular and cellular levels. *Lecture, 3 hours. Credit: 3 semester hours.*

### 1211L Fundamentals of Biology I: Laboratory

*Corequisite:* BIO 1210. The principles and concepts of molecular and cell biology from a laboratory perspective. *Laboratory, 3 hours. Credit: 1 semester hour. Laboratory fee, \$100.*

### 1220 Fundamentals of Biology, II: Introduction to Organismic Biology

*Prerequisite:* BIO 1210. *Corequisite:* BIO 1221 *Laboratory.* Basic principles of physiological function and developmental processes. *Lecture, 3 hours. Credit: 3 semester hours.*

### 1221L Fundamentals of Biology II: Laboratory

*Prerequisite:* BIO 1211 *Laboratory. Corequisite:* BIO 1220. The principles of physiology and development from a laboratory perspective. *Laboratory, 3 hours. Credit: 1 semester hour. Laboratory fee, \$100.*

### 1360 Biology and Society

A study of environmental science and its relation to the human condition, changes in population, resources of the earth, chemicals in the environment and human health. *Not open to BIO majors. Credit: 3 semester hours. (SI)*

### 1600 Field Biology (Mini-Course)\*

General principles of ecology and field sampling techniques to measure parameters that influence the distribution of organisms in various ecosystems. *Field trips required. Not applicable in major or minor sequences. Not open to students who have previously taken BIO 3370. Credit: 3 semester hours.*

### 2230 Fundamentals of Biology, III: Introduction to Population Biology

*Prerequisite:* BIO 1220. *Corequisite:* BIO 2231L *Laboratory.* Evolution, classification and taxonomy, population biology and ecology. Biology majors must take this course in the semester following BIO 1220. *Lecture, 3 hours. Laboratory, 3 hours. Credit: 4 semester hours. Laboratory fee, \$60.*

### 2250 Introduction to Neurobiology

*Prerequisite:* BIO 1210 and 1220. The study of nervous systems from invertebrate to mammals focusing primarily on the mechanisms by which the brain functions. *Credit: 3 semester hours. Students who select this course are permitted to graduate with 31 credits of biology.*

### 2260 Cellular Biology of Human Tissues

*Prerequisite:* BIO 1220; 1221L. *Corequisite:* BIO 2261 *Laboratory.* A study of the human tissues, with emphasis on the cellular and molecular bases of their organization and function. *Lecture, 2 hours. Laboratory, 4 hours. Credit: 4 semester hours. Laboratory fee, \$100.*

### 2280 General Microbiology

*Prerequisite:* BIO 1220; 1221L. *Corequisite:* BIO 2281 *Laboratory.* The study of form and function in prokaryotic and eukaryotic microorganisms; microbial growth, metabolism, genetics, biochemistry and host defenses against microbial infection. *Lecture, 3 hours. Laboratory, 3 hours. Credit: 4 semester hours. Laboratory fee, \$100.*

### 2310 Botany

*Prerequisite:* BIO 1220; 1221L. *Corequisite:* BIO 2311 *Laboratory.* The biology of plants: their morphology, evolution and classification. *Field trips. Lecture, 2 hours. Laboratory, 4 hours. Credit: 4 semester hours. Laboratory fee, \$60.*

### 2510 Aquatic Ecology

*Prerequisite:* BIO 2230; or consent of instructor. *Corequisite:* BIO 2511 *Laboratory.* Introduction to major ecological principles of freshwater and marine habitats. *Field trips required. Lecture, 2 hours. Laboratory, 4 hours. Credit: 4 semester hours. Laboratory fee, \$60.*

### 3270 Developmental Biology

*Prerequisite:* BIO 1220; 1221L. *Corequisite:* BIO 3271 *Laboratory.* A study of how the fertilized egg develops into a complex organism. Both descriptive embryology and experimental analysis of development are studied. *Lecture, 2 hours. Laboratory, 4 hours. Credit: 4 semester hours. Laboratory fee, \$60.*

### 3300 General Physiology

*Prerequisites:* BIO 1220; 1221L, CHE 2230. *Corequisite:* BIO 3301 *Laboratory and PHY 1620 or 1940.* A study of cell functions and intercellular relationships necessary for an understanding of the whole (multicellular) organism. *Lecture, 2 hours. Laboratory, 4 hours. Credit: 4 semester hours. Laboratory fee, \$60.*

### 3320 Genetics

*Prerequisite:* BIO 1220; 1221L. *Corequisite:* BIO 3321 *Laboratory and CHE 2240.* The principles of genetics including the consideration of the nature of genetic material, its mode of transmission, modes of expression and mechanisms of gene action. *Lecture, 2 hours. Laboratory, 4 hours. Credit: 4 semester hours. Laboratory fee, \$60.*

**3370 Ecology**

*Prerequisite:* BIO 2230 or consent of instructor.  
*Corequisite:* BIO 3371. Ecological principles concerning animals and plants, with emphasis on group phenomena, especially the dynamics and evolution of ecosystems, communities and populations. *Field trips. Lecture, 2 hours. Laboratory, 4 hours. Credit: 4 semester hours. Laboratory fee, \$60.*

**3390 Biochemistry**

*Prerequisite:* BIO 1220; 1221L and CHE 2240, or consent of the instructor. *Corequisite:* BIO 3391 *Laboratory.* An introduction to the chemistry of biological compounds; the principles of enzymology; the metabolism of carbohydrates, lipids, proteins, and nucleic acids, and the control of metabolism. *Lecture, 3 hours. Laboratory, 3 hours. Credit: 4 semester hours. Laboratory fee, \$60.*

**3460 Concepts of Immunology**

*Prerequisite:* BIO 1220; 1221L. *Corequisite:* BIO 3461 *Laboratory.* Useful background: inorganic and organic chemistry, microbiology. An introduction to the organization and functions of the immune system along with basic experimental methodologies. *Lecture, 2 hours. Laboratory, 4 hours. Credit: 4 semester hours. Laboratory fee, \$60.*

**3470 Molecular and Cell Biology**

*Prerequisite:* BIO 1220; 1221L and 3390.  
*Corequisite:* BIO 3471 *Laboratory.* Molecular basis of gene expression in prokaryotic and eukaryotic cells, molecular principles of cell architecture, and the cell cycle. *Lecture, 2 hours. Laboratory, 4 hours. Credit: 4 semester hours. Laboratory fee, \$60.*

**3490 Dental Preceptorship**

*Prerequisite:* BIO 1210/1211L and 1220/1221. Clinical observation in general dental practice and selected dental specialties. *Credit: 1 semester hour.*

**4953; 4954 Research in Biology**

*Prerequisite:* 3.0 GPA, approval of the Undergraduate Educational Policy Committee and acceptance from a member of the department faculty for a research project. *Registration in both 4953 and 4954 simultaneously requires explicit approval of the UEPC.* Qualified juniors and seniors majoring in biology may undertake directed research in a chosen field of biology. *Laboratory and Seminars, 4 hours. Credit: 2 semester hours per semester. Laboratory fee, \$60.*

**Business (BUS)****Minor Sequence**

18 semester hours including: ACC 2338 and 2339 or 2340; ECO 1301, 1302; MGT 3301; and MKT 3301. The business minor sequence requires MTH 1310, 1320, and CIS 1332 and DS2333 as prerequisite to junior level courses. No student is permitted to enroll in any junior or senior level business course (courses numbered 3000 or above) without completing the designated prerequisite(s): MTH 1310 and 1320 and [CIS 1332 or DS2333].

*Note: BUS courses are taught by The Peter J. Tobin College of Business faculty. Students interested in pursuing the Business minor should consult The Peter J. Tobin College of Business section of this bulletin for a list of course offerings*

**Chemistry (CHE)****Major Sequences**

45 or 49 semester hours including: CHE 1210, 1220, 2230, 2240, 3250, 3270, 3280, 3300, 3320, 3340 and 3441; Option I or II or III (see below). In addition, all chemistry majors must take MTH 1730, 1740 and PHY 1930, 1940.

**Option I: B.S. in Chemistry (45 credits)**

One of the following: CHE 3260, 3310, 3330, 4351, 4361, 4903, 3390, 3420, 3431, or a 100 level graduate CHE course.

**Option II: B.S. in Chemistry with American Chemical Society Certification (49 credits)**

CHE 3390 and one of the following: CHE 3260, 3310, 3330, 4351, 4361, 4903, 3420, 3431, or a 100-level graduate CHE course.

**Option III: B.S. in Chemistry with a Concentration in Biochemistry (49 credits)**

CHE 3390 and BIO 3470. CHE 3330 and BIO 3320 are also highly recommended electives.

**B.S./M.S.**

Students admitted to the accelerated B.S./M.S. Program in chemistry take as their major sequence in chemistry for their baccalaureates these 41/42 semester hours: CHE 1210, 1220, 2230, 2240, 3250, 3270, 3280, 3300 or 101, 3320, 3340 or 111, 3441. Students must consult with the department for the scheduling of courses. In addition, students in the B.S./M.S. Program in chemistry must elect the thesis option for the M.S. degree and complete CHE 4351 and one additional graduate course (either CHE 121 or 141) during their senior year. Students completing the baccalaureate will receive ACS Certification of their degree. Eligibility requires a 3.0 overall index with a 3.5 index in the major. For additional requirements for the master's degree, students should consult the St. John's University Graduate Bulletin.

**Minor Sequence**

26 semester hours: CHE 1210, 1220, 2230, 2240, and two additional chemistry courses with numbers above 2240.

**Chemistry Course Offerings (CHE)****1100 College Chemistry**

A study of some of the basic concepts of chemistry, with an emphasis on chemical stoichiometry and the relationship between the periodic table and the chemical and physical properties of elements and their compounds. A preparatory course for General Chemistry (CHE 1210) for students whose background in science is weak and for those who have had no prior CHE course. *Lecture, 2 hours. Recitation, 1 hour. Credit: 3 semester hours.*

**1110; 1120; 1130 Introduction to General and Organic Chemistry**

*Prerequisite:* CHE 1100 (or another prior CHE course) is a prerequisite for CHE 1110. CHE 1110 is a prerequisite for CHE 1120. CHE 1120 is a prerequisite for CHE 1130. *Corequisite:* CHE 1111 *Laboratory* and CHE 1112 *Recitation* are corequisites for CHE 1110. CHE 1121 *Laboratory* and CHE 1122 *Recitation* are corequisites for CHE 1120. CHE 1131 *Laboratory* and CHE 1132 *Recitation* are corequisites for CHE 1130. An introduction to the principles and concepts of general and organic chemistry for students planning to pursue the Pharm.D or P.A. degree in Pharmacy. *Course sequence does not satisfy the CHE requirements for BIO or CHE majors or Pre-Med students. Not applicable to the CHE minor sequence. Lecture, 3 hours. Recitation, 1 hour. Laboratory, 3 hours. Credit: 4 semester hours per semester. Laboratory fee: \$60 per semester.*

**1140 Introduction to General and Organic Chemistry**

*Prerequisite:* CHE 1130. *Corequisite:* CHE 1141 *Laboratory* and CHE 1142 *Recitation.* A continuation of CHE 1110, 1120 and 1130 to complete a sequence equivalent to CHE 1210, 1220, 2230, and 2240. This course provides more advanced topics in chemical structure, thermodynamics, kinetics and organic chemistry required of students interested in the sciences or pre-medical professional fields. *Note: Course along with 1110, 1120 and 1130 satisfies CHE requirements for BIO/CHE majors and PRE-MED students. Lecture, 3 hours. Credit: 4 semester hours per semester. Laboratory fee, \$60 per semester.*

**1210 General Chemistry I**

*Prerequisite:* CHE 1100 (or another prior CHE course) is a prerequisite for CHE 1210. *Corequisite:* CHE 1211 *Laboratory* and CHE 1212 *Recitation* are corequisites for CHE 1210. Principles and concepts of chemistry with emphasis place on stoichiometry, atomic and molecular structure and inorganic chemical reactions. In the laboratory, emphasis is placed on quantitative measurements. *Lecture, 3 hours. Recitation, 1 hour. Laboratory, 4 hours. Credit: 5 semester hours. Laboratory fee, \$60 per semester.*

### 1220 General Chemistry II

*Prerequisite:* CHE 1210 is a prerequisite for CHE 1220. *Corequisite:* CHE 1221 Laboratory and CHE 1222 Recitation are corequisites for CHE 1220. Introductory physical chemistry focusing on equilibrium, kinetics, electrochemistry and properties of matter, including acids and bases. *Lecture, 3 hours. Recitation, 1 hour. Laboratory, 4 hours. Credit: 5 semester hours. Laboratory fee, \$60 per semester.*

### 1310 Honors General Chemistry: Introduction to Physical Chemistry

*Prerequisites:* It is expected that students will have had at least one year of chemistry in high school and one year of pre-calculus. *Corequisites:* MTH 1730 and CHE 1313LR. Principles and concepts of chemistry emphasizing quantum mechanics, thermodynamics, physical properties of solids, liquids and gases, equilibria, acids and bases. *Credit: 3 semester hours.*

### 1313RL Honors General Chemistry: Laboratory and Recitation

*Prerequisite:* Students are expected to have had at least one year of chemistry in high school. *Corequisites:* MTH 1730 and CHE 1310. A course whose primary focus is on the procedures and techniques used in the modern chemical laboratory and recitation for the lecture CHE 1310. *Recitation, 1 hour. Laboratory, 4 hours. Credit: 2 semester hours.*

### 1320 Honors General Chemistry: Descriptive Inorganic Chemistry

*Prerequisite:* CHE 1310 is a prerequisite for CHE 1210. *Corequisite:* CHE 1321L Laboratory is a corequisite for CHE 1320. Principles and concepts of chemistry with a study of the elements and their compounds, including acid base chemistry, electrochemistry, transition metals, main group elements, and nuclear chemistry. *Lecture, 3 hours. Recitation, 1 hour. Credit: 4 semester hours.*

### 1321RL Honors General Chemistry: Laboratory II

Students learn to use and interpret data from research instruments: GC/MS, FTIR, NMR and HPLC for structure determination and analysis. *Laboratory, 4 hours. Credit: 1 semester hour, Laboratory fee \$60 per semester.*

### 2230; 2240 Organic Chemistry

*Prerequisite:* CHE 1220. CHE 2230 is a prerequisite for CHE 2240. *Corequisite:* CHE 2231 Laboratory is a corequisite for CHE 2230. CHE 2240 Laboratory is a corequisite for CHE 2240. An introduction to the fundamental principles of organic chemistry in which the synthesis, structure, and mechanisms of reactions of organic compounds are emphasized. *Lecture, 3 hours. Laboratory, 5 hours per week. Credit: 5 semester hours. Laboratory fee, \$60 per semester.*

### 3250 Quantitative Analysis

*Prerequisite:* CHE 1220. *Corequisite:* CHE 3251 Laboratory. Quantitative analytical methods in chemistry. Buffer systems; important polybasic acids; an introduction to spectrophotometric and electrochemical methods. *Lecture, 2 hours. Laboratory, 6 hours. Credit: 4 semester hours. Laboratory fee, \$60.*

### 3270 Physical Chemistry I

*Prerequisite:* CHE 2240, MTH 1220 or 1740. *Corequisite:* PHY 1940. The laws and theories that describe the physical and chemical properties of the elements and their compounds. Kinetic theory of gases, introduction to statistical mechanics, thermodynamics of pure substances and solutions. *Lecture, 3 hours. Credit: 3 semester hours.*

### 3280 Physical Chemistry II

*Prerequisite:* CHE 3270. *Corequisite:* CHE 3321. Continuation of CHE 3270. Thermodynamics of chemical reactions, electrochemistry, chemical kinetics, introduction to quantum mechanics. *Lecture, 3 hours. Credit: 3 semester hours.*

### 3300 Instrumental Methods of Chemical Analysis

*Prerequisite:* CHE 3250, 3270, 3280. *Corequisite:* CHE 3301 Laboratory. Basic electronics, principles of instrumentation, transducers for chemical systems, applications of instrumental measurements and techniques, including infrared, fluorescence, ultraviolet, and nuclear magnetic resonance spectroscopy, gas chromatography, liquid chromatography, differential scanning calorimetry, electrochemical methods. *Lecture, 2 hours. Laboratory, 6 hours. Credit: 4 semester hours. Laboratory fee, \$60.*

### 3320 Experimental Physical Chemistry

*Corequisite:* CHE 3280. A laboratory course designed to correlate the abstract principles and equations of physical chemistry with the experimental observations upon which they are based. *Lecture, 1 hour. Laboratory, 6 hours. Credit: 3 semester hours. Laboratory fee, \$60.*

### 3330 Bioorganic Chemistry

*Prerequisite:* CHE 2230 and 2240. The application of the principles and tools of organic chemistry to the understanding of biological processes involving proteins, nucleic acids, and carbohydrates. *Lecture, 3 hours. Credit: 3 semester hours.*

### 3340 Advanced Inorganic Chemistry

*Prerequisite:* CHE 3280 and MTH 1740. Nuclear chemistry, atomic theory and periodic properties; covalent, ionic, and metallic bonding; introduction to molecular symmetry and point groups; acid-base theories and transition metal chemistry. *Lecture, 3 hours. Credit: 3 semester hours.*

### 3390 Biochemistry

*Prerequisite:* BIO 1220, 1221 and CHE 2240 or permission of the instructor. An introduction to the chemistry of biological compounds; the principles of enzymology; the metabolism of carbohydrates, lipids, proteins and nucleic acids and the control of metabolism. *Lecture, 3 hours. Laboratory, 3 hours. Credit: 4 semester hours. Laboratory fee, \$60.*

### 3420 Environmental Chemistry

*Prerequisite:* CHE 1220. The chemical principles which govern environmental quality and environmental regulations are developed using specific examples such as global warming, ozone depletion, water quality and air pollution. *Credit: 3 semester hours.*

### 3431 Methods in Environmental Chemistry

*Prerequisite:* CHE 3420. Laboratory work providing hands-on experience with the techniques and instruments used in modern environmental investigations. *Credit: 3 semester hours.*

### 3441 Introduction to Inorganic Synthesis

*Prerequisite:* CHE 3340. An introduction to the techniques and methods utilized in the synthesis and characterization of inorganic compounds. *Lecture, 1 hour. Laboratory, 4 hours. Credit: 2 semester hours. Laboratory fee, \$60.*

### 4351; 4361 Research Participation I; II

*Prerequisite:* CHE 2240 and permission of the professor. Active participation in an ongoing research project of one of the faculty members. Affords first-hand experience in the scientific process of discovering and correlating new knowledge. Students taking these courses for either a major or a minor in chemistry must submit a written research report at the end. Research experience is highly recommended by the American Chemical Society. Laboratory hours arranged. *Credit: 3 semester hours. Laboratory fee, \$60 per semester.*

### 4903 Chemistry Internship

*Prerequisite:* CHE 2240. This course provides credit for a well-designed program of summer research or industrial participation in the chemical sciences. Students enrolled must spend at least 300 hours in academic research or in another activity associated directly with the chemical industry. Students are required to write a comprehensive, scholarly report covering all aspects of their work. *Credit: 3 semester hours.*

## Economics (ECO)

Students interested in pursuing the ECO major/minor should consult The Peter J. Tobin College of Business section of this bulletin for a list of course offerings.

### Major Sequence

36 semester hours including: ECO 1301, 1302, 3303, 3341, 3343; DS 2333, 2334; and five elective courses in the major, selected in consultation with a departmental advisor, from ECO 2309, 3306, 3307, 3313, 3323, 3335, 3344, 3346, 3347, 3348, 4340, 4345, 4350, FIN 3310, 3312, 3316, 3318. ECO 1326 and ECO 2327 are not applicable to the major sequence. No more than two of the above FIN courses may apply to the major. Additional FIN courses may be taken as general electives.

All ECO majors are required to take MTH 1310 and 1320. MTH 1320 is one of the prerequisites for DS 2333. ECO majors are also encouraged to take a computer science course, e.g., CSC 1390 or CIS 1332.

### Minor Sequence

18 semester hours including: ECO 1301, 1302, 2309, and nine semester hours in ECO selected in consultation with a departmental advisor. ECO 1326 and ECO 2327 are not applicable to the minor sequence. *Note: ECO courses are taught by The Peter J. Tobin College of Business faculty.*

## Education

Students who wish to obtain teacher certification should consult the School of Education section of this Bulletin and/or see the Dean for additional information.

## English (ENG)

### Major Sequence

36 semester hours, including nine credits in ENG 1100C, 2200 and 2300. In addition, each student must take one course in each of the four divisions (I–IV) of literary studies (12 credits), a seminar (3 credits), and 12 credits in electives.

### B.A./M.A.

The students accepted in the five-year B.A./M.A. program matriculates for 30 undergraduate credits, including the three required English courses (ENG 1100C, 2200 and 2300), a course in each of the four major divisions, 6 credits in electives, and a seminar. They matriculate in two graduate courses in the junior year and two graduate courses in their senior year and continue with upper level courses in the fifth year of study. Eligibility for this program requires a 3.0 overall index with a 3.5 index in English. For additional requirements for the master's degree, consult the St. John's University Graduate Bulletin.

### Minor Sequences

#### English

21 semester hours, including nine credits in ENG 1100C, 2200 and 2300, a seminar, and nine credits in electives.

#### Creative Writing

21 semester hours, including nine credits in ENG 1100C, 2200 and 2300, a seminar and nine credits of electives in creative writing courses.

*Note: ENG 0010 and 1000C are not applicable to major or minor sequences.*

## English Course Offerings (ENG)

### 0010 Introduction to Critical Writing

A cross-disciplinary course emphasizing the writing of personal essays as well as critical responses to assigned readings.  
*Credit: 3 semester hours.*

### 1000C English Composition

In this writing intensive course, students read a variety of essays, analyzing them for content, structure and language. Analysis and synthesis, in both reading and writing about a variety of subjects, are required. Research techniques are studied and a research paper is required.  
*Credit: 3 semester hours.*

### 1040 Writing for Business

An exploration of common business-related writing problems, as well as critical responses to business-oriented readings.  
*Credit: 3 semester hours.*

### 2060 The Study of American Literature

An intensive study of a limited number of texts drawn from the various periods of American literature.  
*Credit: 3 semester hours.*

### 2100 Literature and Culture

This course is devoted to the study of the relationship between literature and culture focusing on literary texts connected by common aesthetic, generic, or historical themes.  
*Credit: 3 semester hours.*

### 2210 The Study of British Literature

An intensive study of a limited number of texts drawn from the various periods of British literature.  
*Credit: 3 semester hours.*

## Required Courses for the English Major

### 2200C Literature in a Global Context

*Prerequisite:* ENG 1000C. This writing-intensive course examines literature from a global perspective. While familiarizing students with literary genres and texts, the course introduces students to writing and critical thinking about culture, cultural difference and social values.  
*Credit: 3 semester hours.*

### 2100 Introduction to English Studies

A foundation course introducing English majors and minors to the disciplinary practices of the English major. Required of all majors and minors in their sophomore or junior years.  
*Credit: 3 semester hours.*

### 2300 Introduction to Literary Criticism and Theory

An introduction to the history of critical theory, with emphasis on contemporary literary theory, and its practical application. *Required of all majors in their sophomore or junior years.*  
*Credit: 3 semester hours.*

## Major Divisions of Literary Studies

*Students are required to take at least one course from each of the following four major divisions of literary studies.*

### Division I: Medieval and Renaissance English Literature

#### 3000 Medieval Romance

An introduction to the genre of medieval romance, one of the most important narrative forms in later medieval literature.  
*Credit: 3 semester hours.*

#### 3100 Medieval English Literature (formerly ENG N35/31)

Major literary works from *Beowulf* to the mid-15th century.  
*Credit: 3 semester hours.*

#### 3110 Chaucer

A study of the poetry of Chaucer, with an emphasis on *The Canterbury Tales*.  
*Credit: 3 semester hours.*

#### 3120 Renaissance Literature

Major non-dramatic writers of the late 15th and 16th centuries.  
*Credit: 3 semester hours.*

### 3130 Shakespeare: The Elizabethan Plays

A close study of approximately seven plays representative of the genres of history, comedy and tragedy and expressive of Shakespeare's early idealism.  
*Credit: 3 semester hours.*

### 3140 Shakespeare: The Jacobean Plays

A close study of approximately seven plays representative of the genres of tragedy, problem comedy and romance, and expressive of Shakespeare's mature vision.  
*Credit: 3 semester hours.*

### 3150 Elizabethan and Jacobean Plays

A study of representative playwrights other than Shakespeare.  
*Credit: 3 semester hours.*

### 3160 Seventeenth Century English Literature

A study of the schools of Jonson and Donne, and other important poetry of the 17th century.  
*Credit: 3 semester hours.*

### 3170 Milton

A study of Milton's complete poetry and selected prose.  
*Credit: 3 semester hours.*

### 3180 Medieval Epics and Sagas

An introduction to medieval epics and sagas—, narratives about the historical past in either verse or prose that celebrate heroes and the grandeur of their deed.  
*Credit: 3 semester hours.*

### 3190 Special Topics in Medieval and Renaissance English Literature

A study in special themes and topics in literature and cultural studies, from the beginning of the Middle Ages through Milton and the Puritan revolution. The course material is intended to supplement the regular course offerings in Division I.  
*Credit: 3 semester hours.*

## Division II: Eighteenth- and Nineteenth-Century English Literature

### 3200 Eighteenth-Century English Literature

A study of major 18th-century writers, including Dryden, Pope, Swift and Johnson.  
*Credit: 3 semester hours.*

### 3210 The Drama: 1660–1870

English drama from the Restoration to the beginning of the modern period.  
*Credit: 3 semester hours.*

### 3220 Eighteenth-Century Novel

A study of the beginnings of the English novel through to the works of Jane Austen.  
*Credit: 3 semester hours.*

### 3230 Nineteenth-Century Novel

A study of the distinctive genres of Romantic and Victorian prose fiction, including the Gothic, detective fiction, stories of adventure and exploration, and the realistic novel.  
*Credit: 3 semester hours.*

### 3240 Romantic Literature

A study of the major figures of the first and second Romantic generations—Blake, Godwin, Wollstonecraft, Wordsworth, Coleridge, Austen, Byron, the Shelleys, Keats—with readings in poetry, prose fiction, journalism, correspondence and literary criticism.  
*Credit: 3 semester hours.*

### **3250 Victorian Literature**

A study of the genres and functions of literature of Victorian Britain, with emphasis on the emergence of the professional writer as revolutionary, sage and social critic.  
*Credit: 3 semester hours.*

### **3260 Women Writers of the Nineteenth Century**

A study of the political and cultural contexts of writing by women in the 19th century, including prose fiction and social criticism by figures such as Jane Austen, Mary Shelley, Margaret Fuller, the Brontes and George Eliot.  
*Credit: 3 semester hours.*

### **3290 Special Topics in Eighteenth- and Nineteenth-Century English Literature**

A study of special themes and topics in literature and cultural studies, from the early modern period to the threshold of the 20th century (1660–1900). The course material is intended to supplement the regular course offerings in Division II.  
*Credit: 3 semester hours.*

## **Division III: American Literature Until 1900**

### **3300 Colonial American Literature**

A study of the literary movements of the colonial period in America from the Puritans through the Federalist writers, including the oral traditions of Native Americans.  
*Credit: 3 semester hours.*

### **3310 Antebellum American Literature**

A study of 19th-century literature, with an emphasis on the writers of the American Romantic tradition. *Credit: 3 semester hours.*

### **3320 Nineteenth-Century American Fiction**

A study of the novelists and fiction writers of the 19th century in America, including Hawthorne, Melville, Poe and Stowe.  
*Credit: 3 semester hours.*

### **3330 African-American Literature to 1900**

A study of African-American literature to 1900, using texts such as slave and travel narratives, fiction, drama and poetry, as well as texts drawn from other disciplines.  
*Credit: 3 semester hours.*

### **3340 American Realism and Naturalism**

A study of the realist and naturalist traditions of American prose, including Howells, James, Crane, Twain, Dreiser and other writers of the late 19th and early 20th centuries.  
*Credit: 3 semester hours.*

### **3350 American Women Writers to 1900**

A study of the writing by women in colonial and 19th-century America.  
*Credit: 3 semester hours.*

### **3360 Early National American Literature**

A study of U.S. literature between the Revolution and the presidency of Andrew Jackson. Authors may include Susannah Rowson, Royall Tyler, Washington Irving, Catherine Sedgwick, James Fenimore Cooper and Lydia Maria Child. *Credit: 3 semester hours.*

### **3390 Special Topics in American Literature to 1900**

A study of special themes and topics in literature and cultural studies, from the colonial period of American literature up to 1900. The course is intended to supplement the regular course offerings in Division III.  
*Credit: 3 semester hours.*

## **Division IV: Twentieth-Century American and British Literature**

### **3400 Modernist Literature**

A study of the emergence of modernism in the literature and culture of the early 20th century, with an emphasis on the conception of the "modern" as new and distinct from the past and its insistence on experimentation.  
*Credit: 3 semester hours.*

### **3410 Modern Fiction**

A study of the development of the novel and prose fiction in early 20th-century British and American literature, including such figures as Conrad, Joyce, Woolf, Hemingway, Fitzgerald and Faulkner. *Credit: 3 semester hours.*

### **3420 Contemporary Fiction**

A study of the development of the novel and prose fiction since World War II in America and Great Britain, with an emphasis on the emergence of postmodernism in fiction.  
*Credit: 3 semester hours.*

### **3430 Modern Poetry**

A study of the great modernist poets of the early 20th century in America and Great Britain, including the works of Yeats, Eliot, Pound, Stevens, Williams and Auden.  
*Credit: 3 semester hours.*

### **3440 Contemporary Poetry**

A study of the poetry of important British and American poets since World War II, with an emphasis on the emergence of postmodernism in poetry. *Credit: 3 semester hours.*

### **3450 Modern Drama**

Readings and criticism of several important playwrights (Ibsen, Chekhov, Strindberg, Shaw, O'Neill and others). *Credit: 3 semester hours.*

### **3460 Contemporary Drama**

Readings of important post-war playwrights like Albee, Ionesco, Beckett and Pinter.  
*Credit: 3 semester hours.*

### **3470 Twentieth-Century African-American Literature**

Writers, movements and issues of 20th-century African-American literature, with an emphasis on the relation of literary to oral traditions. *Credit: 3 semester hours.*

### **3490 Special Topics in Twentieth-Century British and American Literature**

A study of special themes and topics in literature and cultural studies, from the turn of the century to the present in both America and Great Britain. The course is intended to supplement the regular course offerings in Division IV. *Credit: 3 semester hours.*

## **Additional Courses**

### **3500 Classical Literature**

A study of Western writers from Homer and the Greek tragedians through the Roman period, ending with St. Augustine.  
*Credit: 3 semester hours.*

### **3510 Medieval and Renaissance European Literature**

A study of Western writers from Dante and the High Middle Ages through the Renaissance.  
*Credit: 3 semester hours.*

### **3520 Modern World Literature**

A study of some major texts of European literature from the 17th century to the present.  
*Credit: 3 semester hours.*

### **3530 The Gothic**

An introduction to the history and cultural significance of Gothic genres, forms, styles, and recurrent horrors from the Romantic origins of the Gothic through its modernist and postmodernist representations.  
*Credit: 3 semester hours.*

### **3540 Irish Literature**

A study of Irish literature as a distinct and important body of work including a study of Irish folklore, important Anglo-Irish writers of the 18th and 19th centuries, the Irish Renaissance of the early 20th century, and the development of Irish literature after independence. *Credit: 3 semester hours.*

### **3550 Short Fiction**

A study of the major developments of this genre through an analysis of representative texts of Chekhov, Joyce, Lawrence, Kafka, Borges and others. *Credit: 3 semester hours.*

### **3560 American Ethnic Literatures**

A study of works by culturally diverse American writers like Toni Morrison, Maxine Hong Kingston, James Baldwin, Jamaica Kincaid, Derek Walcott, Sandra Cisneros, Louise Erdrich, Leslie Marmon Silko, Bharati Mukherjee and August Wilson. *Credit: 3 semester hours.*

### **3570 Women and Literature**

This course explores writing by women. Texts may represent different historical periods, or ethnic allegiances, including poetry, fiction, drama and autobiography.  
*Credit: 3 semester hours.*

### **3580 Postcolonial Literature**

A critical introduction to the study of postcolonial literature through selected readings from contemporary African, American, Australian, Caribbean, Indian and Latin American writers. *Credit: 3 semester hours.*

### **3590 Literature and the Other Arts**

A study of selected English and/or American literary texts are evaluated in relation to important works of music, painting, sculpture, dance, theater and/or film.  
*Credit: 3 semester hours.*

### **3600 Classical Epic in Translation**

An examination of Greek and Roman epics from its oral origins in Homer, through its Alexandrian incarnation in Apollonius of Rhodes, to its use as political instrument in Virgil. No knowledge of Greek or Latin required. *Credit: 3 semester hours.*

**3610 Classical Drama in Translation**

Readings and discussions of the representative plays of the classical Greek and Roman theatre. No knowledge of Greek or Latin required. *Credit: 3 semester hours.*

**3690 Special Topics in Literary and Cultural Studies**

A study of special themes and topics in cultural studies, transnational and trans-historical in focus and the ways in which the study of literature can become the basis for a study in "culture" in the broadest sense. *Credit: 3 semester hours.*

**Creative Writing Courses****3700 The Teaching of Writing**

An introduction to composition theory and pedagogy, with special emphasis on one-to-one peer tutoring. Designed especially for education majors, minors and students interested in working in the Writing Center. *Lecture, 2 hours. Laboratory (in Writing Center), 4 hours. Credit: 4 semester hours.*

**3710 Creative Writing: Nonfiction Prose**

An introduction to writing various forms of nonfiction. *Credit: 3 semester hours.*

**3720 Introduction to Creative Writing**

A course designed to help develop creative writing skills, with emphasis on traditional and contemporary forms of poetry, fiction, drama. *Credit: 3 semester hours.*

**3730 Creative Writing: Poetry**

Intensive writing workshop on poetry and poetics. *Credit: 3 semester hours.*

**3740 Creative Writing: Fiction**

Intensive writing workshop on fiction and fiction theory. *Credit: 3 semester hours.*

**3750 Advanced Writing Workshop**

An advanced composition course focusing on the writing of personal narratives, analyses, essays, arguments and research articles. *Credit: 3 semester hours.*

**Mini-Courses****4110 Elizabethan Love Tragedy**

A close study of Elizabethan love tragedies by Shakespeare, Beaumont, Fletcher, Webster and others. *Not applicable to major or minor sequences. Credit: 3 semester hours.*

**4120 William Blake: Mystic or Madman**

A study of the mysticism and "madness" in the engravings and related poems of William Blake. *Not applicable to major or minor sequences. Credit: 3 semester hours.*

**4130 Defining the Self: The Individual in Literature, Art and Culture**

An introduction to significant cultural achievements of the Enlightenment and Romanticism that seek to define the individual person. *Not applicable to major or minor sequences. Credit: 3 semester hours.*

**4140 Mood-Breakers: A Course in Comedy**

The theory and nature of comedy in the theater, from slapstick to satire, and representative works from the comedy of ancient Greece to current comedy in the media. *Not applicable to major or minor sequences. Credit: 3 semester hours.*  
*Note: Mini-courses do not satisfy the St. John's College Core requirement.*

**Seminars and Independent Study****4903 Internship in English and Related Fields**

*Restricted registration.* Field work (8 hours per week) in selected organizations that utilize the English major's writing and research skills under coordinated faculty and professional supervision. *Credit: 3 semester hours.*

**4906 Internship in English and Related Fields**

*Restricted registration.* Field work (16 hours per week) in selected organizations that utilize the English major's writing and research skills under coordinated faculty and professional supervision. *Credit: 6 semester hours.*

**4953 Independent Study**

*Restricted registration.* Independent research in an area of the student's own selection under the general advisement of a faculty member. *Credit: 3 semester hours.*

**4991 Seminar in British Literature**

*Prerequisites:* ENG 2200, 2300. Research problems in literature and criticism. *Students may take more than one seminar. Limited to juniors and seniors. Credit: 3 semester hours.*

**4992 Seminar in American Literature**

*Prerequisites:* ENG 2200, 2300. Research problems in literature and criticism. *Students may take more than one seminar. Limited to juniors and seniors. Credit: 3 semester hours.*

**4993 Seminar in Special Author(s)**

*Prerequisites:* ENG 2200, 2300. Research problems in literature and criticism. *Students may take more than one seminar. Limited to juniors and seniors. Credit: 3 semester hours.*

**4994 Seminar in Theme(s) and/or Genre(s)**

*Prerequisites:* ENG 2200, 2300. Research problems in literature and criticism. *Students may take more than one seminar. Limited to juniors and seniors. Credit: 3 semester hours.*

**Environmental Studies Program (ESP)****Major Sequences****B.A.**

49 semester hours, including: GOV 1030, 2500; GEO 2001; ESP 1010, ESP 4990; BIO 2230, 2231; ANT 1120. In addition, students must complete 27 credits from the following elective courses: ANT 1010, 1020, 1030, 1040, 4820; GOV 2470, 2480, 2510, 3520, 1530, 4923/4926; GEO 1002; ESP 2110, 2150, 2160, 2170, 3320, 2410, 3490, 2510, 4900, 4953, 4954; PHY 1080, 1090, 1120; SOC 2210, 2610, 1220; ECO 1301, 1302; BIO 1070, 1210 and 1211, 1220 and 1221, 2310, 2280, 3300; CHE 1040, 1210, 1220; PHI 3720, 3800, 3810.

**B.S.**

50 semester hours, including: CHE 1210, 1220; BIO 1210/1211/1220/1221/2230/2231; GEO 2001; ESP 1010 and 4990. In addition, students must complete 19 credits from the

following elective courses: BIO 2280, 3300, 2310, 3370; CHE 2230, 2240, 3250, 3420, 3431; ESP 1010, 2110, 2150, 2160, 2170, 3320, 2410, 3490, 2510, 4900, 4953, 4954; PHY 1610, 1620, 1080, 1090, 1120; GOV 2500; ANT 1010, 1020, 1030, 1120, 4820; PHI 3720, 3800, 3810.

The B.S. degree in environmental studies requires a minimum of nine laboratory courses and the completion of MTH 1210, 1220 or 1730 and 1740.

**Special Note for Double Majors**

Students with multiple majors, one of which is Environmental Studies, may not satisfy the elective portion of the environmental studies major sequence with courses also required in or being applied to the other major(s).

**Minor Sequences****Environmental Studies Minor  
15 credits**

ESP 1010, GEO 2001 and three additional courses from the list of approved environmental electives.

**Environmental Education Minor  
15 credits**

ESP 1010, GEO 2001, ESP 2150 and two additional courses from the list of approved environmental electives.

*Note: All 15 credits of the environmental studies minor courses must be from outside of the student's major courses. No overlap between major and minor courses are permitted.*

**Environmental Studies Program Course Offerings (ESP)****1010 Introduction to Ecological Principles**

Principles governing the relationships between organisms and their environment. Spatial and temporal organization of ecosystems and distribution of biotic communities are emphasized. *Credit: 3 semester hours.*

**1050 Natural History of Metropolitan New York (Mini-Course)**

Field trips to different natural areas in and around New York City to illustrate various principles of natural history study. Travel expense shared by all students. *Not open to students with advanced biology training. Not applicable to major or minor sequences. Credit: 3 semester hours.*

**1120 Human Ecology**

A study of the interrelationships between humanity, social and cultural evolution and the Earth. The nature and impacts of population growth, industry and technological progress are emphasized. *Field trips may be included. Credit: 3 semester hours.*

### 2110 The Coastal Environment

A systematic and regional analysis of the environmental problems caused by use and misuse of the coastal zone: estuaries, wetlands, saltmarshes, beaches, and alteration and pollution of these environments. *Credit: 3 semester hours.*

### 2150 Concepts and Practices of Environmental Education

*Prerequisite:* ESP 1010. A survey of the goals and fundamental concepts of environmental education with activities and techniques for integrating environmental education into the curriculum. *Field trips required. Credit: 3 semester hours.*

### 2160 American Environmental Politics and Policies

An analysis of the evolution of United States environmental policy and the influence of politics on those policies with particular emphasis on the late 20th century. *Credit: 3 semester hours.*

### 2170 Global Environmental Politics and Policies

An analysis of international concern for and policies dealing with global environmental issues. International treaties and accords as well as political differences between nations and groups of nations are emphasized. *Credit: 3 semester hours.*

### 2410 Pollution Analysis and Control

Survey of principal pollutants affecting natural systems; standard and experimental procedures for controlling pollution sources. *Required field trips to waste-handling facilities. Credit: 3 semester hours.*

### 2510 Aquatic Ecology

*Corequisite:* ESP 2511 *Laboratory*. Introduction to major ecological principles of freshwater and marine habitats; interrelationships among organisms; role of physical and chemical parameters at the population community and ecosystem level. *Field trips required. Lecture, 2 hours. Laboratory, 4 hours. Credit: 4 semester hours. Laboratory fee, \$60.*

### 3320 Resource Management

*Corequisite:* ESP 3321 *Laboratory*. An analysis of the goals, principles, methods and ecological measures currently employed by natural resource managers. *Lab and field work required. Field trips. Lecture, 2 hours. Laboratory, 4 hours. Credit: 4 semester hours. Laboratory fee, \$60.*

### 3490 Environmental Geology

*Prerequisite:* One year of university-level science courses. *Corequisite:* ESP 3491 *Laboratory*. An analysis of the relationships between human beings and the geological habitat. Geological hazards, the human being as a geological agent and the planning and management of natural earth systems. *Field trips. Lecture, 3 hours. Laboratory, 3 hours. Credit: 4 semester hours. Laboratory fee, \$60.*

### 4900 Environmental Studies Internship

*Prerequisite:* *Permission of the Director*. An internship program with a variety of environmentally-concerned public and private agencies; designed to present the practical side of environmental management. *Open to ESP majors only. Credit: 3-12 semester hours.*

### 4953; 4954 Research in Environmental Studies

*Restricted registration*. Selected environmental studies majors undertake guided research in the application of environmental principles and techniques in participating areas (anthropology, biology, chemistry, geography, government and mathematics). *Open to Seniors with a 3.0 GPA and approval of the ESP Director and area Department Chair. Credit: 3 semester hours.*

### 4990 Environmental Analysis Senior Seminar

*Prerequisite:* *Junior or senior standing*. An interdisciplinary, capstone seminar exploring the methods and current practices of analysis and problem solving in selected environmental fields and professions. *Credit: 3 semester hours.*

### Environmental Studies Faculty

William M. Nieter, *Director, Environmental Studies Program; Assistant Dean, B.A., M.A., CUNY, Queens College; M.S. Ed., Columbia University*

*Note: ESP courses are taught by the affiliated faculty of the various science and social science departments within the College.*

## Government and Politics (GOV)

### Major Sequences

#### Government and Politics

36 semester hours including: GOV 1010 and 1030; one elective in each of the following areas:

**International Relations:** GOV 1610, 2640, 2810, 3620, 3630, 3670;

**Comparative Government:** GOV 1700, 2650, 2660, 2690, 2730, 2750, 3680, 3710, 3720;

**Political Theory:** GOV 1250, 1260, 1270, 1280, and one Senior Seminar. In addition, majors must complete 18 elective hours in GOV courses. Students are permitted a maximum of six hours in fieldwork courses. Eligible seniors may choose six elective hours from 100-level graduate courses.

#### Public Administration and Public Service

36 semester hours including: GOV 1030, 1530, 3540, 4995; one elective in each of the following areas:

**International Relations:** GOV 1610, 2640, 3620, 3670;

**Comparative Government:** GOV 1700, 2650, 2660, 2690, 2730, 2750, 3680, 3710, 3720;

**Political Theory:** GOV 1250, 1260 and 1270/1280.

In addition, majors must complete 15 elective hours from GOV 2400, 2420, 2430, 2470, 2480, 2500, 2580, 2955, 3450, 3460, 3570, 3590. Students are permitted a maximum of six hours in public administration fieldwork courses. Eligible seniors may also choose six elective hours from 100-level graduate courses.

### Special Note for Double Majors

*Students may major in both government and politics and public administration and public service. A maximum of six semester hours may be used to satisfy requirements in both majors. Thus, a double major has to complete a minimum of 66 semester hours. A double major is required to complete two courses in International Relations, Comparative Government and Political Theory. A double major must also complete GOV 4995 and another seminar.*

### B.A./M.A.

Students accepted into the five-year B.A./M.A. program in government and politics complete a total of 57 semester hours in GOV courses. On the undergraduate level, requirements include GOV 1010, 1030; one course in each area: comparative government, international relations, and political theory; a seminar; and six elective credits (24 credits). Students must also complete two 100-level graduate courses during the junior year and two upper level graduate courses during the senior year, for a total of 12 graduate credits. Students complete the program with 21 credits of graduate GOV courses. Eligibility requires a 3.0 overall cumulative index and a 3.5 index in government and politics. For specific master's degree program requirements, consult the St. John's University Graduate Bulletin.

### Other Combined Degree Programs

The Department of Government and Politics also offers a number of undergraduate-graduate combined degrees with the College of Professional Studies, including B.S./M.A. programs in communication arts, criminal justice, health care administration, journalism and paralegal studies. For specific master's degree program requirements, consult the St. John's University Graduate Bulletin.

### Minor Sequences

#### Government and Politics

- For all students except public administration and public service majors: any 18 semester hours in GOV.
- For public administration and public service majors: any 18 semester hours in GOV not utilized for the major.
- For The Peter J. Tobin College of Business students: 18 semester hours including:
  - GOV 1030, ECO 1326 or MGT 3301;
  - One course in American government from: GOV 2400, 2470, 2480, 2500, 2510, 2950, 2955, 3450, 3460, 3590;
  - One course in international relations from: GOV 1610, 2640, 2810, 3620, 3630, 3670;
  - One course in comparative government from: GOV 2650, 2660, 2690, 2730, 2750, 3680, 3710, 3720;

5. One course in political theory from: GOV 1250, 1260, 1270, 1280;
6. To complete this minor, students apply their GOV courses to six credits in social science electives, three liberal arts credits and six general elective credits.

*Note: Students, other than public administration and public service majors, who are interested in pursuing an M.A. in government and politics at St. John's University should take GOV 1010 and GOV 1030; one course in each of the following areas: international relations, comparative politics, and political theory; and one elective GOV course.*

## Public Administration and Public Service

- A. For all students except government and politics majors: 15 semester hours including GOV 1030 and 1530, and three of the following: GOV 2400, 2470, 2480, 2500, 2955, 3450, 3460, 3540, 4913.
- B. For government and politics majors: 15 semester hours including GOV 1530 and 3540, and three of the following: GOV 2400, 2470, 2480, 2500, 2955, 3450, 3460, 4923.

*Note: None of the GOV courses may be used for both the major and minor sequences.*

## Government and Politics Course Offerings (GOV)

### 1010 Contemporary Government and Politics

Introduction to the nature and scope of politics. Approaches to the analysis of political behavior and thinking. Major issues and conflicts in the contemporary world. *Credit: 3 semester hours.*

### 1030 American National Government

The nature of United States federalism; the structure and work of the national government; the executive branch; the Congress and executive-legislative relationship; the federal judiciary with reference to appropriate constitutional cases and the departments and administrative establishment. *Credit: 3 semester hours.*

### 1250 Western Political Thought I: Classical and Medieval

A survey of great thinkers and movements from the classical period to St. Thomas. *Credit: 3 semester hours.*

### 1260 Western Political Thought II: Early Modern

A survey of great thinkers and movements from the late medieval period to the Enlightenment and the French Revolution. *Credit: 3 semester hours.*

### 1270 Western Political Thought III: Recent and Contemporary

Major topics include Hegel, Marxism-Leninism, Fascism, Socialism, democracy, nationalism and Elitism. *Credit: 3 semester hours.*

### 1280 Feminism and Politics

Designed for students with experience and interest in political theory. This course surveys recent feminist contributions to political theory, emphasizing both the range of feminist views and the basis for commonality. *Credit: 3 semester hours.*

### 1530 Introduction to Public Administration

Prerequisite: GOV 1030. The process of government organization, administration, and management; current problems and trends; administrative-political relationships. *Credit: 3 semester hours.*

### 1610 International Relations

The legal and political principles underlying the modern state system; foreign policies of the major powers; fundamental factors and problems in international politics; development of international organizations and cooperation. *Credit: 3 semester hours.*

### 1700 Comparative Political Systems

The methodology of comparative analysis, of belief systems and the concept of political culture, party and pressure-group systems in Western European, Communist and developing countries; patterns of political change. *Credit: 3 semester hours.*

### 2160 American Environmental Politics and Policies

An analysis of the evolution of the United States environmental policy and the influence of politics on those policies with particular emphasis on the late 20th century. *Credit: 3 semester hours.*

### 2170 Global Environmental Politics and Policies

An analysis of the growth of international concern for and policies dealing with global environmental issues. International treaties and accords as well as political differences between nations and groups of nations are emphasized. *Credit: 3 semester hours.*

### 2240 The Federalist Papers

Prerequisite: GOV 1030. This course examines the series of pamphlets, commonly known as the Federalist Papers, written by Alexander Hamilton, James Madison and John Jay. *Credit: 3 semester hours.*

### 2300 Roots of Modern Ideologies

Prerequisite for non-majors: Permission of the instructor. An examination of the interrelationship of certain social, theological and philosophic concepts and their effect on past and present political orders. *Credit: 3 semester hours.*

### 2400 Introduction of the Study of Law

A critical survey and analysis of materials dealing with legal methodology relevant to the study of law. Readings and discussion of leading legal essays and opinions. *Credit: 3 semester hours.*

### 2420 Congress: Politics and Policy

Congress as part of the policy-making process in the U.S.; the powers of Congress, legislative and non-legislative; organization of the House and Senate; the relationship of the Congress with the executive and the courts; party politics in the legislative process; contemporary legislative problems. *Credit: 3 semester hours.*

### 2430 The American Presidency

The evolution of the American presidency; the roles played by the chief executive; the various concepts of the office; the president's position in the American system and his relationship with Congress and the courts; the vice-presidency, presidential tenure and disability. *Credit: 3 Semester hours.*

### 2470 State and Local Government and Administration

Prerequisite: GOV 1030. The effects of intergovernmental aid programs; party and interest-group organization; county governments; representative state constitutions; legislatures, governors and administrative agencies; financing state programs; special reference to New York State. *Credit: 3 semester hours.*

### 2480 Municipal Government and Administration

Prerequisite: GOV 1030. Legal, political and socioeconomic influences on urban politics; the evolution from machine to reform administration; neighborhood organization; different systems of urban governance; the urban bureaucracy; municipal budgeting; land-use in the city; special reference to New York City. *Credit: 3 semester hours.*

### 2490 Law Politics and the Individual

Evolution of the laws as a result of the historical, social, political, and economic processes; special emphasis on contemporary American law affecting everyday life. *Credit: 3 semester hours.*

### 2500 Environmental and Public Law

Prerequisite: GOV 1030. The political issues surrounding environmental regulation, with an emphasis on bureaucratic and judicial administration of federal legislation governing air, water and land-use. *Credit: 3 semester hours.*

### 2510 American Political Parties and Interest Groups

The nature and operation of the political process in the United States; organization and function of the political parties; nominations and elections; voting behavior; the nature of the two-party system; effects of social, economic and cultural forces upon party government; the dynamics of political power. *Credit: 3 semester hours.*

### 2520 Politics of Environment and Development

*Credit: 3 semester hours.*

### 2580 Judicial Process and Behavior

Evaluation of the operation of the American legal system at the national and state levels. *Credit: 3 semester hours.*

### 2600 Roman Law and Society

A study of the society and institutions of ancient Rome as revealed in Roman law. *No knowledge of classical languages is required. Credit: 3 semester hours.*

### 2640 Foreign Policy of the United States

The origin, development and application of the major principles controlling American foreign relations. *Credit: 3 semester hours.*

### **2650 Government and Politics of Western Europe**

Comparison of the political institutions of Great Britain, France, Germany and Italy; political traditions, constitutional principles, political parties and contemporary political problems. *Credit: 3 semester hours.*

### **2660 Government and Politics of Eastern Europe**

The transformation of political institutions of Eastern Europe from communist societies to the fledgling democracies; economics, social and cultural relations among the new governments of Eastern Europe. *Credit: 3 semester hours.*

### **2690 Government and Politics of Latin America**

The origin, structures and functions of Latin American governments. *Credit: 3 semester hours.*

### **2730 Russia and the CIS Republics**

This course focuses on the republics comprising the former Soviet Union. The current economic and political systems of Russia and of the other CIS republics are emphasized. *Credit: 3 semester hours.*

### **2750 Politics of the Caribbean Area**

A study of the political development of the Caribbean area, emphasizing the nations of Cuba, Haiti, the Dominican Republic and Jamaica. Special attention is also given to the patterns of colonial control, the unique position of Puerto Rico and attempted alliance and confederation. *Credit: 3 semester hours.*

### **2760 The Politics of Puerto Rico**

An analysis of the government and politics of the Commonwealth of Puerto Rico; political traditions, the issue of political status and Puerto Rico's relationship with the United States and current political conditions and problems. *Credit: 3 semester hours.*

### **2810 The Politics of War**

The causes of war, with emphasis on the twentieth century; legal and cultural aspects of war; prediction and control of war. *Credit: 3 semester hours.*

### **2950 Workshop on Political Campaigning (Mini-Course)**

The application of principles of campaigning during a simulated election campaign; roles of citizen and party candidate selection, campaign organization, funding, election day and post-elective activities. *Credit: 3 semester hours.*

### **2955 Management Tools in Public Administration Decision Making and Leadership (Mini-Course)**

Students use case studies, engage in interpersonal communication skill building and participate in small decision-making groups. *Credit: 3 semester hours.*

### **3200 The Political Image Through Literature**

An examination of the political values and ideas of principal writers of the Western tradition. Selected works of political drama from the classical, Renaissance and modern periods are analyzed and discussed with a view to the problems of political theory and political action presented. *Credit: 3 semester hours.*

### **3290 The Politics of Revolution**

Empirical theories of revolution through the reading and analysis of major theoretic attempts to delineate the causes, development, and effects of revolution, with examples of revolutions in world history from the classical period to the present. *Credit: 3 semester hours.*

### **3320 Current Terrorist Movements**

An analysis and evaluation of the ideologies, strategies and tactics of the leading revolutionary movements in the world today. An analysis and evaluation of the counter-revolutionary measures commonly used by governments. *Credit: 3 semester hours.*

### **3330 American Political Thought in the 19th and 20th Centuries**

The nature and purpose of the state as expressed by selected writers from colonial times to the Populist Era. *Credit: 3 semester hours.*

### **3450; 3460 Constitutional Law**

*Prerequisite:* GOV 1030. A study of the United States Constitution, by the case method, through examination of leading decisions of the U.S. Supreme Court. *Credit: 3 semester hours.*

### **3520 Public Opinion and political systems**

The process of opinion formation; role of public opinion in politics; propaganda and public relations; measurement of public opinion; role of pressure groups; public opinion and current political issues. *Credit: 3 semester hours.*

### **3540 Research Methods in Political Science and Public Administration**

*Prerequisite:* GOV 1530. An examination of problem definition, developing concepts and variables, hypothesis testing and the use of quantitative techniques in public administration and political science. Emphasis is placed on critical evaluation of academic research and professional reports. *Credit: 3 semester hours.*

### **3570 Comparative Law**

A critical inquiry into the origins, sources and formation of the three major legal traditions: common law, civil law and socialist law. Analysis of selected substantive topics in a comparative setting. *Credit: 3 semester hours.*

### **3590 The American Government and Business Relationship**

The relationship of government and business emphasizing industries with seller concentration and their market conduct. Consideration of selected activities and industries: agriculture, inventions and patents, banking and finance, public utilities, and the shaping of public policy. *Credit: 3 semester hours.*

### **3620 International Law**

The nature and scope of international law; the organization of the community of nations; selected substantive roles of international law. *Credit: 3 semester hours.*

### **3630 Foreign Policy of the Major Powers**

Fundamental factors influencing the international political behavior of the major powers in world affairs. *Credit: 3 semester hours.*

### **3670 International Political Economy**

Theoretical and empirical relationships between politics and economics at the international level. The course focuses on regional economic cooperation, trade issues, international monetary policies and North-South differences. *Credit: 3 semester hours.*

### **3680 Politics of Africa**

The dynamics of the societies in transition in the developing nations of Africa; analysis of their evolution from colonial dependency and traditional tribal units into modern nation-state systems. *Credit: 3 semester hours.*

### **3710 Governments and Politics of the Far East**

The political and institutional developments in the states of the Far East, with major emphasis on China, Japan and Korea; their political backgrounds and present foreign relations. *Credit: 3 semester hours.*

### **3720 Governments and Politics of South and Southeast Asia**

The political and institutional developments of South Asia, emphasizing India, Pakistan, Bangladesh, Sri Lanka and those of Southeast Asia, emphasizing Vietnam, Indonesia and the Philippines. *Credit: 3 semester hours.*

### **3800 American Econopolitics**

The role of economics in domestic and foreign politics, with special attention to recent developments; political consequences of economic growth; public and government policy in prosperity and recession. *Credit: 3 semester hours.*

### **3820 Politics of the Middle East**

Historical development of the Middle East in politics, economics and political thought. Political institutions in the Maghrib; Zionism; the Palestinian question; the politics of oil. *Credit: 3 semester hours.*

### **3850 Politics of Developing Countries**

The politics of developing countries with a focus on the political economy of development to issues of globalization, national integration, social conflict, the role of the state, civil society and democratization. *Credit: 3 semester hours.*

### **4903; 4906 Legislative Politics Internship Program**

*Prerequisite:* Permission of the coordinator. An internship program in the office of a city, state or national legislator or legislative committee. Periodic consultation with the internship coordinator is required. *Credit: 3 or 6 hours per semester.*

### **4913; 4916 Field Work in American Politics**

*Prerequisite:* Permission of the coordinator. An internship program in the field of American politics ranging from campaign work to legal process. Periodic consultation with the internship coordinator is required. *Credit: 3 or 6 hours per semester.*

### **4923; 4926 Field Work in Public Administration**

*Prerequisite:* Permission of the coordinator. An internship program in a federal, state, or local government office or with a not-for-profit group. Periodic consultation with the internship coordinator is required. *Credit: 3 or 6 hours per semester.*

### **4933; 4936 Public Administration Internship**

*Prerequisite:* Permission of the coordinator. An internship program with officials from international organizations. Periodic consultation with the internship coordinator is required. *Credit: 3 or 6 hours per semester.*

**4946 New York State Legislative Internship Program Academic Component**

*Corequisite:* GOV 4949, permission of University liaison and acceptance to New York State Senate or Assembly Internship Program. Comprehensive orientation, classroom lectures, classroom discussion sections, tests, written assignments, a research paper, issue forums and a mock legislative session.  
*Credit:* 6 semester hours.

**4949 New York State Legislative Internship Program Experiential Component**

*Corequisite:* GOV 4946, permission of University liaison, and acceptance to New York State Senate or Assembly Internship Program. Students serve in Albany, New York, under supervision of the Senate or Assembly Internship Director. *Credit:* 9 semester hours.

**4963 Model UN I**

*Prerequisite:* Open to juniors and seniors with three credits in GOV coursework and permission of the instructor. This course prepares students for national and regional United Nations simulation games. Students act as U.N. delegates and negotiate resolutions and treaties with other student delegates. They learn about U.N. diplomacy, parliamentary procedures, and the countries they represent. Students are expected to complete GOV 4964. *Credit:* 3 semester hours. Every fall.

**4964 Model UN II**

*Prerequisite:* GOV 4963. As a follow-up to GOV 4953, this course completes student readiness for the simulation game and includes a trip to the Model U.N. conference where they negotiate and adopt resolutions and treaties with other student delegates. *Credit:* 3 semester hours. Every spring.

**4990 Reading and Research**

*Prerequisite:* nine semester hours in GOV. Open to juniors and seniors only. Departmental approval required. Guided research and reading on an individual basis. Students must submit to the Department Chair, in writing and prior to registration, an outline of the subject areas to be researched or read, together with written acceptance of the project by a faculty member of their choice. *Credit:* 3 semester hours.

**Senior Seminars**

Limited to Government majors in their senior year. Juniors with 15 credits in Government may be enrolled with permission of the Chair. Readings, reports and discussions on topics of student interest, under supervision of the faculty member. Enrollment is in one of six sections below, but majors may take more than one seminar. *Credit:* 3 semester hours.

**4991 Seminar in American Government**

*Prerequisite:* At least six credits from among: GOV 1030, 1530, 2400, 2420, 2430, 2470, 2480, 2490, 2500, 2510, 2640, 2950, 3450, 3460, 4933, 4936, 2580, 3590, 2760, 3800. *Credit:* 3 semester hours.

**4992 Seminar in International Relations**

*Prerequisite:* GOV 1610 and at least three credits from among: 1610, 2640, 2650, 2660, 2690, 2750, 2810, 3620, 3630, 3710, 3720, 3820. *Credit:* 3 semester hours.

**4993 Seminar in Comparative Government**

*Prerequisite:* At least six credits from among: 1700, 2650, 2660, 2690, 2750, 3680, 3710, 3720. *Credit:* 3 semester hours.

**4994 Seminar in Political Theory**

*Prerequisite:* At least six credits from among: 1207, 1250, 1260, 2300, 3330. *Credit:* 3 semester hours.

**4995 Seminar in Public Administration**

*Prerequisite:* At least six credits from among: 1030, 1530, 2160, 2170, 2440, 2470, 2480, 2500, 2510, 2580, 2590, 2955, 3540. *Credit:* 3 semester hours.

**4996 Seminar in Contemporary Issues in Constitutional Law**

*Prerequisite:* At least six credits from among: 2400, 2450, 2460, 2490, 2500, 2580. *Credit:* 3 semester hours.

*Note:* Consult with the department chair to determine the availability of the courses listed above.

**History (HIS)/Geography (GEO)****Major Sequence—History**

36 semester hours including: HIS 1010 and 1000C, six credits in U.S. history, six credits in European history, six credits in non-Western history, a three-credit seminar or colloquium in junior or senior year, and nine elective hours in courses offered by the Department.

**B.A./M.A.**

Students admitted to the accelerated B.A./M.A. Program in History take as their major sequence in History for their baccalaureate 36-39 semester hours including HIS 1010 and 1000C, six credits in U.S. history, six credits in European history, one seminar or colloquium, one undergraduate elective in history, plus a minimum of four, up to a maximum of five graduate-level history courses (one of which must be HIS 401 taken during the senior year). Eligibility requires a 3.0 overall cumulative index and a 3.5 index in history. For additional requirements for the master's degree, students should consult the St. John's University Graduate Bulletin.

**Minor Sequence—History**

18 semester hours in history including HIS 1010, 1000C and one colloquium or seminar, but excluding HIS 1301 and 1302.

**Major Sequence—Social Studies**

36 credits, including HIS 1010 and 1000C, six credits in U.S. history, six credits in European history, six credits in non-Western history and one course each from economics, geography, government and sociology. (Available on Staten Island campus only.)

**History Course Offerings (HIS)****1000-Level: Surveys****1000C Emergence of a Global Society**

The global dissemination of the scientific, technological and industrial revolutions and the spread of world religions, democracy and internationalism lead to the emergence of modern society. The impact of Western cultural, economic and technical domination and globalization as a historical force are explored. *Credit:* 3 semester hours.

**1010 World History I**

A topical approach to the forces and events that have shaped the modern world, including the ancient Middle East and China, the foundations of Western civilization and Christianity, the impact of Islam, the civilizations of Africa and the Americas, and the new learning and secularism of the Renaissance, the Age of Exploration and the Wars of Religion. *Credit:* 3 semester hours.

**1300 Great Issues in American History**

Significant political and social problems and controversies in the United States from the achievement of independence to the 1960s. Students may not take HIS 1301 or 1302 in conjunction with or after completion of HIS 1300. *Credit:* 3 semester hours.

**1301 U.S. from Colonial Times to the Civil War**

A survey of the main political, economic, social and religious developments from the Peace of Paris to the Civil War. Students may not take HIS 1300 in conjunction with or after completion of HIS 1301. *Credit:* 3 semester hours.

**1302 U.S. from Civil War to the Present**

A survey of the main political, economic, social and religious developments from the Civil War to the present. Students may not take HIS 1300 in conjunction with or after completion of HIS 1302. *Credit:* 3 semester hours.

**2000-Level: Major courses, Surveys and Chronological Courses****Ancient History****2001 Early Ancient Civilizations**

Human society at the dawn of civilization; formation and development of ancient Mesopotamian, Egyptian, Hebraic and other pre-Hellenic civilizations. *Credit:* 3 semester hours.

**2002 Ancient Greek and Roman Civilizations**

A course on the growth and development of ancient Greece, the Hellenic culture, and the Roman Republic and Empire. *Credit:* 3 semester hours.

## Non-Western Surveys

### 2300 History of Africa

History of the continent from earliest times to the present; pre-history, Mediterranean, Arabic, European and contemporary re-Africanization; the problem of developing history from both oral and written sources. *Students may not take HIS 2301 or 2302 in conjunction with or after completion of HIS 2300.* Credit: 3 semester hours.

### 2301 Africa in the Colonial Period

The impact of Islamic and European cultures in the colonial period. The Industrial Revolution, and the expansion of Europe into Africa. Detailed analyses of Belgian, British, French, German and Italian imperialism. *Students may not take HIS 2300 in conjunction with or after completion of HIS 2301.* Credit: 3 semester hours.

### 2302 Contemporary Africa

The African reaction to slavery, colonialism, the birth of nationalism, and the dismemberment of the colonial empires. Problems of nation-building and development in the newly-independent states of Africa. *Students may not take HIS 2300 in conjunction with or after completion of HIS 2302.* Credit: 3 semester hours.

### 2310 History of Asia

The historical and cultural background of Eastern civilization to the mid-19th century; subsequent developments of power rivalries, westernization and nationalization; problems of the contemporary Far East. *Students may not take HIS 2311 or 2312 in conjunction with or after completion of HIS 2310.* Credit: 3 semester hours.

### 2311 History of East Asia

The political, intellectual, cultural, social and economic developments of China and Japan from ancient times to 1900. *Students may not take HIS 2310 in conjunction with or after completion of HIS 2311.* Credit: 3 semester hours.

### 2312 History of Modern East Asia

The forces and events that have shaped 20th century China, Japan and Korea, such as efforts at modernization, the emergence of nationalism, imperialism, Communism and the problems of the contemporary period. *Students may not take HIS 2310 in conjunction with or after completion of HIS 2312.* Credit: 3 semester hours.

### 2320 The Middle East

Environmental, economic, social and cultural forces that shaped the modern Middle East with emphasis on impact of Ottoman and Western imperialism, Arab-Israeli conflict and the Islamic Revolution. Credit: 3 semester hours.

### 2330 History of Latin America

A survey of the political, intellectual, cultural, social and economic developments that have shaped the history of Latin America from the earliest European discoveries of the Caribbean islands, Central and Southern America and the origins and existence of various Native American civilizations to their contemporary state of domestic and foreign affairs in the 20th century. *Students may not take HIS 2331 or 2332 in conjunction with or after completion of HIS 2330.* Credit: 3 semester hours.

### 2331 History of Latin America I

Pre-Columbian background; European discovery and colonization, plantation life, the role of the Church, and the independence movements. *Students may not take HIS 2330 in conjunction with or after completion of HIS 2331.* Credit: 3 semester hours.

### 2332 History of Latin America II

Independence from Spain; economic, cultural, religious and political struggles; the caudillos; the relationship with U.S.; Castro era. *Students may not take HIS 2330 in conjunction with or after completion of HIS 2332.* Credit: 3 semester hours.

## European Surveys

### 2500 Europe in Medieval Times

The decline of Rome; the rise of the Christian church; the Carolingian era; the evolution of feudalism; the Crusades, the growth of commerce and town life; the rise of feudal monarchies. *Students may not take HIS 2501 or 2502 in conjunction with or upon completion of HIS 2500.* Credit: 3 semester hours.

### 2501 Early Medieval History

The emergence of medieval European civilization out of Judeo-Christian, Greco-Roman and Germanic institutions and ideas from the decline of the Roman Empire to the 11th century. *Students may not take HIS 2500 in conjunction with or after completion of HIS 2501.* Credit: 3 semester hours.

### 2502 Late Medieval Europe

The economic, political, intellectual and religious developments in Europe from the 12th to the 15th centuries. *Students may not take HIS 2500 in conjunction with or after completion of HIS 2502.* Credit: 3 semester hours.

### 2510 Europe: Renaissance to Reformation

The revival of the classical spirit and the growth of vernacular literatures; the evolution of modern statecraft and diplomacy; the revolt of Martin Luther; Calvinism, the Anglican Reformation, the Counter-Reformation; the Spanish hegemony and the Thirty Years' War. *Students may not take HIS 2510 in conjunction with or after completion of HIS 2511 or 2512.* Credit: 3 semester hours.

### 2511 Renaissance and Reconnaissance

The transition from medieval to modern Europe; the new spirit of humanism; the expansion of Europe; the new monarchies and dynastic diplomacy; the dissolution of Christendom. *Students may not take HIS 2511 in conjunction with or after completion of HIS 2510.* Credit: 3 semester hours.

### 2512 Reformation and Counter-Reformation

A course which focuses on the Protestant revolt, the Catholic response; the hegemony of Spain, the expansion of England and the revival of France, and the Thirty Years' War. *Students may not take HIS 2512 in conjunction with or after completion of HIS 2510.* Credit: 3 semester hours.

### 2520 The Age of Absolutism

Louis XIV and Divine Right monarchy; the rise of Prussia and Russia; colonial rivalries; the exaltation of science and reason; the nature of the Old Regime; enlightened despotism. Credit: 3 semester hours.

### 2530 Europe in the Nineteenth Century

The Napoleonic Era: the Vienna settlement and the Concert of Europe; the Industrial Revolution; Nationalism; liberalism, conservatism and Socialism as forces in European life; the Revolution of 1848; the unification of Italy and Germany; the New Imperialism. *Students may not take HIS 2530 in conjunction with or after completion of HIS 2531, 2532, or 2533.* Credit: 3 semester hours.

### 2531 The Age of Revolution

The collapse of the Old Regime; France, from Revolution to Empire; the European Revolution; Napoleon and the reconstruction of Europe. *Students may not take HIS 2531 in conjunction with or after completion of HIS 2530.* Credit: 3 semester hours.

### 2532 Europe in an Age of Nationalism, 1815–70

The Restoration era and the Concert of Europe; liberalism and conservatism in conflict; the emergence of nationalism, the revolutions of 1848 and the collapse of the Metternichian system; the Crimean War and the disruption of the conservative alliance; the triumph of nationalism in Italy and Germany. *Students may not take HIS 2532 in conjunction with or after completion of HIS 2530.* Credit: 3 semester hours.

### 2533 Europe at its Zenith, 1870–1914

Institutions, ideologies and developments in the German Empire; the Third French Republic; the Italian Kingdom, and the Hapsburg Monarchy; international relations in Europe and the development of the new imperialism and imperial rivalries, the breakdown in the balance of power and the coming of WWI. *Students may not take HIS 2533 in conjunction with or after completion of HIS 2530.* Credit: 3 semester hours.

### 2540 Europe and the Twentieth Century World

International relations, 1900 to 1914; WWI; the Russian Revolutions; Post-WWI Europe; the rise of Fascist dictatorship; WWII; the Cold War and international power blocs. *Students may not take HIS 2540 in conjunction with or after completion of HIS 2541 or 2542.* Credit: 3 semester hours.

### 2541 Europe: World War I, Hitler and Stalin

The outbreak of WWI and the impact upon the European state system; United States enters the War and European affairs; Russian Revolution and the disintegration of the Hapsburg Monarchy; the Fascist coup in Italy and the emergence of revisionism in Central Europe; the troubled 1920s and the search for security by pact and international cooperation; the onset of the Depression and economic and political instability. *Students may not take HIS 2541 in conjunction with or after completion of HIS 2540.* Credit: 3 semester hours.

### 2542 Europe from World War II to the Present

The effect of the Depression upon the democracies and Fascist Italy; death of the Weimar Republic and the emergence of Nazi Germany; the Ethiopian crisis and the coming together of Mussolini's Italy and the Third Reich; Fascist cooperation in the Spanish Civil War; Fascist aggression and Western

appeasement; WWII; defeat of the Axis and the destruction of European primacy; the division of Europe; the Cold War; the fall of Communism; and issues in contemporary Europe. *Students may not take HIS 2542 in conjunction with or after completion of HIS 2540. Credit: 3 semester hours.*

### American Surveys

#### 2700 U.S.: Colonial America

The European background; the transplanting of European institutions to the New World; internal development of the colonies; imperial rivalries; evolution of the colonial political system; the coming of the Revolution. *Credit: 3 semester hours.*

#### 2710 U.S.: The Early National Period

Major developments of the political, economic and social history of the United States from the Revolutionary War to the War with Mexico. *Students may not take HIS 2710 in conjunction with or after completion of HIS 2711 or 2712. Credit: 3 semester hours.*

#### 2711 U.S.: The Revolutionary Age

The progress and outcome of the War for Independence; the Confederation Period; the making of the Constitution; the Federalist Era. *Students may not take HIS 2711 in conjunction with or after completion of HIS 2710. Credit: 3 semester hours.*

#### 2712 U.S.: Jeffersonian and Jacksonian Periods

This course studies the Jeffersonian and Jacksonian Ages. It was a period when the U.S. from the years 1800 to 1860 transformed itself into a formidable power through the acceleration of the demographic character of the nation from a rural agrarian to an urban industrial economy. The Market Revolution modernized the U.S. In that process, tensions surfaced between the traditional agrarian South and its more dynamic industrial counterpart in the North. *Students may not take HIS 2712 in conjunction with or after completion of HIS 2710. Credit: 3 semester hours.*

#### 2720 U.S.: Civil War and Reconstruction

Political, economic, social and military problems facing the U.S. during the Civil War and Reconstruction. *Credit: 3 semester hours.*

#### 2730 U.S.: The Gilded Age

The technological, industrial and organizational changes affecting the United States in the last quarter of the nineteenth century; the impact of these changes on the economic, social and political life of the times; the achievements and abuses of Capitalism, growth of organized labor and the emergence of Populism. *Credit: 3 semester hours.*

#### 2740 U.S.: The Age of Reform

The Age of Reform and empire; problems of neutrality and Wilsonian leadership; WWI; economic expansion and collapse; the Roosevelt era. *Credit: 3 semester hours.*

#### 2750 U.S.: World War II and Post-War America

The U.S. and WWII; the Truman reforms; origins of the Cold War; the Eisenhower years; the 60s; Vietnam and domestic turmoil; Watergate and after. *Credit: 3 semester hours.*

## 3000-Level: Topics Courses and Country Courses

### Global and Comparative History Topics

#### 3100 America Meets China

A historical look at the encounter between the U.S. and China from 1785 to the present, as prologue to uniquely American forms of globalism and multiculturalism today. *Credit: 3 semester hours.*

#### 3110 The Papacy Confronts the Modern World

The papacy from the age of revolutions to the present, examining its reaction within the broader framework of religious, political, social and economic developments from Pius VI to John Paul II. *Credits: 3 semester hours.*

#### 3120 The History of Racism in the West Since 1500

The history of racism in Europe and the Americas including racist theories, slavery and its legacy, anti-Semitism, the Holocaust and debates on race and ethnicity. *Credit: 3 semester hours.*

#### 3130 Personalities in History

Prerequisite: HIS 1001, 1002, or 1300, or permission of instructor. Readings and discussion of select biographical studies of significant personalities in history. *Credit: 3 semester hours.*

#### 3140 History of Sexuality

The history of sexuality as it relates to comparative world history. Students analyze how sexuality problematizes the interpretation of historical events, personalities and themes, including colonization, nationhood, war, medicine and social movements. *Credit: 3 semester hours.*

#### 3150 History of Inter-American Relations

Readings and research on the relationship between the United States and Latin America from the 19th century to the present. Emphasis on the economic integration of the region, the rise of revolution, the question of democracy and more recent issues such as immigration and the drug trade. *Credit: 3 semester hours.*

### Non-Western History: Topics and Countries

#### 3301 History of Mexico

This course examines the history of Mexico from its earliest civilizations to the present day through lectures and readings and the use of photographs, material evidence, biography, literature and film. *Credit: 3 semester hours.*

#### 3300 Women in Latin American History

An analytical study of the social, cultural, political and economic importance of women in the historical development of Latin America during the 19th and 20th centuries. *Credit: 3 semester hours.*

#### 3310 History of Japan

A survey of the political, intellectual, cultural, social and economic developments that have shaped the history of Japan from its earliest historical beginnings to its role in twentieth century world affairs. *Credit: 3 semester hours.*

#### 3340 Asian Pacific Diasporas in Modern History

A historical survey of the experiences, identities and cultural transitions of diasporas of peoples of East, South and Southeast Asian and Pacific ancestry. *Credit: 3 semester hours.*

#### 3350 The History of Ancient and Medieval China

Chinese history from ancient times to the 19th-century, covering the great traditions (Confucian, Taoist, Buddhist and Literati-Bureaucratic) and the lore and legends of the folk (from the meditative to the apocalyptic). *Credit: 3 semester hours.*

#### 3360 The History of Modern China

Tragedies and triumphs of China in the modern world: the fall of the Manchu Empire, warlordism, WWII, civil war, the Communist Revolution, Maoism, the recent economic miracle and strategic choices for the future. *Credit: 3 semester hours.*

#### 3365 History of China and Korea Through Literature and Film

The modern social, intellectual and cultural history of China and Korea, as reflected in their literary texts and visual media from 1900 to the present. *Credit: 3 semester hours.*

#### 3370 Modern Wars in Asia

Modern wars in Asia: World War II, the Cold War, Korea, Vietnam and subsequent conflicts. Emphasis is on causes, aftermaths and "history and memory." *Credit: 3 semester hours.*

#### 3400 African Civilizations and the African Diaspora

Explores major African civilizations before the 19th century, including ancient Egypt, the Mali Empire and Great Zimbabwe. Includes the African Diaspora to the new world. *Credit: 3 semester hours.*

#### 3410 African Nationalism

Africa's involvement in the Atlantic world from the 15th through the 19th centuries, focusing on the slave trade and transformations of African economies and societies. *Credit: 3 semester hours.*

### European History: Topics and Countries

#### 3501 Diplomatic History of Europe I

Reconstruction of Europe; Congress of Vienna; Metternich; German and Italian unifications; diplomacy of World War I and Versailles. *Credit: 3 semester hours.*

#### 3502 Diplomatic History of Europe II

Peacemaking in 1919 and its consequences; League of Nations; diplomacy of World War II and peace; superpowers and the Cold War. *Credit: 3 semester hours.*

#### 3511 History of England I

A survey of English history from the Roman invasion to the early Stuarts, with emphasis on constitutional developments, and on changing political, economic, social and religious conditions. *Credit: 3 semester hours.*

### **3512 History of England II**

A survey of English history from the late Stuarts to the 20th century. Emphasis is placed on the development of party politics, the Industrial Revolution, imperial expansion, foreign policy and the twentieth century welfare state. *Credit: 3 semester hours.*

### **3521 The Rise of Modern Germany**

Germany and the French Revolution, Austria and the Metternichian System, the unification struggle; the Second Reich. *Credit: 3 semester hours.*

### **3522 Germany in the Twentieth Century**

The First World War and its consequences; the Weimar Republic, the Third Reich; defeat and recovery. *Credit: 3 semester hours.*

### **3530 History of Ireland**

A survey of Irish history from its Celtic origins to the twentieth century, with emphasis on the religious, cultural, political, social and economic forces which have been most influential in shaping modern Ireland. *Credit: 3 semester hours.*

### **3540 Modern Italian History**

Intellectual, religious, economic and political developments in the Italian peninsula from the Risorgimento to the post-World War II era. *Students may not take HIS 3540 in conjunction with or after completion of HIS 3541 or 3542. Credit: 3 semester hours.*

### **3541 The Risorgimento: United Italy in the Nineteenth Century**

Italian Nationalism, Carbonarism; Mazzini and Young Italy, Cavour and the Unitary State, the Risorgimento and the Counter-Risorgimento. *Students may not take HIS 3541 in conjunction with or after completion of HIS 3540. Credit: 3 semester hours.*

### **3542 Modern Italy: The Transition from Liberalism to Fascism**

The domestic and diplomatic policies of the Kingdom of Italy, the North-South conflict and emergence of an industrial base, the first World War and the crisis of Italian liberalism, Fascism, the Axis, the collapse of Mussolini's Italy. *Students may not take HIS 3542 in conjunction with or after completion of HIS 3540. Credit: 3 semester hours.*

### **3550 Soldiers and the State in Modern Europe**

The influence of the military on national policy, public institutions and popular culture since the Napoleonic era. *Credit: 3 semester hours.*

### **3562 Women in Modern Europe**

Changes since 1800 in women's work, role in the family, sexuality, education, political rights. Feminist and anti-feminist ideologies. Women in war, revolution, fascism and Communism. *Credit: 3 semester hours.*

### **3570 The Irish Abroad**

A comparative analysis of Irish emigration including motivation for the flight of the "Wild Geese" in the 17th century, the famine forced flights in the 18th and 19th centuries, and the "brain drain" in the 20th century. *Credit: 3 semester hours.*

### **3580 Wars of Empire (Mini-Course)**

*Prerequisite:* HIS 1010. Examines the rise and fall of modern imperialism, 1870–1970, focusing on the conflict between Western colonialism and non-Western nationalism. *Credit: 3 semester hours.*

### **Russian and Soviet History: Topics and Countries**

#### **3650 Russia, the Soviet Union and the Soviet Successor States**

A history of the peoples of the former Soviet Union from the time of Kievan Russia through the rise of Muscovy and Imperial Russia to the Communist Revolution and post-Cold War present. *Students may not take HIS 3650 in conjunction with or after completion of HIS 3651, 3652 or 3653. Credit: 3 semester hours.*

#### **3651 Medieval and Early Modern Russia**

Early Russian history to the reign of Peter the Great: links with Byzantium and the Christian Orthodox world, the Mongol conquest, the rise of Muscovy territorial expansion, the Time of Troubles, the Church Schism and relations with Western Europe. *Students may not take HIS 3651 in conjunction with or after completion of HIS 3650. Credit: 3 semester hours.*

#### **3652 The History of Modern Russia**

The rise of national consciousness in Russia in the 18th and 19th centuries; Eastern and Western intellectual influences; serfdom, emancipation and industrialization; Marxism, war and revolution. *Students may not take HIS 3652 in conjunction with or after completion of HIS 3650. Credit: 3 semester hours.*

#### **3653 The History of the Soviet Union and the Successor States**

The evolution of the Soviet scientific, technical, military, political and social order from 1917 to the present. Emphasis is placed on the roots of the scientific-technical revolution in the U.S.S.R. *Students may not take HIS 3653 in conjunction with or after completion of HIS 3650. Credit: 3 semester hours.*

#### **3660 Russia as a Multinational Empire**

Russian territorial expansion; Russification and Russian colonialism; Caucasus and the East as themes in Russian culture; Bolshevism, Communism and nationalism, resurgence of nationalism and collapse of the Soviet Union. *Credit: 3 semester hours.*

### **American History: Topics**

#### **3701 U.S. Foreign Relations, 1890–1945**

U.S. imperialism and the rise to world power; WWI and the League of Nations; interwar diplomacy; U.S. foreign policy in WWII. *Credit: 3 semester hours.*

#### **3702 U.S. Foreign Relations, 1945 to the Present**

Origins of the Cold War in Europe and Asia; the Korean War; the German question; the Berlin crises and Germany; the Vietnam War; détente; the second Cold War; U.S. diplomacy in the 1980s. *Credit: 3 semester hours.*

#### **3711 History of African Americans I**

This course provides a survey of the factors which shaped the work, culture and political struggles of African-Americans before World War II. *Credit: 3 semester hours.*

#### **3712 History of African Americans II**

This course studies the social history of African-Americans from 1945 to the present which include political, social, economic and cultural topics. *Credit: 3 semester hours.*

#### **3720 Indians and Europeans in Early America**

Introduces the major topics and themes in the ethnohistory of early America from first contact through about 1815. *Credit: 3 semester hours.*

#### **3725 Law in American History**

Major trends in American legal history from colonial times to present, including imperial and provincial origins of American legal culture, politics of constitutional reform, effects of territorial and commercial expansion, majority and minority interests, legal construction of power and legal activism by interpreters of the law. *Credit: 3 semester hours.*

#### **3731; 3732 Women in America I; II**

A survey course which analyzes the socio-economic, cultural and political factors that influenced the evolution of American women's history. *Credit: 3 semester hours.*

#### **3740 U.S.: Urban America**

Growth and urbanization and their effects upon modern American life and institutions. *Credit: 3 semester hours.*

#### **3750 The American South from Reconstruction to the Present**

The social, material, cultural and political factors that influenced the transformation of the Southern society, economy and politics from the Reconstruction era to the contemporary period. *Credit: 3 semester hours.*

#### **3760 History of New York City and Long Island**

The history of New York City and Long Island as a significant episode in the history of the U.S. Emphasis is placed on social, economic, cultural and religious developments. *Credit: 3 semester hours.*

#### **3770 Economic Geography of New York City**

The historical and economic factors that have contributed to making the metropolitan area a cultural capital and the hub of education, social life and business activity. *Credit: 3 semester hours.*

#### **3780 Immigrants and the Catholic Church in the U.S.**

Interaction of the Catholic Church in the U.S. and Catholic immigrants with emphasis on mid-19th and early 20th century problems and stresses. *Credit: 3 semester hours.*

#### **3790 The Military in American History**

Origins and development of military institutions, traditions and practice in the United States, 1775 to the present; impact of the military on society. *Students may not take HIS 3790 in conjunction with or after completion of HIS 3791. Credit: 3 semester hours.*

#### **3791 The Military in American History (Mini-Course)**

A survey of the political, economic and military roles which the U.S. armed forces have played in American history, particularly in the fields of domestic and foreign affairs. *Students may not take HIS 3791 in conjunction with or after completion of HIS 3790. Credit: 3 semester hours.*

**3800 FDR: President and Statesman (Mini-Course)**

The domestic policies of Franklin D. Roosevelt as president and his role and policies as a world leader during WWII.  
*Credit: 3 semester hours.*

**3850 Africa and the Atlantic (Mini-Course)**

Africa's involvement in the Atlantic world from the 15th through the 19th centuries, focusing on the slave trade and transformations of African economies and societies. *Requires travel to West Africa. Credit: 3 semester hours.*

**3900 History of Canada**

A survey of the political, intellectual, cultural, social and economic developments which have shaped the history of Canada from the earliest European discoveries of the North American continent to its current state of domestic and foreign affairs in the 20th century.  
*Credit: 3 semester hours.*

**4000-Level: Internships, Independent Study, Colloquia and Seminars****4903 Internship in History**

*Restricted registration.* Fieldwork (eight hours per week) in selected museums, libraries, historical sites, or other like organizations under coordinated faculty and professional supervision. *Credit: 3 semester hours.*

**4906 Internship in History**

*Restricted registration.* Fieldwork (16 hours per week). See HIS 4903. *Credit: 6 semester hours.*

**4953 Independent Study**

*Restricted registration.* Independent research in an area of the student's selection under the general advisement of a faculty member.  
*Credit: 3 semester hours.*

**4990 Seminar**

*Restricted registration.* Readings and discussions in the techniques and problems of historical research on a selected topic. *Required of majors in the junior or senior year. Credit: 3 semester hours.*

**4991 Colloquium in European History**

Reading and discussion of selected topics in European history. *Credit: 3 semester hours.*

**4992 Seminar in European History**

Research and writing on selected topics in European history. *Credit: 3 semester hours.*

**4993 Colloquium in U.S. History**

Reading and discussion of selected topics in U.S. history. *Credit: 3 semester hours.*

**4994 Seminar in U.S. History**

Research and writing on selected topics in U.S. history. *Credit: 3 semester hours.*

**Geography Course Offerings (GEO)****1001 World Geography**

A regional analysis of the principal patterns of the physical, economic and cultural geography of the world's nations and continents.  
*Credit: 3 semester hours.*

**1002 North American Geography**

A regional analysis of the principal patterns of the physical, economic and cultural geography of the United States and Canada, with emphasis on the natural resource base of those countries, their problems and developments.  
*Credit: 3 semester hours.*

**2001 Natural Resources and World Development**

An analysis of the most pressing natural resource issues of the late 20th century and how human use of the resource base affects both environmental quality and global development. *Credit: 3 semester hours.*

**2002 Issues in Environmental Conservation**

Environmental issues are analyzed in a spatial framework; energy policy, population, land use, materials and waste management; history of environmental degradation by human activity and possible alternatives to that degradation.  
*Credit: 3 semester hours.*

**Honors (HON) Course Offerings****Interdisciplinary**

- 1000C Discover New York
- 4950 Colloquium
- 4953 Readings and Research

**English**

- 1030C English Composition
- 2150C Literature in a Global Context
- 2100 The Study of American Literature
- 2110 The Study of British Literature

**Fine Arts**

- 2530C Creativity and the Arts

**Government and Politics**

- 1060 American National Government

**History**

- 2200C Emergence of Global Society
- 2210 World History

**Mathematics**

- 2520 Contemporary Math Ideas

**Languages**

- 2800C Language and Culture

**Philosophy**

- 1010C Philosophy of the Human Person
- 2020C Ethics
- 2010C Metaphysics
- 2500 Introduction to Logic

**Psychology**

- 2070 Child Psychology
- 2210 Theories of Personality

**Sciences**

- 2700C Scientific Inquiry
- 1050 Perspectives on Chemistry
- 1070 Fundamentals of Biology I/Lab
- 1080 Fundamentals of Biology II/Lab
- 1310 Introduction to Physical Chemistry
- 1320 Descriptive Inorganic Chemistry/Lab
- 2050 Fundamentals of Biology III/Lab
- 2300 Human Biology
- 2310 Biology and Health
- 2340 Environmental Science
- 2350 Principles of Ecology
- 2370 Introduction to Cosmology

**Sociology**

- 2540 Neighborhoods

**Speech**

- 1002C Public Speaking

**Theology**

- 1050C Perspectives on Christianity
- 1040 Introduction to the Bible
- 2400 Christian Spirituality and Mysticism
- 2430 Catholic Social Teaching
- 2440 Christian Marriage
- 3210 The Human Mystery

*For details regarding the Honors Program on the Queens campus, contact Fr. Michael Whalen or Robert Pennachio at (718) 990-7554.*

*For details regarding the Honors Program on the Staten Island Campus, contact Dr. John Brennan at (718) 390-4540.*

**Intensive English Program (IEP)**

The IEP offers a comprehensive program of English as a second language (ESL) full-time, part-time and independent study classes to assist non-native speakers of English in developing their English language skills. The IEP is open to all: matriculated and non-matriculated students, international students and student groups, visiting scholars, residents, businessmen and women, religious workers and corporate-sponsored/government-sponsored employees. Classes are offered at the beginning, low-intermediate, intermediate and advanced levels in reading, writing, listening and speaking to enable students to reach their academic, business and work-related goals. Class size is small. A free ESL resource library is available. All students take an IEP placement test before registering. Students receive a certificate upon satisfactory completion of the course.

## IEP Course Offerings

### IEP 0110 Beginner: Level 1

Provides intensive instruction in listening, speaking, reading and writing skills at the beginner level. Emphasis on basic comprehension and conversational skills as well as pronunciation and intelligibility. *No credit.*

### IEP 0120 Low-Intermediate: Level 2

Provides intensive instruction in listening, speaking, reading and writing skills at the low-intermediate level. Emphasis on development of vocabulary and idiomatic expressions. *No credit.*

### IEP 0130 High-Intermediate: Level 3

Provides intensive instruction in listening, speaking, reading and writing skills at the high-intermediate level. Emphasis on more extensive production in speaking and writing. Exposure to more challenging reading and listening materials. *No credit.*

### IEP 0140 Advanced: Level 4

Provides intensive instruction in listening, speaking, reading and writing skills at the advanced level. Development of college-level vocabulary and reading skills, essay writing and extensive discourse. *No credit.*

### IEP 0121, 0131, 0141 Part-Time

#### Listening/Speaking: Levels 2, 3, 4

Provides intensive instruction in listening and speaking at the low-intermediate, high-intermediate and advanced levels. *No credit.*

### IEP 0122, 0132, 0142 Part-Time Reading: Levels 2, 3, 4

Provides intensive instruction in reading at the low-intermediate, high-intermediate and advanced levels. *No credit.*

### IEP 0123, 0133, 0143 Part-Time Writing: Levels, 2, 3, 4

Provides intensive instruction in writing at the low-intermediate, high-intermediate and advanced levels. *No credit.*

### IEP 0100 Independent Study

Provides individual instruction (one-on-one) tailored to meet the student's specific language needs. *No credit.*

### IEP 0129, 0139, 0149 Short-Term Study

Provides an IEP language program specifically designed to meet the needs of groups and individuals for short-term study. *No credit.*

## Languages and Literatures (LLT)

### Major Sequences

#### Spanish B.A./M.A.

The Department of Languages and Literatures offers an intensive, accelerated combined degree program leading to both the B.A. and M.A. degrees in five years of full-time study. Qualified undergraduate students who have completed their sophomore year with a 3.0 cumulative index and a 3.5 for 12 credits in Spanish are encouraged to apply. The students

in the B.A./M.A. program take 39 semester hours distributed as follows: SPA 3090, SPA 3100, SPA 3550, SPA 3560, SPA 3870, SPA 3880; six elective credit hours selected among other advanced Spanish undergraduate courses and 15 credit hours in 100-and 200-level Spanish graduate courses. These 15 credits, taken during the junior and senior years, will count towards

#### French (FRE)

33 semester hours including FRE 3090, 3100; 3550, 3560; 3870, 3880; and 15 elective hours in advanced French courses. French majors are urged to study a second foreign language and to take courses in Classical civilization among their general electives. A French major who, in the judgment of the department, shows a deficiency in French grammar shall be required to take FRE 3150 as a preparation for FRE 3870, 3880. A French major who shows a deficiency in speaking French shall be required to take one or both terms of FRE 3110, 3120.

#### Italian (ITA)

33 semester hours including ITA 3090, 3100; 3550, 3560; 3870, 3880; and 15 elective hours in advanced Italian courses. Italian majors are urged to study a second foreign language and to take courses in classical civilization among their general electives. An Italian major, who in the judgment of the department, shows a deficiency in speaking Italian shall be required to take one or both terms of ITA 3110, 3120.

#### Spanish (SPA)

33 semester hours, including SPA 3090, 3100; 3550, 3560; 3870, 3880; and 15 elective hours in advanced Spanish courses. Spanish majors are urged to study a second foreign language and to take courses in classical civilization among their general electives. A Spanish major who, in the judgment of the Department, shows a deficiency in speaking Spanish shall be required to take one or both terms of SPA 3110, 3120.

### Minor Sequences

#### Classical Studies (CLS)

18 semester hours from: CLS 1110, 1210, 1770, 1240, 1260, 1290, 2600, 1320, 3500. These 18 hours may also include up to six hours in related fields, such as HIS 2002; GOV 1250; PHI 3500; SPE 3130. All courses are conducted in English. Students are encouraged, however, to enroll in Latin and/or ancient Greek and may substitute up to nine hours in these languages for any of the requirements.

#### French (FRE)

18 semester hours chosen under departmental advisement in the language.

#### German (GER)

18 semester hours chosen under departmental advisement in the language.

#### Greek Modern (GRM)

18 semester hours chosen under departmental advisement in the language.

#### Italian (ITA)

18 semester hours chosen under departmental advisement in the language.

#### Italian Studies (ITA)

18 semester hours: ITA 2040, 3110, 3570; ANT/SOC 2480; ART 2730; HIS 3541 or 3542. *This minor is not open to ITA majors or minors.*

#### Linguistics (LIN)

15 semester hours: LIN 1010 and four additional Linguistics courses selected in consultation with an advisor.

#### Russian (RUS)

18 semester hours chosen under departmental advisement in the language.

#### Spanish (SPA)

18 semester hours chosen under departmental advisement in the language.

## English as a Second Language Program (ESL)

The English as a Second Language Program is designed to assist international students and any other students whose first language is not English, in improving their English language skills. The program aims to help these students meet the academic demands of college-level course work. Credit courses are offered at the intermediate and advanced levels. ESL writing courses emphasize writing/reading skills. ESL speech courses emphasize speaking/listening skills. Enrollment is limited to 15 students per class. Support services/workshops are also available. Intermediate, advanced and special non-credit writing workshops are offered. The use of the language laboratory is an integral part of the program. Advisement, testing and placement services are available through the ESL Office in Languages and Literatures Department, St. John Hall, Room 435.

## The Language Laboratory

The Queens campus Language Laboratory, located in room B48 of St. Augustine Hall, has an automated tape recording system with playback capability, which, together with a central monitoring console, allows students to perfect their language skills while working at their own pace. It also has a VCR system and 39 TV monitors for individual or group viewing of video tapes on language and culture.

## Arabic Course Offerings (ARA)

### 1010 Arabic Level I

This course develops basic communication skills in the Arabic language through discussion, reading, and writing. *Language laboratory required. Laboratory fee, \$25. Credit: 3 semester hours.*

### 1020 Arabic Level II

Continued development of communication skills in the Arabic language through discussion, reading, and writing. *Language laboratory required. Laboratory fee, \$25. Credit: 3 semester hours.*

### 2030 Arabic Level III

*Prerequisite:* ARA 1020. *Corequisite:* ARA 1011 *Language Laboratory.* This course reviews the basic skills learned in Arabic I and II and continues building the student's comprehension and speaking abilities through an active exchange of ideas on the part of the students and instructor within the context of the Arab culture. *Not open to native speakers except with the permission of the Chair. Laboratory fee, \$25. Credit: 3 semester hours.*

### 2040 Arabic Level IV

*Prerequisite:* ARA 2030. *Corequisite:* ARA 1011 *Language Laboratory.* This course reviews the basic skills learned in Arabic I, II and III and continues to increase the student's comprehension and speaking abilities through an active exchange of ideas on the part of the students and instructor within the context of the Arab culture. *Not open to native speakers except with the permission of the Chair. Laboratory fee, \$25. Credit: 3 semester hours.*

## Classical Studies Course Offerings (CLS)

### 1210 Classical Mythology

The study of myth, its nature and uses as manifested in the Greek and Western traditions. *No knowledge of classical language is required. Credit: 3 semester hours.*

### 1240 Women in the Ancient World

A study of the social, economic and political position of women in ancient Greece and Rome; readings of major literary works with women as their subjects; the view of women as expressed in other contemporary literature; readings from works composed by women. *No knowledge of Greek or Latin required. Credit: 3 semester hours.*

### 1260 Ancient Greek and Roman Historians

Readings in selected works of Herodotus, Thucydides, Livy, Sallust and Tacitus; studies in the philosophy of ancient history and the historical method. *No knowledge of classical language is required. Credit: 3 semester hours.*

### 1290 Classical Drama in Translation

Readings and discussions of the representative plays of the classical Greek theatre. *No knowledge of classical language is required. Credit: 3 semester hours.*

### 1320 Greek and Latin Roots of English

An introduction to the Greek and Latin sources of English words, the principles of word formation and the appropriate usage of vocabulary. *No knowledge of Greek or Latin is required. Credit: 3 semester hours.*

### 1420 Ancient Stories in Modern Dress (Mini-Course)

Selected myths and legends of the ancient Greeks and Romans as presented by classical writers and dramatists, and as adapted by modern writers, playwrights, choreographers and composers; in-class viewing of the film versions of the modern adaptations. *No knowledge of classical language is required. Credit: 3 semester hours.*

### 1770 Classical Archaeology

The history of archaeology and its contribution to our knowledge about the ancient world, its history and civilization. *No knowledge of classical language is required. Credit: 3 semester hours.*

### 2600 Roman Law and Society

A study of the society and institutions of ancient Rome as revealed in Roman law. *No knowledge of classical language is required. Credit: 3 semester hours.*

### 3500 Classical Literature

A study of Western writers from Homer and the Greek tragedians through the Roman period, ending with St. Augustine. *No knowledge of classical language is required. Credit: 3 semester hours.*

## ESL Course Offerings

### ESLW 1200 English as a Second Language: Intermediate Level Reading/Writing

*Prerequisite:* Intermediate level on-site test scores. This course provides language instruction through practice in expository writing, note taking, outlining and critical reading skills. *Open to non-native speakers of English only. Grading on pass-fail basis only. Credit: 3 semester hours.*

### ESLS 1200 Oral/Aural Communication; Intermediate Level Listening/Speaking

*Prerequisite:* Intermediate-level on-site test scores. This course provides instruction in listening comprehension and speaking through training in the sounds of English, intonation patterns and techniques of spontaneous conversation. *Credit: 3 semester hours.*

### ESLW 1300 English as a Second Language: Advanced Level Reading/Writing

*Prerequisite:* ESLW 1200 or advanced level on-site test scores. This course provides language instruction through a study of complex

grammatical structures, multi-paragraph themes, fundamentals of academic writing, reading and vocabulary skills through culturally related materials. *Credit: 3 semester hours.*

### ESLS 1300 Oral/Aural Communication: Advanced Level Listening/Speaking

*Prerequisite:* ESLS 1200 or advanced level on-site test scores. This course provides instruction in listening comprehension and speaking through training in conversational fluency, presentations and error reduction. *Credit: 3 semester hours.*

## Non-Credit Workshops

### ESLW 0400 Special Writing Workshop

*Prerequisite:* Permission of the Director. Language instruction tailored to the needs of the participants. *No credit.*

### EBS 6200 English for Business Studies

This course provides language instruction in terminology and discourse features of business texts for students to whom English is a second language. *Undergraduate-level course for graduate students of The Peter J. Tobin College of Business only. No credit.*

## French Course Offerings (FRE)

### 1010 French, Level I

*Corequisite:* LLT 1011, *Language Laboratory.* This course aims to develop basic communication skills in French. Through a progressive use of the four skills, listening, speaking, reading and writing, students develop oral and written proficiency at a limited level within the context of French culture. *Laboratory fee, \$25. Credit: 3 semester hours.*

### 1020 French, Level II

*Prerequisite:* FRE 1010. *Corequisite:* LLT 1011, *Language Laboratory.* This course continues to develop basic communication skills in French. Through a progressive use of the four skills, listening, speaking, reading and writing, students develop oral and written proficiency at a limited level within the context of French culture. *Laboratory fee, \$25. Credit: 3 semester hours.*

### 2030 French, Level III

*Prerequisite:* FRE 1020. *Corequisite:* LLT 1011, *Language Laboratory.* This course reviews the basic skills learned in French I and II and continues building oral and written proficiency with more intensive reading and conversation within the context of French culture. *Laboratory fee, \$25. Credit: 3 semester hours.*

### 2040 Intermediate French Conversation

*Prerequisite:* FRE 2030. *Corequisite:* LLT 1011, *Language Laboratory.* This course reviews the basic skills learned in French I, II and III and continues building oral and written proficiency with more intensive reading and conversation within the context of French culture. *Laboratory fee, \$25. Credit: 3 semester hours.*

### **2050 Readings in Modern French**

*Prerequisite:* FRE 2030 and permission of Chair. This course is structured to meet the needs and abilities of non-language majors. Readings taken from a wide range of literary texts. Discussions in the foreign language. *Credit: 3 semester hours.*

### **2121 Women Writers in France**

A study of the rich and diverse literary works of French women writers from the 12th century to the present, the changing socio-historical context and their common issues and themes that constitute a female tradition. The course is taught in English and is not part of the sequence for the French major or minor. It can be an elective in the women's studies minor. *Credit: 3 semester hours.*

### **3090; 3100 Masterpieces of French Literature I; II**

*Prerequisite for non-majors: Permission of the Chair.* FRE 3090 is a prerequisite for FRE 3100. FRE 3100 is a prerequisite for all advanced courses in the language. FRE 3090: Through lectures and direct textual analysis of major works, this course traces the development of French literature from its origins to the Baroque. FRE 3100: This course traces the development of French literature from the Age of Enlightenment through the 20th century. *Credit: 3 semester hours.*

### **3110; 3120 Advanced French Conversation**

Drill and practice in conversational French. Topics are selected to meet the requirements of daily life. *Not open to native or fluent speakers. Credit: 3 semester hours.*

### **3150 Review of French Grammar**

*Prerequisite:* FRE 2040 or 2050 or permission of the Chair. Review of grammar for advanced composition courses. *Credit: 3 semester hours.*

### **3300 France's Role Within the European Community**

An overview into the economic, political, technological and social changes in France in the last 10 years that contributed to the shaping of contemporary French culture. *Credit: 3 semester hours.*

### **3550; 3560 Civilization of France I; II**

The history, geography, arts, science, folklore, politics and customs that have contributed to the shaping of French civilization and culture. Part I covers the geography and economy of France as well as its history and civilization from the origins to 1700. Part II covers French history and civilization from 1700 to the present. *This course is conducted in French. Credit: 3 semester hours.*

### **3600 Contemporary France**

This course studies all aspects of contemporary French life. *Credit: 3 semester hours.*

### **3620 Paris in the French Culture**

*Prerequisite:* French 10\_\_ or permission of the Chair for non-majors. A study of the development of the city of Paris from its founding up to the present with the emphasis on its contributions to French culture; onsite discussions include urban study history, social history, literature, painting, music and theater. *Credit: 3 semester hours.*

### **3670 Nineteenth Century French Literature**

An introduction to the principal poets, prose writers and dramatists of the 19th century. *Credit: 3 semester hours.*

### **3690 Twentieth Century French Literature**

An introduction to the principal poets, prose writers and dramatists of the 20th century. *Credit: 3 semester hours.*

### **3810 Advanced Commercial French**

*Prerequisite:* FRE 2040 or FRE 2050 or permission of the Chair. Introduction to the language and practices of today's business world. The acquisition of the rules of commercial correspondence and the understanding and analysis of original commercial documents is emphasized. *Credit: 3 semester hours.*

### **3820 French Afro-Caribbean Literature**

An introduction to the major contemporary writers of the French-speaking Antilles and Black Africa. *Credit: 3 semester hours.*

### **3870; 3880 Advanced French Grammar and Composition I; II**

A thorough study of difficult points of French grammar and syntax with translation of selected passages into idiomatic French and exercises in composition writing and stylistics. *Credit: 3 semester hours.*

### **3900 Art and Skills of Translation**

*Prerequisite:* A working knowledge of French and permission of the instructor or program coordinator. Translation is taught from a theoretical as well as practical point of view. Students are expected to translate a wide range of literary and non-literary texts from French into English. *Credit: 3 semester hours.*

### **4990 Seminar**

*Prerequisite:* FRE 3090 and 3010 or permission from the coordinator.

## **German Course Offerings (GER)**

### **1010 German, Level I**

*Corequisite:* LLT 1011, Language Laboratory. This course aims to develop basic communication skills in German. Through a progressive use of the four skills, listening, speaking, reading and writing, students develop oral and written proficiency at a limited level within the context of German culture. *Laboratory fee, \$25. Credit: 3 semester hours.*

### **1020 German, Level II**

*Prerequisite:* GER 1010. *Corequisite:* LLT 1011, Language Laboratory. This course continues to develop basic communications skills in German. Through a progressive use of the four skills, listening, speaking, reading and writing, students develop oral and written proficiency at a limited level within the context of German culture. *Laboratory fee, \$25. Credit: 3 semester hours.*

### **2030 German, Level III**

*Prerequisite:* GER 1020. *Corequisite:* LLT 1011, Language Laboratory. This course reviews the basic skills learned in German I and II and continues building oral and written proficiency with more intensive reading and conversation within the context of German culture. *Laboratory fee, \$25. Credit: 3 semester hours.*

### **2040 Intermediate German Conversation**

*Prerequisite:* GER 2030. *Corequisite:* LLT 1011, Language Laboratory. This course reviews the basic skills learned in GER I, II and III and continues building oral and written proficiency with more intensive reading and conversation within the context of German culture. *Laboratory fee, \$25. Credit: 3 semester hours.*

### **3090; 3100 Masterpieces of German Literature I; II**

*Prerequisite for non-majors: Permission of the Chair.* GER 3090 is a prerequisite for GER 3100. Discussions in the language of representative selections. *Credit: 3 semester hours.*

*Note: GER 3100 is prerequisite for all advanced literature courses in the language.*

### **3110; 3120 Advanced German Conversation**

Drill and practice in conversational German. Topics are selected to meet the requirements of daily life. *Not open to native or fluent speakers. Credit: 3 semester hours.*

### **3550; 3560 Civilization of Germany**

The history, geography, art, science, music, literature, folklore, politics, habits and customs that have contributed to the shaping of German civilization and culture. *Credit: 3 semester hours.*

### **3690; 3700 Goethe**

A study of representative works of the author; *Faust.* *Credit: 3 semester hours.*

### **3710 German Romanticism**

A study of representative authors, 1790–1830. *Credit: 3 semester hours.*

### **3720 German Novelle**

The genre from Goethe to the present. *Credit: 3 semester hours.*

### **3870; 3880 Advanced German Grammar and Composition**

A study of difficult points of German grammar and syntax with translation of selected passages into idiomatic German. *Credit: 3 semester hours.*

## **Greek Classical Course Offerings (GRC)**

### **1010; 1020 Elementary Attic Greek**

*Prerequisite:* GRC 1010 is a prerequisite for 1020. *Corequisite:* LLT 1011, Language Laboratory. An introduction to classical Greek (Attic); a study of Greek grammar, acquisition of a basic vocabulary and practice in translation. *Credit: 3 semester hours.*

### **4953; 4954 Independent Study**

*Prerequisite:* Permission of instructor. Individual guided instruction in either Classical Greek grammar or literature. *Credit: 3 semester hours.*

## Greek Modern Course Offerings (GRM )

### 1010 Modern Greek Level I

*Corequisite:* LLT 1011, *Language Laboratory*. This course develops basic communication skills in modern Greek. Through a progressive use of the four skills, listening, speaking, reading and writing, students develop oral and written proficiency at a limited level within the context of Greek culture. *Laboratory fee, \$25. Credit: 3 semester hours.*

### 1020 Modern Greek Level II

*Prerequisite:* GRM 1010. *Corequisite:* LLT 1011, *Language Laboratory*. This course continues to develop basic communication skills in modern Greek. Through a progressive use of the four skills, listening, speaking, reading and writing, students develop oral and written proficiency at a limited level within the context of Greek culture. *Laboratory fee, \$25. Credit: 3 semester hours.*

### 2030 Greek-Modern Level III

*Prerequisite:* GRM 1020. *Corequisite:* LLT 1011, *Language Laboratory*. This course reviews the basic skills learned in Greek I and II and continues building oral and written proficiency with more intensive reading and conversation within the context of Greek culture. *Laboratory fee, \$25. Credit: 3 semester hours.*

### 2040 Intermediate Modern Greek, Conversation

*Prerequisite:* GRM 2030. *Corequisite:* LLT 1011, *Language Laboratory*. This course reviews the basic skills learned in GRM I, II and III and continues building oral and written proficiency with more intensive reading and conversation within the context of Greek culture. *Laboratory fee, \$25. Credit: 3 semester hours.*

### 3090; 3100 Masterpieces of Greek Literature I; II

*Prerequisite:* GRM 2040 or permission of Chair. GRM 3090 is a prerequisite for GRM 3100. Discussions, in the language, of representative selections. *Credit: 3 semester hours.*

### 3130; 3140 Modern Greek for Bilingual Use

*Prerequisite:* Native or near-native proficiency. GRM 3130 is a prerequisite for GRM 3140. A concise view of the basic language skills for use in a bilingual environment. Conversation, aural training, and writing skills based on practical everyday topics and on readings of literary and educational materials. *Credit: 3 semester hours.*

## Italian Course Offerings (ITA)

### 1000 Intensive Italian I; II

*Corequisite:* LLT 1011, *Language Laboratory*. This course aims to develop basic communication skills in Italian. Through a progressive use of the four skills, listening, speaking, reading and writing, students develop oral and written proficiency at a limited level within the context of Italian culture. *Laboratory fee, \$25. Credit: 3 semester hours.*

### 1010 Italian, Level I

*Corequisite:* LLT 1011, *Language Laboratory*. This course aims to develop basic communication skills in Italian. Through a progressive use of the four skills, listening, speaking, reading and writing, students develop oral and written proficiency at a limited level within the context of Italian culture. *Laboratory fee, \$25. Credit: 3 semester hours.*

### 1020 Italian, Level II

*Prerequisite:* ITA 1010. *Corequisite:* LLT 1011, *Language Laboratory*. This course continues to develop basic communication skills in Italian. Through a progressive use of the four skills, listening, speaking, reading and writing, students develop oral and written proficiency at a limited level within the context of Italian culture. *Laboratory fee, \$25. Credit: 3 semester hours.*

### 2030 Italian, Level III

*Prerequisite:* ITA 1020. *Corequisite:* LLT 1011, *Language Laboratory*. This course reviews the basic skills learned in Italian I and II and continues building oral and written proficiency with more intensive reading and conversation within the context of Italian culture. *Laboratory fee, \$25. Credit: 3 semester hours.*

### 2040 Intermediate Italian Conversation

*Prerequisite:* ITA 2030. *Corequisite:* LLT 1011, *Language Laboratory*. This course reviews the basic skills learned in Italian I, II and III and continues building oral and written proficiency with more intensive reading and conversation within the context of Italian culture. *Laboratory fee, \$25. Credit: 3 semester hours.*

### 3090; 3100 Masterpieces of Italian Literature I; II

*Prerequisite for non-majors:* Permission of the Chair. ITA 3090 is a prerequisite for ITA 3100. ITA 3090: Through lectures and direct textual analysis of major works, this course traces the development of Italian literature from its origins to the Baroque. ITA 3100: This course traces the evolution of Italian literature from the Age of Enlightenment through the twentieth century. *Credit: 3 semester hours.*  
*Note: ITA 3100 is a prerequisite for all advanced ITA courses.*

### 3110; 3120 Advanced Italian Conversation

Drill and practice in conversational Italian. Topics are selected to meet the requirements of daily life. *Not open to native or fluent speakers. Credit: 3 semester hours.*

### 3240 Pirandello's Theatre

This course is a survey of Pirandello's work as a playwright. It is intended to acquaint the student with the author's most familiar themes and his worldwide impact on past and current theatrical trends. *Course conducted in English. Not applicable to major sequence. Credit: 3 semester hours.*

### 3260 Italian Cinema, from Neo-Realism to the Present

This course focuses on the development of the Italian cinema from World War II to our days. It examines the relationship between the screen and the socio-political and economic structures projected in a literary context. *Credit: 3 semester hours. Course is conducted in Italian.*

### 3530 Italian Renaissance Art and Literature

This course, taught in English, is an investigation of classical humanism in Italian literature and art. Emphasis will be put on the manifestation of Renaissance ideas in the cities of Florence and Rome. *Credits: 3 semester hours.*

### 3540 Southern Italy: A Cultural Journey

*Corequisite:* ART 2929. This course, which is taught in English and conducted abroad, will expose the student to the variety of cultures that have shaped southern Italy throughout the centuries from the ancient Greeks to modern times, through personal encounters, research, and a Service-Learning experience. *Credits: 3 semester hours.*

### 3550; 3560 Civilization of Italy

The history, geography, art, science, music, literature, folklore, politics, habits and customs that have contributed to the shaping of Italian civilization and culture. *Credit: 3 semester hours.*

### 3570 Studies in Italian Culture

A study of the diversified elements comprising the background of the culture and civilization of Italy. *Course conducted in English. Credit: 3 semester hours. This course is not applicable to the major.*

### 3580 The City of Rome

A study of the city of Rome through its historical periods and its literary and cultural movements. Italy's capital city will be the focal point for broad analyses of the relation of past and present, the classical cultural heritage in Italy, the anti-classical movements of Italian art, architecture, literature and film. Site visits are an integral part of this course. *Offered in Rome and taught in English. Credits: 3 semester hours.*

### 3590 Italian Lyric Poetry

The evolution of Italian lyric poetry from the *Scuola Siciliana* through the *Dolce Stil Nuovo*, culminating with a study of Petrarch's *Canzoniere*. *Credit: 3 semester hours.*

### 3600 The Italian Novella

This course traces the development of the Italian novella, culminating with a study of Boccaccio's *Decameron*. *Credit: 3 semester hours.*

### 3620 Italian Renaissance Literature

Major literary figures of the *Rinascimento*. Emphasis on chivalric and epic poetry, political thought, theatre and Petrarchism. *Credit: 3 semester hours.*

### **3670 The Modern Italian Novel**

The development of the modern Italian novel seen against its historical and social background. Emphasis is placed on the novels of Svevo, Pirandello, Moravia, Pavese, Vittorini and Calvino. *Credit: 3 semester hours.*

### **3680 The Modern Italian Theatre**

The evolution of the modern Italian theatre from the grotteschi to the experimental theatre of today; the works of Rosso di San Secondo, Chiarelli, Pirandello, Betti, De Filippo and others. *Credit: 3 semester hours.*

### **3690 Italian Poetry of the 19th Century**

*Prerequisite:* ITA 3100. A study of Italian poetry of the 19th century as reflected in representative poets of the period: Foscolo, Leopardi, Pascoli, Carducci, D'Annunzio. *Credit: 3 semester hours.*

### **3700 Italian Novel of the 19th Century**

*Prerequisite:* ITA 3100. A study of the Italian novel of the 19th century as reflected in representative novelists of the period: Manzoni, Verga, D'Annunzio, Svevo. *Credit: 3 semester hours.*

### **3740 Contemporary Italian Fiction**

A study of contemporary Italian fiction: Sperimentalismo, the Neo-Avant-Garde and Post-Modernism. Selected works are analyzed with respect to structure, techniques, themes and language. *Credit: 3 semester hours.*

### **3750 Advanced Italian for Business**

*Prerequisite:* ITA 2040. The language and the practices of Italian business. *Credit: 3 semester hours.*

### **3810; 3820 La Divina Commedia**

Dante's masterpiece, with particular emphasis on its literary and philosophical significance. *Credit: 3 semester hours.*

### **3870; 3880 Italian Advanced Grammar and Composition**

A study of difficult points of Italian grammar and syntax, intensive composition practice and translation of selected passages into idiomatic Italian. *Credit: 3 semester hours.*

### **3900 Art and Skills of Translation**

*Prerequisite:* Working knowledge of ITA and permission of the instructor. This course addresses translation from theoretical and practical points of view. Students are expected to translate a wide range of texts from Italian into English. *Credit: 3 semester hours.*

### **4990 Seminar in Italian Literature**

*Credit: 3 semester hours.*

## Latin Course Offerings (LAT)

### **1010; 1020 Elementary Latin I; II**

*Prerequisite:* LAT 1010 is a prerequisite for LAT 1020. An introduction to Latin; reading of Latin authors from the beginning of the course, accompanied by a study of the fundamentals of Latin grammar. *Credit: 3 semester hours.*

### **2030; 2040 Intermediate Latin**

*Prerequisite:* LAT 1020. *First Semester:* Various prose selections (Nepos, Cicero, etc.) *Second Semester:* Selections from Vergil. *Credit: 3 semester hours.*

### **2050 Selections from Medieval Latin**

*Prerequisite:* LAT 2030 or equivalent. The lives and writings of several representative authors of the Middle Ages. A study of the influence of classical writings on medieval literature and the consequent influence of the medieval period on modern culture. *Credit: 3 semester hours.*

### **2060 Ecclesiastical Latin**

*Prerequisite:* LAT 1020 or equivalent. A survey of the nature and historical use of Ecclesiastical Latin, with readings drawn from the liturgy, theological works and church documents. *Credit: 3 semester hours.*

### **4953; 4954 Independent Study**

Individual guided study in Latin of a particular author or authors or of a genre of Latin literature. *Credit: 3 semester hours.*

## Linguistics Course Offerings (LIN)

### **1010 Introduction to Linguistics**

An introduction to the fundamental principles of phonetics, phonology, morphology, syntax and semantics, with examples drawn from classical and modern languages. *Credit: 3 semester hours.*

### **1020 Survey of Linguistics**

*Prerequisite:* LIN 1010. An introduction to the various fields of interest that comprise the modern study of linguistics. *Credit: 3 semester hours.*

### **1155 Language and Intercultural Communication**

Communication as it affects and is affected by culture. Barriers to effectiveness. Competent intercultural communication in ethnic, intergenerational, gender, deaf subcultures and international settings. *Credit: 3 semester hours.*

### **1320 Greek and Latin Roots of English**

An introduction to the Greek and Latin sources of English words, the principles of word formation and the appropriate usage of vocabulary. *No knowledge of Greek or Latin required. Credit: 3 semester hours.*

### **1710 Phonetics**

Articulatory phonetics, broad and narrow transcription of American English (using the International Phonetic Alphabet); elements of dialects and accents. *Credit: 3 semester hours.*

### **1720 Anatomy and Physiology of the Speech System**

*Prerequisite:* LIN 1710. The anatomy and physiology of the breathing, phonatory and articulatory systems as they are used in speech. Introduction to the nervous system, particularly as the controller of the speech mechanism. *Credit: 3 semester hours.*

### **1730 Language Acquisition**

*Prerequisite:* LIN 1710. Phonological, morphological, syntactic, semantic, pragmatic and cognitive aspects of language acquisition in the normal child are analyzed; comparisons to the linguistically disordered child. Practical application discussed. *Credit: 3 semester hours.*

### **2150 Introduction to Romance Philology**

*Prerequisite:* LIN 1010 or permission of the department. A survey of the evolution of the Romance family of languages and the linguistic properties of each of its members. *Credit: 3 semester hours.*

### **3400 Introduction to Logic**

A study of the elementary and advanced forms of deductive argumentation in both traditional logic and the modern logic of propositions. *Credit: 3 semester hours.*

### **3420 Informal Logic**

*Prerequisite:* LIN 3400 or permission of instructor. Application of principles of logic to law, politics, arts, science, advertising, ethics and media. Special emphasis on developing skill of detecting informal fallacy. *Credit: 3 semester hours.*

### **3910 Philosophy of Language**

*Prerequisite:* PHI 2300. An introductory course covering such topics as the ideational, referential and behavioral theories of linguistic meanings; translation and indeterminacy; realism and antirealism. Special concerns of this course are the relationship between language and mind; the relationship between semantics and pragmatics. *Credit: 3 semester hours.*

## Languages and Literatures Course Offerings (LLT)

### **1000C French Language and Culture**

An introduction to the study of the nature, evolution, and diversity of human languages and their relationship to the development of culture. Specific sections may deal with particular languages as indicated in the course-offering bulletin. *Credit: 3 semester hours.*

### **1000C Italian Language and Culture**

An introduction to the study of the nature, evolution, and diversity of human languages and their relationship to the development of culture. Specific sections may deal with particular languages as indicated in the course-offering bulletin. *Credit: 3 semester hours.*

### **1000C Spanish Language and Culture**

An introduction to the study of the nature, evolution, and diversity of human languages and their relationship to the development of culture. Specific sections may deal with particular languages as indicated in the course-offering bulletin. *Credit: 3 semester hours.*

### 1040 Europe on the Move: France, Germany, Italy and Spain Within the European Community

An overview of the economic, political, technological and social changes that have occurred in France, Germany, Italy and Spain over the last 10 years and that have contributed to the shaping of the European community. *Credit: 3 semester hours.*

### 2122 Women Writers in Italy

Italian women writers have played an important role in the cultural and social milieu of Italy from the 12th century to the present. This course focuses on issues that have permeated women's writings in an ever-changing political and social scene. *Course is taught in English and is an elective for the women studies minor.*  
*Credits: 3 semester hours.*

### 3980 French International Internship

*Prerequisite: Permission of Chair.* Total immersion experience in a field of interest chosen by the student in a country in which the target language is spoken.  
*Credit: 3 semester hours.*

### 3980 Italian International Internship

*Prerequisite: Permission of Chair.* Total immersion experience in a field of interest chosen by the student in a country in which the target language is spoken.  
*Credit: 3 semester hours.*

### 3980 Spanish International Internship

*Prerequisite: Permission of Chair.* Total immersion experience in a field of interest chosen by the student in a country in which the target language is spoken.  
*Credit: 3 semester hours.*

## Portuguese Course Offerings (POR)

### 1010 Portuguese Level I

*Corequisite: LLT 1011, Language Laboratory.* Introduction to the basic communication skills; emphasis on speaking and reading within the context of Luso-Brazilian cultures. *Laboratory fee, \$25. Credit: 3 semester hours.*

### 1020 Portuguese Level II

*Prerequisite: POR 1010. Corequisite: LLT 1011, Language Laboratory.* Further training in the communication skills, with continued emphasis on speaking and reading within the context of Luso-Brazilian cultures. *Laboratory fee, \$25. Credit: 3 semester hours.*

## Russian Course Offerings (RUS)

### 1010 Russian, Level I

*Corequisite: LLT 1011, Language Laboratory.* This course aims to develop basic communication skills in Russian. Through a progressive use of the four skills, listening, speaking, reading and writing, students develop oral and written proficiency at a limited level within the context of Russian culture. *Laboratory fee, \$25. Credit: 3 semester hours.*

### 1020 Russian Level II

*Prerequisite: RUS 1010. Corequisite: LLT 1011, Language Laboratory.* This course continues to develop basic communication skills in Russian. Through a progressive use of the four skills, listening, speaking, reading and writing, students develop oral and written proficiency at a limited level within the context of Russian culture. *Laboratory fee, \$25. Credit: 3 semester hours.*

### 2030 Russian, Level III

*Prerequisite: RUS 1020. Corequisite: LLT 1011, Language Laboratory.* This course reviews the basic skills learned in Russian I and II and continues building oral and written proficiency with more intensive reading and conversation within the context of Russian culture. *Laboratory fee, \$25. Credit: 3 semester hours.*

### 2040C Intermediate Russian Conversation

*Prerequisite: RUS 2030. Corequisite: LLT 1011, Language Laboratory.* Russian Conversation is based on life and culture that integrates discrete grammar points in communicative activities, which simulate real-life context. In conjunction with the classroom instruction, the student is required to work in the language laboratory for one additional period a week. *Laboratory fee, \$25. Credit: 3 semester hours.*

### 3090 Masterpieces of Russian Literature I

*Prerequisite for non-majors: Permission of the Chair.* Lectures and analytical discussions on the most representative works by Russian authors from 1140 to the present. *The course is conducted in Russian. Credit: 3 semester hours.*

### 3110; 3120 Advanced Russian Conversation

Drill and practice in conversational Russian. Topics are selected to meet the requirements of daily life. *Not open to native or fluent speakers. Credit: 3 semester hours.*

### 3230 Dostoyevsky

A critical analysis of Dostoyevsky's major novels, with particular emphasis on his ideology and aesthetics. *Course conducted in English. No knowledge of Russian required. Credit: 3 semester hours.*

### 3550; 3560 Civilization of Russia

This course features the history, geography, art, science, music, literature, politics and customs which have contributed to the shaping of Russian civilization and culture.  
*Credit: 3 semester hours.*

## Spanish Course Offerings (SPA)

### 1010 Spanish, Level I

*Corequisite: LLT 1011, Language Laboratory.* This course develops basic communication skills in Spanish. Through a progressive use of the four skills, listening, speaking, reading and writing, students develop oral and written proficiency at a limited level within the context of Spanish culture. *Laboratory fee, \$25. Credit: 3 semester hours.*

### 1020 Spanish, Level II

*Prerequisite: SPA 1010. Corequisite: LLT 1011, Language Laboratory.* This course continues to develop basic communication skills in Spanish. Through a progressive use of the four skills, listening, speaking, reading and writing, students develop oral and written proficiency at a limited level within the context of Spanish culture. *Laboratory fee, \$25. Credit: 3 semester hours.*

### 2030 Spanish, Level III

*Prerequisite: SPA 1040. Corequisite: LLT 1011, Language Laboratory.* This course reviews the basic skills learned in Spanish I and II and continues building oral and written proficiency with more intensive reading and conversation within the context of Spanish culture. *Laboratory fee, \$25. Credit: 3 semester hours.*

### 2040 Intermediate Spanish Conversation

*Prerequisite: SPA 2030. Corequisite: LLT 1011, Language Laboratory.* This course reviews the basic skills learned in Spanish I, II and III and continues building oral proficiency with more intensive conversation within the context of Hispanic culture. *Laboratory fee, \$25. Credit: 3 semester hours.*

### 2050 Readings in Modern Spanish

*Prerequisite: SPA 2030.* This course is structured to meet the needs and abilities of non-language majors. Discussion in the foreign language. *Credit: 3 semester hours.*

### 3090; 3100 Masterpieces of Hispanic Literature I; II

*Prerequisite for non-majors: Permission of the Chair.* SPA 3090 is a prerequisite for SPA 3100. SPA 3090: Through lectures and textual analysis, this course traces the development of Spanish literature from its origins through the 20th century. SPA 3100: Through lectures and textual analysis, this course traces the development of Spanish-American literature from the 16th through the 20th century. *Credit: 3 semester hours.*

*Note: SPA 3100 is a prerequisite for all advanced SPA courses.*

### 3110; 3120 Advanced Spanish Conversation

Conversation based on everyday topics and on readings taken from a wide range of literary and non-literary materials. *Not open to native or fluent speakers. Credit: 3 semester hours.*

### 2150 Spanish for Law-Related Careers

*Prerequisite: SPA 2040 or permission of instructor.* A study of grammatical structures and specialized vocabulary to enable law-oriented students to communicate with Spanish speakers in legal matters. *Not applicable to the major sequence. Credit: 3 semester hours.*

### **2170 Spanish for Medical Personnel**

*Prerequisite:* SPA 2040 or permission of instructor. A study of specialized vocabulary and structures required for medically oriented students to communicate with patients at a basic level. *Not applicable to the major sequence.* *Credit: 3 semester hours.*

### **2350 Spanish for Bilingual Hispanics**

*Prerequisite:* Permission of the department. A study of correct written and spoken Spanish for Bilingual Hispanics. *Credit: 3 semester hours.*

### **2360 Review of Spanish Grammar**

*Prerequisite:* SPA 2040 or 2050 or permission of the department. A thorough review of Spanish grammar intended as preparation for more advanced composition courses. *Course conducted in Spanish.* *Credit: 3 semester hours.*

### **3550 Civilization of Spain**

The history, geography, art, science, music, literature, folklore, politics, habits and customs that have contributed to the shaping of Spanish civilization and culture. *Credit: 3 semester hours.*

### **3560 Civilization of Spanish America**

The history, geography, art, science, music, literature, folklore, politics, habits and customs that have contributed to the shaping of Spanish-American civilization and culture. *Credit: 3 semester hours.*

### **3570 Medieval Spanish Literature**

A survey of Spanish medieval literature from the *Poema de Mio Cid* up to *La Celestina*. Reading and discussion of important literary figures and their works. *Credit: 3 semester hours.*

### **3580 Works of Cervantes I**

An in-depth study of *Don Quijote*. *Credit: 3 semester hours.*

### **3600 Contemporary Spain**

A study of all aspects of contemporary Spanish life. *Credit: 3 semester hours.*

### **3610; 3620 Spanish Golden Age Literature I; II**

A study of the major literary genres and the principal writers and works of the period. *Credit: 3 semester hours.*

### **3640 19th-Century Spanish Literature**

A study of Romanticism and Realism in Spain through readings and discussions of the most important writers of these periods. *Credits: 3 semester hours.*

### **3700 The Spanish-American Novel**

An analysis of the development and significance of the Spanish-American novel. Emphasis on contemporary novelists. *Credit: 3 semester hours.*

### **3710 The Essay in Spanish-American Literature**

A study of the origin and development of the essay in Spanish-American literature. *Credit: 3 semester hours.*

### **3730 Spanish American Short Story**

A study of the development of the short story in Spanish America from the colonial period to the twentieth century. *Credit: 3 semester hours.*

### **3770 Literature of Spain from the Generation of 1898 to the Civil War**

Readings and discussion on the interpretation of the social and literary significance of Baroja, Valle Inclán, Unamuno, Azorín, Ortega y Gasset, and others from the "Generation of '98" *Credit: 3 semester hours.*

### **3780 Spanish Literature After the Civil War**

A study of the principal literary genres and the representative works of the period. *Credit: 3 semester hours.*

### **3870 Advanced Spanish Grammar and Composition I**

A study of difficult points of Spanish grammar and syntax with translation of selected passages into idiomatic Spanish. *Credit: 3 semester hours.*

### **3880 Advanced Spanish Grammar and Composition II**

A study of difficult points of Spanish grammar and syntax with translation of selected passages into idiomatic Spanish. *Credit: 3 semester hours.*

### **3900 Art and Skills of Translation**

*Prerequisites:* Working knowledge of SPA and permission of the instructor. This course addresses translation from theoretical and practical points of view. Students are expected to translate a wide range of texts from Spanish to English. *Credit: 3 semester hours.*

### **4770 Spanish Literature of the 19th Century**

A study of the literary movements of the 19th century in their cultural and historical perspectives. *Credit: 3 semester hours.*

### **4990 Seminar**

*Prerequisite:* Permission of the Chair. This course aims at eliminating lacunae. *Credit: 3 semester hours.*

## **Mathematics (MTH)/ Computer Science (CSC)**

### **Major Sequences**

#### **Mathematics (MTH)**

##### **B.A.**

40 semester hours including: CSC 1390; MTH 1730, 1740, 2750, 2760, 2700, 2790, 3770, 3780, , 4830, 3840, 4990. In addition, MTH majors on the Queens campus take PHY 1930; 1940. MTH majors on the Staten Island campus take PHY 1440; 1450.

##### **B.A./M.A.**

Students admitted to the accelerated B.A./M.A. Program in Mathematics take, as their major sequence for the baccalaureate degree, 37 semester hours including CSC 1390; MTH 1730, 1740, 2700, 2750, 2760, 2790, 3770, 3780, 3840 and 4990. In addition, Mathematics majors must take PHY 1930 or 1440 and PHY 1940 or 1450. Students must complete two 100-level graduate courses during their junior year and MTH 207 and 208

during their senior year, for a total of 12 graduate credits. Eligibility requires a 3.0 overall index with a 3.25 index in the major. For additional program requirements, consult the St. John's University Graduate Bulletin.

##### **B.S.**

55 semester hours including: CSC 1390; MTH 1730, 1740, 2750, 2760, 2700, 3770, 3780, 2790, 3840, 2800, 3810, 4830, 4990 and nine elective credits in MTH. In addition, MTH majors on the Queens campus take PHY 1930, 1940. Majors on the Staten Island campus take PHY 1440, 1450.

#### **Computer Science (CSC)**

(Offered on Staten Island campus only.)

##### **B.S.**

30 semester hours in CSC and 14 semester hours in MTH including: CSC 1020, 1400, 1410, 2420, 2450, 2470, 2480, 4990, and six elective credits in computer science. All CSC majors must take MTH 1050, 1730, 1740, 2540, and PHY 1440.

### **Minor Sequences**

#### **Applied Statistics**

19 semester hours: CSC [1010 or 1390 or 1400], MTH [1020 or 1210], 1125, 2130 and 2140.

#### **Mathematics**

25-26 semester hours: CSC 1390, MTH 1730, 1740, 2750, 2760, 2790 and one elective in mathematics.

#### **Computer Science**

21 semester hours: CSC 1400, 1410 and five courses from among CSC 2370, 2420, 2430, 2440, 2450, 2460, 2470, 2480, 2490, 2500, MTH 2540.

#### **Information Science**

18 semester hours: CSC 1020, [1400 or 1350], 2490 and nine elective credits chosen from CSC 1410, 1470, 2450, 2480, 2640.

## Mathematics Course Offerings (MTH)

### 0290 Introduction to College Mathematics

Emphasis is placed on reinforcing basic arithmetic skills and the essential elements of algebra necessary to undertake any college-level mathematics courses. *Course does not satisfy St. John's University Core Curriculum requirement. Course does not apply to major or minor sequences. Credit: 3 semester hours.*

### 1000C Mathematics for Liberal Arts

This course provides a qualitative approach to an understanding and interpretation of mathematics in the contemporary liberal arts. Topics to be discussed are selected from among those which have relevant application in the liberal arts. *Credit: 3 semester hours.*

### 1040 Mathematical Models for Decision Making

*Prerequisite: Three years of high school mathematics.* This course is intended to provide a foundation for practical decision making. Topics selected from finite mathematics, graph theory, probability, Markov chains, theory of voting, game theory. Particularly useful for students in the social sciences. *Credit: 3 semester hours.*

### 1020 Applied Statistics I

*Prerequisite: High school algebra.* An introduction to general statistical methods for all disciplines. *Credit: 4 semester hours.*

### 1050 Pre-Calculus and Trigonometry

Review of elementary algebra; functions and graphs; sets of linear equations, introduction to exponential and logarithmic functions; trigonometry. *For chemistry, mathematics, physics majors and pre-engineering students who have not attained satisfactory grades in advanced algebra and trigonometry in high school. Credit: 3 semester hours.*

### 1125 Applied Statistics II: Multivariate Analysis

*Prerequisite: MTH 1020.* A continuation of the study of general statistical methods including factor analysis, multiple and curvilinear regression and analysis of covariance. *Credit: 4 semester hours.*

### 1210 Bio-Statistics

Probability and statistics with applications to the natural sciences. *Open to biology, environmental studies majors and pre-med students only. Credit: 4 semester hours.*

### 1220 Calculus with Biological Applications

Elementary calculus with applications whenever possible to the natural sciences. *Open to biology, environmental studies majors and pre-med students only. Credit: 4 semester hours.*

### 1250 Statistical Applications for Pharmacy and Allied Health

An introduction to the applications of probability and statistics to the Pharmaceutical and allied health professions. *Open to College of Pharmacy and Allied Health Professions students only. Credit: 3 semester hours.*

### 1260 Calculus Applications for Pharmacy and Allied Health

An introduction to differential and integral calculus for the pharmaceutical and allied Health professions. *Open to College of Pharmacy and Allied Health Professions students only. Credit: 3 semester hours.*

### 1300 College Algebra with Business Applications

Algebraic concepts and techniques as applied to economics and other business mathematics with an emphasis on "real world" computations. *Open to The Peter J. Tobin College of Business students only. Course does not satisfy St. John's University Core Curriculum requirements. Credit: 3 semester hours.*

### 1310 Pre-Calculus with Business Applications (formerly MTH N36/12)

Review of algebra; linear, quadratic and other functions with applications to economics and business. *Open to The Peter J. Tobin College of Business students only. Credit: 3 semester hours.*

### 1320 Calculus with Business Applications

*Prerequisite: MTH 1310.* Introduction to calculus. Differentiation and integration of algebraic, exponential, and logarithmic functions of a single variable; introduction to functions of several variables; business and economics applications are stressed throughout. *Open to The Peter J. Tobin College of Business students only. Credit: 3 semester hours.*

### 1530; 1540 Fundamentals of Mathematics I; II

*Prerequisite: MTH 1530 is a prerequisite for MTH 1540.* The real number system and its subsystems; modular arithmetic; basic algebraic structures; experimental and informal geometry; measurement; logic, elementary probabilistic and statistical ideas and methods. *Open to education majors only. Credit: 3 semester hours.*

### 1570; 1580 Survey of Mathematics I; II

*Prerequisite: MTH 1570 is a prerequisite for MTH 1580.* A general survey of elementary and modern mathematics. Topics are chosen with a view towards a variety of applications, logical paradoxes and mathematical games. The purpose is to provide a varied, useful and interesting background in mathematics. *For Secondary Education minors only. Not applicable to major or minor sequences. Credit: 3 semester hours.*

### 1730; 1740 University Calculus I and II

*Prerequisite: Satisfactory grades in Trigonometry and Advanced Algebra or MTH 1050. MTH 1730 is a prerequisite for MTH 1740.* Analytic geometry; functions; limits; differentiation of algebraic and transcendental functions; integration; applications. *For mathematics, pre-engineering, chemistry, and physics majors only. Credit: 4 semester hours.*

### 2110 Applied Probability for Actuarial Science

The use of probability in a risk management setting. The fundamental axioms of probability and the standard probability distributions, as they are used in the applied field of risk management. *Credit: 4 semester hours. Open to mathematics and actuarial science majors.*

### 2130 Applied Statistics III: Non-Parametric Statistics

*Prerequisite: MTH 1125.* General nonparametric statistical methods. *Credit: 4 semester hours.*

### 2140 Statistical Design

Methods for designing experiments and the statistical analysis of experimental results. *Credit: 4 semester hours.*

### 2150 Statistics for Behavioral and Social Sciences

*Prerequisite: MTH 1020.* Bivariate relationships in statistical models. Topics include: research design, t-test, analysis of variance correlation and regression, chi-square test. Use of SPSS and other appropriate software packages. *Recommended for behavioral and social science majors. Credit: 3 semester hours.*

### 2390 Introduction to Operations Research

Scientific approaches to decision making involving the operations of organizational systems. Topics include integer programming, probability, stochastic processes, game theory, networks. *Open to The Peter J. Tobin College of Business students only. Credit: 3 semester hours. (SI)*

### 2540 Computer Mathematics

Mathematical concepts used in designing and analyzing algorithms. Topics may include permutations and combinations, mathematical induction, discrete probability, propositional logic and applications to number systems, summation, limits, vectors and matrices. *Credit: 3 semester hours. (SI)*

### 2560 Topics in Mathematics

Elementary number theory; real number system and sub-system; transformations and functions, isometries and symmetry groups. *Open to Education majors only. Credit: 3 semester hours.*

### 2700 Introduction to Mathematical Thinking

*Prerequisite: MTH 1740.* An introduction to the tools of mathematics. How to read and write mathematics; construct examples and counterexamples; elementary mathematical logic; methods of proof. Students will be required to give presentations. *Credit: 3 semester hours.*

### 2750 University Calculus III

*Prerequisite: MTH 1740.* Matrices and vectors; vector functions and their derivatives; partial differentiation; multiple integrals. *Credit: 4 semester hours.*

### 2760 University Calculus IV

*Prerequisite: MTH 2750.* Multiple integrals and their applications: Green's Theorem, Stokes' Theorem, sequences and series. *Credit: 4 semester hours.*

### 2790 Introduction to Linear Algebra

*Prerequisite: MTH 1740.* Vectors and vector spaces; linear transformations and matrices; characteristic values and characteristics vectors of linear transformations; similarity of matrices. *Credit: 3 semester hours.*

### 2800 Introduction to Modern Algebra

*Prerequisite: MTH 2750.* Elementary theory of groups, rings, integral domains and fields. *Credit: 3 semester hours.*

### 3380 Discrete Mathematics

The application of mathematics to discrete rather than continuous models.  
*Credit: 3 semester hours.*

### 3770; 3780 Advanced Calculus I; II

*Prerequisite:* MTH 2760. MTH 3770 is a prerequisite for MTH 3780. Topology of the real line, limits, differentiation and integration theory; vectors, linear and nonlinear functions of several variables, series, implicit function theorems; selected topics.  
*Credit: 3 semester hours.*

### 3810; 3820 Mathematical Theory of Probability and Statistics I; II

*Prerequisite:* MTH 2760. MTH 3810 is a prerequisite for MTH 3820. Introduction to probability; sample spaces, random variables and distributions; sampling distributions; parametric estimation and hypothesis testing; correlation and regression; special topics.  
*Credit: 3 semester hours.*

### 3840 Ordinary Differential Equations

*Prerequisite:* MTH 2760. First order equations, existence and uniqueness, Picard iteration, numerical methods. Linear algebra of linear systems and their solutions. Models, phase plane, nonlinear systems, stability.  
*Credit: 3 semester hours.*

### 3850 Partial Differential Equations

*Prerequisite:* MTH 3840. Discussion of first order equations; derivation and classification of second order equations; solution techniques of boundary value and initial value problems; applications. *Credit: 3 semester hours.*

### 3860; 3870 Numerical Analysis I; II

*Prerequisite:* MTH 2760. MTH 3860 is a prerequisite for MTH 3870. Errors; methods of interpolation; numerical solution of algebraic, transcendental and differential equations; least squares approximations; smoothing formulas, numerical solutions. Methods of solutions via computer software packages.  
*Credit: 3 semester hours.*

### 3970 Topics in Applied Mathematics

*Prerequisite:* Consent of instructor. Topics selected from areas such as mathematical physics, integral equations, Fourier analysis.  
*Credit: 3 semester hours.*

### 4830 Complex Variables

*Prerequisite:* MTH 3780. Analytic functions, power series, complex integration and Cauchy's Theorem, application of Cauchy's Theorem; Laurent Series and the Residue Theorem, evaluation of real integrals.  
*Credit: 3 semester hours.*

### 4903 Internship in Mathematics

*Restricted registration.* Fieldwork (eight hours per week) where students are afforded the opportunity of working in the professional field of mathematics, practice under the supervision and counseling of a faculty member.  
*Credit: 3 semester hours.*

### 4906 Internship in Mathematics

*Restricted registration.* Fieldwork (16 hours per week). See MTH 4970.  
*Credit: 6 semester hours.*

### 4910 Introduction to Set-Theoretic Topology

*Prerequisite:* MTH 3780. Basic topological concepts; continuous mappings; connectedness and compactness; metric spaces. *Credit: 3 semester hours.*

### 4920 Elementary Number Theory

*Prerequisite:* MTH 3780. Theory of Congruences; Diophantine equations; quadratic residues; properties of number theoretic functions. *Credit: 3 semester hours.*

### 4930 Functions of a Real Variables

*Prerequisite:* MTH 3780. Measure theory, integration, and selected topics in real analysis.  
*Credit: 3 semester hours.*

### 4940 Foundations of Mathematics

*Prerequisite:* MTH 2800. Sets of axioms and their properties; algebraic, geometric and numerical structures and their properties, Intuitionism, Formalism. *Credit: 3 semester hours.*

### 4950 Concepts of Geometry

*Prerequisite:* Consent of instructor. Axiomatic systems, projective, affine, Euclidean and non-Euclidean geometries. For mathematics or education majors with department approval.  
*Credit: 3 semester hours.*

### 4953 Independent Study

*Prerequisite:* MTH 3780 or consent of instructor. Guided research and reading on an individual basis. Students must submit to the Chair of the department for approval, prior to registration, an outline of subject areas to be researched or read, as well as written acceptance of a faculty member of their choice. For senior mathematics majors with departmental approval.  
*Credit: 1 to 3 semester hours.*

### 4960 Theory of Probability

Fundamentals of probability theory with emphasis on finite sample spaces. Combinatorics, random variables, distributions, limit theorems, introduction to stochastic processes. *Credit: 3 semester hours.*

### 4990 Senior Seminar

*Prerequisite:* MTH 3780 or consent of instructor. Reading and discussion of topics in current mathematics emphasizing the unification of the student's previous coursework. Term project. *Credit: 3 semester hours.*

## Computer Science Course Offerings (CSC)

### 1000 Introduction to Computing for the Liberal Arts

Computers for the non-specialist with an emphasis on microcomputers. Hardware and software principles; elementary programming in a current language; computer applications involving word processing, spreadsheets, database; personal and social impact of computers. Not applicable to the CSC major sequence. *Credit: 3 semester hours.*

### 1010; 1015 Computer Programming with Applications I; II

*Prerequisite:* CSC 1010 is a prerequisite for CSC 1015. Basic computer concepts. Programming of numeric and nonnumeric problems, computer application in various disciplines. *Credit: 3 semester hours.*

### 1020 Principles of Computer Science

*Prerequisite:* CSC 1000 or permission of instructor. The study of selected software packages to explore the capabilities of computer systems. Advanced Windows programs, database management systems, network and Internet software and elementary programming. *Credit: 3 semester hours.* (Staten Island)

### 1350 Commercial Computing

*Prerequisite:* CSC 1020. Applications of computer techniques to problems from business. The COBOL programming language; sorting, credit card billing, information retrieval, linear programming, inventory control, and queuing, sequential files, sorting and merging, table processing.  
*Credit: 3 semester hours.* (Staten Island)

### 1390 Computer Programming with Calculus Application

*Prerequisite:* MTH 1730. *Corequisite:* MTH 1740. Development of basic programming skills with an emphasis on calculus-related algorithms. Introduction to numerical analysis.  
*Credit: 3 semester hours.*

### 1400 Computer Science I

*Prerequisites:* CSC 1010 or 1390 and MTH 1740. Fundamentals of computing; Von Neumann architecture; program design, testing, correctness; object-oriented programming using the C++ programming language; program efficiency. *Laboratory, 1 hour. Credit: 3 semester hours.*

### 1410 Computer Science II

*Prerequisite:* CSC 1400. Object-oriented programming, problem correctness, algorithm analysis developed further; introduction to data structures-linked lists, stacks, queues, trees and graphs; overview of operating systems, distributed computing and databases.  
*Laboratory, 1 hour. Credit: 3 semester hours.*

### 1470 Advanced Programming

*Prerequisite:* CSC 1410. Design and implementation of large-scale systems. Documentation, testing and debugging techniques. Top-down structured programming and object-oriented programming and design.  
*Credit: 3 semester hours.* (Staten Island)

**2370 Data Communications**

*Prerequisite:* MTH 1740. Overview of data communications, networking, communications architecture and standards, data transmission, data encoding; digital data communications techniques; data link control; networking techniques; packet switching; protocols and architecture; and selected topics.  
*Credit:* 3 semester hours.

**2420 Logical Design and Computer Architecture**

*Prerequisite:* CSC 1410. Number systems and codes; number representation and arithmetic. basic logic design; combinational and sequential circuits; Boolean algebra; minimization techniques for completely and incompletely specified problems; introduction to computer architecture. *Credit:* 3 semester hours.

**2430 Computer Organization**

*Prerequisite:* CSC 1410. Machine and assembly languages; discussion of systems programs, including compilers, assemblers, loaders, editors and interpreters. *Credit:* 3 semester hours.

**2440 Compiler Design**

*Prerequisite:* CSC 2430. Compiler construction; symbol tables, lexical scanning, syntax analysis, memory allocation, object code generation, optimization techniques and interpreters.  
*Credit:* 3 semester hours.

**2450 Programming Languages**

*Prerequisite:* CSC 1410. Formal concepts and structures of programming languages with practice in different types of languages.  
*Credit:* 3 semester hours.

**2460 Simulation**

*Prerequisite:* CSC 1410. Generation of random numbers and variates; deterministic and probabilistic models; computer modeling and simulation systems with applications in selected areas. *Credit:* 3 semester hours.

**2470 Operating Systems**

*Prerequisite:* CSC 1410. Aspects of operating systems; memory managements and resource allocation, virtual memory, paging and segmentation, multiprogramming, scheduling, interrupt handling, thrashing, deadlock detection and prevention, and cache memory.  
*Credit:* 3 semester hours.

**2480 Algorithms and Data Structures**

*Prerequisite:* CSC 1410. Data and its representation; advanced treatment of the properties, applications and implementation of linear and non-linear linked lists, strings, arrays, stacks, queues, trees, graphs, algorithms for sorting, searching and hashing. Applications. *Credit:* 3 semester hours.

**2490 Databases**

*Prerequisite:* CSC 2480. Relational, hierarchical and network data base systems; file organization and access techniques; query and update languages; data security and integrity.  
*Credit:* 3 semester hours.

**2500 Data Security and Cryptography**

*Prerequisite:* CSC 1400. Methods for maintaining security and integrity of computer data; mathematical treatment of contemporary topics in cryptography; overview and selected topics in data security. *Credit:* 3 semester hours.

**2640 Networking I–TCP/IP**

*Prerequisite:* CSC 1020. An introduction to the TCP/IP protocols and the principles of networking. Topics include: ARP, RARP protocols: the IP addressing scheme: routing in networks; the UDP, TCP, ICMP protocols; subnet and supernet addressing extensions: internet multicasting; client-server model: TCP/IP over ATM; the Domain Name Service; applications such as FTP, SMTP, SNMP.  
*Credit:* 3 semester hours. (SI)

**2650 Networking II–UNIX**

*Prerequisite:* CSC 2640. The UNIX operating system including the UNIX filesystem, an introduction to the shell, UNIX commands, the X-windows system, installation of UNIX, day-to-day operations of a Unix system and managing user accounts.  
*Credit:* 3 semester hours. (SI)

**2660 Networking III–WINDOWS NT**

*Prerequisite:* CSC 2640. An introduction to the Windows NT architecture.  
*Credit:* 3 semester hours. (SI)

**2690 Internet Programming**

*Prerequisite:* CSC 1400. World Wide Web programming including HTML, CGI programming; perl and Java. *Credit:* 3 semester hours. (SI)

**2720 Computability and Automata**

*Prerequisite:* CSC 2450. Propositional logic, graphs and digraphs, alphabets, languages, deterministic and nondeterministic finite automata, regular expressions, language acceptors, grammars, Turing machines and computability. *Credit:* 3 semester hours. (SI)

**4903 Internship in Computer Science**

*Restricted registration.* Fieldwork (eight hours per week) where students are afforded the opportunity of working in the computer industry under the supervision and counseling of a faculty member. *Credit:* 3 semester hours. (SI)

**4906 Internship in Computer Science**

*Restricted registration.* Fieldwork (16 hours per week). See CSC 4903. *Credit:* 6 semester hours. (SI)

**4990 Seminar in Computer Science**

*Restricted registration.* Reading, discussion, and investigation of special topics in computer science. *Credit:* 3 or 4 semester hours. (SI)

**Philosophy (PHI)****Major Sequence**

36 semester hours including: PHI 1000C, 2200C, 3000C, 3400, 3500, 3510, 3520, 3530, 4990; plus three electives chosen from any PHI course offerings except PHI 2220 and 2240.

**Minor Sequences****Philosophy**

18 semester hours including: PHI 1000C, 2200, 3000C; and three electives chosen from any PHI course offering except PHI 2220 and 2240.

**Philosophy of Science**

18 semester hours including: PHI 1000C, 2200, 3000C, 3800; and two of the following: PHI 2320, 3810, 3820, 3720.

**Philosophy of Law**

21 semester hours including: PHI 1000C, 2200, 3000C, 3400, 3650; and two of the following: PHI 3420, 3540, 3660, 3740, and CLS 2600.

**Philosophy Course Offerings (PHI)****1000C Philosophy of the Human Person**

An investigation of the general question "What does it mean to be a human person?" Special emphasis on the nature of human freedom, consciousness and cognition, and the origin and significance of life. Central to the course will be a discussion of the spirituality, immortality and dignity of the human person. The course begins with an introduction to philosophy and to critical thinking.  
*Credit:* 3 semester hours.

**2200C Ethics**

*Prerequisite:* PHI 1000C. Human happiness and the essential means of achieving it; universal and objective morality vs. relativism and subjectivism; principles used in formulating a rational moral judgment; the functions of law and the conscience; prudence and the moral virtues as the heart of the moral life.  
*Credit:* 3 semester hours.

**2220C Moral Life and the Ethical Dimensions of Business**

*Prerequisite:* PHI 1000C. The development of the general principles of the moral life in regard to happiness and the means to attain happiness. The objective moral principles which impact on one's life in its various dimensions personal, familial, social and political. Special emphasis is placed on the application of ethical principles to accounting, economics, finance, management, and marketing. *Open to The Peter J. Tobin College of Business students only.*  
*Credit:* 3 semester hours.

**2240C Moral Life and the Ethics of Health Care**

*Prerequisite:* PHI 1000C. A discussion of the nature of human happiness and the development of moral principles and their impact on one's life in its various dimensions: personal, familial, social, political and professional. The application of these principles to ethical issues as they arise in medical practice and the practice of pharmacy. *Credit:* 3 semester hours.

**3000C Metaphysics**

*Prerequisite:* PHI 1000C. An introductory course which attempts to articulate ultimate principles of knowing and being. Central questions to be considered are: Is there evidence of God's existence and correspondingly, is there a solution to the problem of evil? Does human cognition permit of ultimate foundations? Is nature teleological and if so can it serve as an objective standard of value? The course also considers traditional metaphysical aspirations in the context of contemporary challenges from the physical and social sciences.  
*Credit:* 3 semester hours.

## **2320 Science and Religion:**

### **A Philosophical Analysis**

*Prerequisites:* PHI 1000C and three credits in the physical/biological sciences. A study of the relation between science and religion through an examination of the criteria for determining the optimal interrelation, their historical interactions and current debates concerning their interconnection. *Credit: 3 semester hours.*

### **2330 Introduction to Feminist Philosophy**

*Prerequisite:* PHI 1000C. A general introduction to both the past history as well as current concerns of feminist theory. The readings for the course will cover classic feminist texts (Wollstonecraft, Mill, Engels) as well as contemporary Feminist thinkers, covering questions about the experiences of women in the treatment of methodology, metaphysics, theory of knowledge, philosophy of science, and philosophy of mind. *Credit: 3 semester hours.*

### **3400 Introduction to Logic**

A study of the elementary and advanced forms of deductive argumentation in both traditional logic and the modern logic of propositions. *Credit: 3 semester hours.*

### **3420 Informal Logic**

Application of principles of logic to law, politics, arts, science, advertising, ethics and media. Special emphasis on developing skill of detecting informal fallacy. *Credit: 3 semester hours.*

### **3500 History of Ancient Philosophy**

A survey of ancient Greek philosophy from its origin up to the 4th century A.D. Emphasis is on pre-Socratic period, Plato, Aristotle, Scepticism, Epicureanism, Stoicism and neo-Platonism. *Credit: 3 semester hours.*

### **3510 History of Medieval Philosophy**

A survey of the development of medieval philosophy with special emphasis on the principal philosophers: St. Augustine, St. Anselm, St. Bonaventure, St. Thomas Aquinas, John Duns Scotus and William of Ockham. *Credit: 3 semester hours.*

### **3520 History of Modern Philosophy**

*Prerequisite:* PHI 3000C or permission of instructor. An examination of the central epistemological and metaphysical issues of modern philosophy. *Credit: 3 semester hours.*

### **3530 History of Contemporary Philosophy**

*Prerequisite:* PHI 3000C or permission of instructor. The development of modern contemporary philosophical thought from Hegel to the present. The fundamental views of such 20th century thinkers as Heidegger, Sartre, Husserl, Russell, Moore, Ayer, Popper, Gilson, Maritain, Wittgenstein and Rorty are introduced. Various philosophic methods and models are analyzed. *Credit: 3 semester hours.*

### **3540 American Philosophy**

*Prerequisite:* PHI 3000C. The classic expressions of the American Pragmatic movement in the writings of C.S. Peirce, William James, and John Dewey are presented with reference to cultural context and subsequent developments. (e.g. Founding Fathers, Emerson, Thoreau, Henry James, Martin Luther King, Jr., Richard Rorty). *Credit: 3 semester hours.*

### **3550 Existentialism**

*Prerequisite:* PHI 3000C. A general survey of the history and the main themes of the Existentialist movement; an analysis of relevant texts by major existentialist philosophers and an attempt at constructing an existentialist philosophy of person. *Credit: 3 semester hours.*

### **3560 Themes in the Philosophy of Aquinas**

*Prerequisite:* PHI 3000C. A critical examination of the philosophy of St. Thomas Aquinas based on texts which illustrate the scope and originality of his thought. *Credit: 3 semester hours.*

### **3570 Personalism**

*Prerequisite:* PHI 2200. This course explores some of the leading personalist philosophers of the past one hundred years such as Martin Buber, John MacMurray, Emmanuel Mounier, and Gabriel Marcel. Jacques Maritain's view of person is also discussed. There is an in depth discussion of love, fidelity, promises, vows and the possibility of a life commitment. *Credit: 3 semester hours.*

### **3580 Major Women Philosophers of the 20th Century**

*Prerequisite:* PHI 1000C. This course examines the philosophical perspectives of Edith Stein, Hannah Arendt, Simone de Beauvoir, Ayn Rand, Iris Murdoch and Martha Nussbaum. Discussions include their roles in the history of philosophy and contributions to feminist thought. *Credit: 3 semester hours.*

### **3590 Confucianism and Taoism**

*Prerequisite:* PHI 3000C. Readings of texts in Confucianism and Taoism that have shaped the philosophical traditions in China, Korea and Japan. Topics explored include the dignity and moral destiny of the person, the unity and harmony between humans and nature and the aesthetic and religious components in human experience. *Credit: 3 semester hours.*

### **3600 Problem of God**

*Prerequisite:* PHI 3000C. The background, beginning with the 17th century, of present-day opinion concerning the existence of God; the nature of a realistic philosophy of God; the examination of proofs of God's existence; a study of influential atheists and a presentation of a contemporary philosophy of God. *Credit: 3 semester hours.*

### **3610 Philosophy of Religion**

*Prerequisite:* PHI 3000C. This course compares and contrasts the metaphysical foundations of religion as they are found in perennial, modern, and contemporary philosophies. *Credit: 3 semester hours.*

### **3630 Epistemology**

*Prerequisite:* PHI 1000C. An examination of the fundamental nature of human knowledge—its mode of existence, sources and validity. Classical, modern and contemporary approaches to knowledge are addressed. *Credit: 3 semester hours.*

### **3640 Aesthetics**

*Prerequisite:* PHI 1000C. A philosophical investigation into the meaning of the transcendental beauty. The nature, principles and end of artistic work as it relates to society, as well as the role of artist and aesthete. *Credit: 3 semester hours.*

### **3650 Philosophy of Law**

*Prerequisite:* PHI 3000C. A critical examination of the central issues in contemporary legal philosophy. Major themes include: the nature of legal reasoning; the relationship of law and morality; the recent development of legal hermeneutics, and the justification of punishment. A central concern of the course is to understand how legal institutions evolve, an evolution which is both faithful and yet progressively responsive to Constitutional ideals. *Credit: 3 semester hours.*

### **3660 Political Philosophy**

*Prerequisite:* PHI 2200. An investigation of the standards and procedures for political legitimation, including an analysis of the following: the common good of the political community, the greatest good for the greatest number, the promotion of virtue, and agreement resulting from a social contract or ideal discourse. Special attention is given to an examination of the nature, function, and justification of "rights." *Credit: 3 semester hours.*

### **3700 Contemporary Moral Problems**

*Prerequisite:* PHI 2200. The response to authentic moral values in man's inter-personal existential encounter with modern life and its moral problems. Among the topics treated are: the dignity of the human being, sex, abortion, birth control, sterilization, lying, racial discrimination, free speech, labor unions, Socialism, Communism, war and peace. *Credit: 3 semester hours.*

### **3710 Medical Ethics**

*Prerequisite:* PHI 2200. A critical analysis of current problems in social and medical ethics, with an effort to resolve these problems where possible in the light of a realistic ethical and social philosophy. *Credit: 3 semester hours.*

### **3720 Environmental Ethics**

*Prerequisite:* PHI 2200. A philosophical investigation of the environment and its relationship to the human person. Special emphasis is placed on the moral issues that arise from that relationship such as the moral standing of non-humans and the responsibility of the present generation to future generations. *Credit: 3 semester hours.*

### **3740 Social Justice**

*Prerequisite:* PHI 2200. An investigation of social justice issues in the contemporary postmodern world. The course discusses how various philosophical theories and historical perspectives can aid or distort our understanding of social justice and its concretization. *Credit: 3 semester hours.*

### **3800 Philosophy of Science**

*Prerequisite:* PHI 3000C and three credits in the physical/biological sciences. The logic and methodology of science with special emphasis on the theory ladenness of observation, the nature and structure of scientific theories and the verification/falsification of laws and theories. *Credit: 3 semester hours.*

### **3810 Philosophy of Physical Sciences**

*Prerequisite:* PHI 3000C and three credits in the physical/biological sciences. A study of the fundamental philosophical issues that have arisen in the history of physics, astronomy and cosmology. *Credit: 3 semester hours.*

**3820 Philosophical Issues in Biology**

*Prerequisites:* PHI 3000C, and three credits in the physical/biological sciences. An issue-oriented investigation of the methods and results of the science of biology. Among the issues discussed are the fact of evolution, theories of evolution, teleological explanations, reductionism and organism, taxonomy and the uniqueness of method in biology. *Credit:* 3 semester hours.

**3900 Philosophy of Literature: Meaning, Mystery and Metaphysics in the Catholic Novel**

*Prerequisite:* PHI 1000C. A philosophical probe into the nature of meaning, mystery and metaphysics in relation to the truth contained in literature, more specifically stories and most specifically the Catholic novel. The course explores the philosophical outlook of novelists such as Graham Greene, Evelyn Waugh, Francois Mauriac, George Bernanos, Walker Percy, Morris West and Flannery O'Connor. *Credit:* 3 semester hours.

**3910 Philosophy of Language**

*Prerequisite:* PHI 3000C. An introductory course covering such topics as the ideational, referential and behavioral theories of linguistic meanings; translation and indeterminacy; realism and anti-realism. Special concerns of this course are the relationship between language and mind; the relationship between semantics and pragmatics. *Cf. LIN3910.* *Credit:* 3 semester hours.

**4953 Reading and Research**

*Restricted registration.* Guided research and reading for the special needs of an individual student which cannot be met by regular scheduled course offerings of the Department. Prior to registration, the student must submit to the Department Chair a written outline of the area(s) to be researched or read, together with the written acceptance of the project by a faculty member of the department. *Open only to juniors and seniors. Approval of the Department Chair is required.* *Credit:* 3 semester hours.

**4990 Seminar in Philosophy**

*Prerequisite:* PHI 3000C. *Credit:* 3 semester hours.

**Physics (PHY)****Major Sequences****Physics**

31 credit hours of physics, including: PHY 1930, 1940, 1950, 1970, 2460, 3210, 3221 and 3330, and two elective upper level courses within the department. PHY 1950 is waived for students having a prior calculus course. PHY 1610-1620 may be substituted for PHY 1930-1940 with permission from the Department Chair.

At least 15 credit hours in mathematics, MTH 1730, 1740, 2750, and 3840. Elective courses in mathematics and computer science are recommended.

**Mathematical Physics**

23–26 credit hours of physics including: PHY 1930, 1940, 1950, 1970, 2460, 3210, 3310, and 3330. PHY 1950 is waived for students having a prior calculus course. College Physics I-II (PHY 1620–1630) may be substituted for PHY 1930–1940 with permission from the physics chairperson.

At least 19 credit hours in mathematics and computer science, including MTH 1730, 1740, 2750 and 2760, and CSC 1390.

At least one elective upper level course in mathematics or physics approved by the advisor.

**Physical Science**

37 semester hours including: PHY 1930, 1940, 1950, 1970, and 23 elective credits approved by the department. PHY 1950 is waived for students having a prior calculus course.

**Engineering and Physical Science**

The Engineering Program is a five-year curriculum offered jointly by St. John's University and Manhattan College. The first three years of pre-engineering studies are taken at St. John's University. Students attaining a minimum quality point index of 2.5 and other requirements are then admitted to Manhattan College for the last two years of engineering studies in any of the undergraduate curricula. Both a B.S. degree from St. John's and a B.E. degree from Manhattan College are awarded when the student successfully completes the program.

During their first three years candidates complete general requirements for a Bachelor of Science degree and the following: PHY 1930, 1940, 1950, 1970, 2110, 2150, 3221, 3510; CSC 1010 or 1390, MTH 1730, 1740, 2750 and 3840; PHY 1950 is waived for students having a prior calculus course. A few additional courses (usually two or three) will be specified by the Physics Department in accordance with the student's preparation and chosen engineering discipline. It may be necessary for students to take summer courses to complete the program in five years.

To assure an orderly sequence of studies, students must have the approval of the Physics Department for each semester's courses. Some modifications of the requirements can be accepted when approved by the Physics Department and by Manhattan College.

**Physical Science Certificate Program**

The Physical Science Certificate Program is a two-year sequence that provides flexible options for the student interested in engineering, physics, or mathematics. The program is intended to provide the first two years toward a degree in engineering, physics, or mathematics. Students attaining a minimum

quality point index of 2.5 and 62 credits of course requirements are awarded the Physical Science Certificate. This certifies that the student is prepared to continue with several options:

- (1) Continue at St. John's University to complete a B.S. degree in physics, physical science, mathematical physics, or mathematics;
- (2) Transfer into the third year of an engineering college and complete an engineering degree;
- (3) Continue in St. John's 3–2 engineering program and receive two degrees, a B.S. in physical science from St. John's College and a B.E. degree from the engineering school.

Candidates take 18 credits of Core requirements and the following: PHY 1930, 1940, 1950, 1970, 2110, 2150, 3210, 3230; CSC 1010 or 1390, MTH 1730, 1740, 2750, 2760. PHY 1950 is waived for students having a prior calculus course. Additional courses will be specified by the Physics Department in accordance with the student's preparation and career interest.

*To assure an orderly sequence of studies, students must have the approval of the Physics Department in St. John's College for each semester's courses. Some modifications of the requirements can be accepted when approved by the department.*

**Minor Sequence**

16 semester hours including: PHY 1610, 1620 or PHY 1930, 1940 with remaining credits from PHY courses selected under department advisement.

**Physics Course Offerings (PHY)****1020 Physics in Words and Pictures**

A survey of modern physics without math. Words and pictures illustrate our current concepts of the laws of nature. These are used to explain various everyday phenomena, the scientific view of the cosmos, and elements of modern technology. *No prior study of physics is required.* *Credit:* 3 semester hours.

**1030 Principles of Contemporary Science**

A non-mathematical treatment of the fundamental scientific principles of the physical world; the nature of matter and energy, atoms and nuclei; fundamentals of our knowledge of the earth and the universe; influence of natural sciences on human thought and society. *No prior study of physics is required.* *Credit:* 3 semester hours.

**1060 Introduction to Astronomy**

A non-mathematical perspective of Astronomy: solar system, stars and their evolution, nebulae and supernovae, galaxies and the universe. *No prior study of physics is required.* *Credit:* 3 semester hours.

### 1080 Our Planet

An integrated, descriptive study of our planet, stressing the principles of plate tectonics. The topics include the origin and history of the earth, volcanoes and earthquakes, continental drift, environmental geology and astrogeology. *No prior study of physics required. Credit: 3 semester hours.*

### 1090 The Science of Weather

The structure of Earth's atmosphere and its energy exchanging processes. Cloud formation, air-masses, cyclones and anticyclones; thunderstorms, tornadoes and hurricanes. Weather prediction and modification. *No prior study of physics required. Credit: 3 semester hours.*

### 1120 Energy and Environment

A comprehensive study of energy production, distribution, and consumption. Physical principles and technological problems. Environmental aspects; energy crisis, past and future. Future energy sources and their management. *No prior study of physics required. Credit: 3 semester hours.*

### 1140 Introduction to Space Science

A survey of man's exploration of space. Principles of rocketry and spaceflight. Artificial satellites, deep space probes and exploration of planets. Manned space flight. Future spaceships, space-stations, colonies in space. *No prior study of physics required. Credit: 3 semester hours.*

### 1170 Universe: Introduction to Scientific Cosmology

Relativity theory and the description of gravity as a space-time warp; Big Bang cosmology and the expanding universe; the formation of galaxies and stars; gravitational collapse and black holes. *No prior study of physics required. Credit: 3 semester hours.*

### 1210 Planet Earth-Form and Structure

Earth's continents, oceans and abundant surface features are interpreted in terms of the planet's turbulent but orderly interior. Earth is treated as a dynamic system. *Credit: 3 semester hours.*

### 1220 Planet Earth-Historical Geology

Evolution of the earth through time as revealed in fossils, rocks, radioactive materials and other evidence. The planet's history is reconstructed from these clues. *Credit: 3 semester hours.*

### 1430 Introduction to Physics

A survey of mechanics, including falling body and collision problems; an introduction to gases, fluid flow, heat, sound and light. Problem-solving is limited to simple algebra. Applications to biology and medicine. *Credit: 3 semester hours.*

### 1440 Physics Theory I

*Prerequisite: Calculus.* An introductory course in the study of the basic theories in classical mechanics, work and energy, heat, sound and wave mechanics. Basic principles and concepts are stressed over applications. *Open to non-science majors only. Credit: 4 semester hours.*

### 1450 Physics Theory II

*Prerequisite: PHY 1440.* A continuation of Physics Theory I, introducing the basic theories of light, optics, electricity, magnetism and atomic and nuclear physics. Basic principles and concepts of classical and modern physics are stressed throughout. *Open to non-science majors only. Credit: 4 semester hours.*

### 1520 Earth Science

An integrated study of the basics of astronomy, physical geography, cartography, meteorology and oceanography. *Credit: 3 semester hours.*

### 1530 Time Traveling (Mini-Course)\*

A survey of time including: the dawn of time; laws linking past, present and future; aging and time's arrow; stargazing into the past; freezing time; the quantum cat and time travel in the many-worlds interpretation; slowing time with speed and gravity; time reversal and antimatter. *No prior study of physics is required. Not applicable to major sequence. Credit: 3 semester hours.*

### 1610; 1620 College Physics I; II

*Prerequisite: PHY 1610 is a prerequisite for PHY 1620. Corequisite: PHY 1611 Laboratory and PHY 1612 Recitation are corequisites for PHY 1610. PHY 1621 Laboratory and PHY 1622 Recitation are corequisites for PHY 1620. First Semester: An introduction to mechanics, heat, waves and sound. Second Semester: An introduction to optics, electricity and magnetism, atomic and nuclear physics. Appropriate for biology majors. Not open to chemistry, physics or mathematics majors in St. John's College. Lecture, 3 hours. Laboratory, 2 hours. Recitation, 1 hour. Credit: 4 semester hours per semester. Laboratory fee, \$25 per semester.*

### 1930; 1940 University Physics I; II

*Prerequisite: PHY 1930 is a prerequisite for PHY 1940. Corequisite: PHY 1950 or MTH 1730. PHY 1931 Laboratory and PHY 1932 Recitation are corequisites for PHY 1930. PHY 1941 Laboratory and PHY 1942 Recitation are corequisites for PHY 1940. First Semester: Fundamentals of mechanics, heat, fluids, wave-motion and sound, utilizing calculus. Second Semester: Fundamentals of optics, electricity and magnetism, atomic and nuclear physics, utilizing calculus. Lecture, 3 hours. Laboratory, 2 hours. Recitation, 1 hour. Credit: 4 semester hours per semester. Laboratory fee, \$25 per semester.*

### 1950 Mathematics for Physical Science

*Corequisite: PHY 1952 Recitation.* Analytic geometry, differential and integral calculus applied to physics and engineering. *Lecture, 3 hours. Recitation, 1 hour. Credit: 3 semester hours.*

### 1970 Introduction to Modern Physics

*Corequisite: PHY 1620/1940, and 1972 Recitation.* The structure and properties of atoms, molecules, and nuclei, X-rays, gamma-rays, natural and artificial radioactivity. Nuclear fission and fusion, nuclear energy production; special relativity and elementary particles. *Lecture, 3 hours. Recitation, 1 hour. Credit: 3 semester hours.*

### 2110 Engineering Mechanics

*Prerequisite: PHY 1620 or 1940. Corequisite: PHY 2112 Recitation.* Statics; including vector formulations, trusses, and distributed loads. Basic kinematics and dynamics of particles, systems of particles, and rigid bodies; work and energy; impulse and momentum; conservation laws. Emphasis on engineering applications. *Lecture, 3 hours. Recitation, 1 hour. Credit: 3 semester hours.*

### 2150 Thermodynamics

*Prerequisite: PHY 1620 or 1940.* The study of heat, work, and the various forms and transformations of energy. The First and Second Laws of Thermodynamics applied to engines, phase transformations, chemical reactions, and radiation. An introduction to statistical mechanics. *Credit: 3 semester hours.*

### 2460 Analytical Mechanics

*Prerequisite: PHY 1620 or 1940 and calculus.* The fundamentals of classical mechanics. Topics include motion of a particle, conservation of energy, momentum and angular momentum, Lagrange and Hamilton equations, configuration and phase space, orbital mechanics. *Credit: 3 semester hours.*

### 3100 Biological Physics

*Prerequisites: PHY 1620 or 1940 and calculus.* The physical laws most relevant to life. Energy and its transformation in organisms; Information and the programming of life processes; Entropy and the creation of order by living systems; Quantum mechanics and its role in chemistry and in the mutability and permanence of life. *Credit: 3 semester hours.*

### 3210; 3220 Electricity and Magnetism I; II

*Prerequisite: PHY 1620 or 1940. PHY 3210 is a prerequisite for PHY 3220. Corequisite: MTH 2760. First semester: The study of electrostatics, conductors and dielectrics, using vector algebra and calculus; direct currents and circuit analysis. Second semester: Magnetism, electromagnetic induction, alternating currents; Maxwell's equations, electromagnetic waves. Credit: 3 semester hours.*

### 3221 Electricity and Magnetism Laboratory

*Prerequisite: PHY 3210.* Selected experiments demonstrating the principles and applications of electricity and magnetism. *Laboratory, 4 hours. Credit: 2 semester hours. Laboratory fee, \$25.*

### 3240 Basic Electronics

*Prerequisite: PHY 1450 or 1600 or 1620 or 1940. Corequisite: PHY 3241 Laboratory.* An introduction to the principles of electrical measurements and electronics. The use and operation of vacuum tubes and transistors, amplifiers, rectifiers, oscillators and modulators. Application to instrumentation in both physical and bio-medical fields, including transducers, recorders and read-out devices. *Lecture, 3 hours. Laboratory, 2 hours. Credit: 4 semester hours. Laboratory fee, \$25.*

### 3250 Optics

*Prerequisites: PHY 1620 or 1940 and calculus or PHY 1950.* The optics of lenses and mirrors, cameras, corrective lenses, telescopes, magnifiers, microscopes. Wave theory of light, with applications: interferometry, diffraction patterns, polarization, spectroscopy, dispersion, fiber optics, holography. *Credit: 3 semester hours.*

**3251 Optics Laboratory**

*Corequisite:* PHY 3250. Selected experiments in Optics. *Laboratory, 4 hours. Credit: 2 semester hours. Laboratory fee, \$25.*

**3270; 3280 Atomic and Nuclear Physics I; II**

*Prerequisite:* PHY 3270 is a prerequisite for PHY 3280. *Corequisite:* PHY 3210 and 3220 or permission of the instructor. Structure and properties of atoms, molecules, and nuclei; foundations of Quantum Theory and the Theory of Relativity; emission and absorption of radiation; foundations of Solid State Theory; radioactivity, fission, fusion, Elementary Particle Theory. *Credit: 3 semester hours.*

**3291 Atomic and Nuclear Physics Laboratory**

*Corequisite:* PHY 3270. Selected experiments in atomic and nuclear physics. *Laboratory, 4 hours. Credit: 2 semester hours. Laboratory fee, \$25.*

**3310 Methods of Theoretical Physics**

*Prerequisite:* PHY 1940, MTH 1730. *Corequisite:* MTH 1740. Selected mathematical methods used in theoretical physics. Complex variables; Fourier Series; Laplace Transformation; vectors, matrices and eigenvalue problems. Applications to ordinary and partial differential equations. *Credit: 3 semester hours.*

**3330 Quantum Theory**

*Prerequisite:* PHY 3270. *Corequisite:* MTH 2760. Description of atomic systems by state vectors; probability amplitudes, superposition and interference; matrices and operators. Topics include: the wave and matrix formulations of quantum physics, commutation relations, symmetries and conservation laws; angular momentum and spin, perturbation theory, and applications. *Credit: 3 semester hours.*

**3510 Electrical Systems**

*Prerequisites:* PHY 1940 or PHY 1620, and MTH 1740. This is the foundation course for analyses of electrical circuits. Topics include mesh analysis, node analysis, Thevenin's theorem, Norton's theorem, and superposition. Applications are made to direct current circuits. Transient dynamics and alternating current circuits are introduced and analyzed. *Credit: 3 semester hours.*

**3520 Networks**

*Prerequisite:* PHY 3510. This is the basis for most advanced courses in electrical engineering. It is divided into two parts: Part 1 deals with ac circuits, impedance, phasors, sinusoidal steady-state analysis, ac power, rms values, three phase systems, and frequency response. Part 2 is devoted to advanced techniques for network analysis. It provides an introduction to the Laplace transform, Fourier series, the Fourier transform, and two-part network analysis. *Credit 3: semester hours.*

**3900 Special Topics**

Advanced or contemporary topics announced each semester. Topics may include: Lagrange and Hamiltonian Dynamics, Information Theory and Statistical Physics, Methods of Quantum Physics, Fundamental Particle Physics and Solid State Physics. *These and other special topics require department approval. Credit: 3 semester hours.*

**4350 Seminar**

*Credit: 2 or 3 semester hours.*

**4953 Independent Study**

*Restricted registration.* Guided reading and investigation of an area of science of special interest to a student and faculty member. *Before registering for this course a student must obtain assurance of a faculty member's supervision. Credit: 2 to 4 semester hours.*

**Psychology (PSY)**

Students are required to take all courses in the psychology major in the Psychology Department of St. John's College once they declare the major.

**Major Sequence**

38 semester hours including: PSY 1000, 2030, 2040, 2150, 3260, 3800, 4990. In addition, majors must choose one course from each of the groupings below:

**Group 1–Abnormal/Personality/Social Psychology**

PSY 2200, 2210, 2220, 3320

**Group 2–Developmental Psychology**

PSY 2070, 2080, 2090

**Group 3–Experimental Psychology**

PSY 3270, 3280, 3290

Majors must also choose two elective courses from the remainder of the department's course offerings (including those not selected from the three-course groupings listed above).

Students wishing to pursue graduate training in psychology should take PSY 3040 (Experimental Psychology Laboratory) as one of their electives. Psychology majors are required to take PSY 1020 and 2030 as their first two courses. PSY majors are urged to take BIO 1050 and 1060 as well as PHI 3800 and elective credits in related social sciences, ANT 1010 or SOC 1010, for example.

It is advantageous for the student wishing to pursue graduate work in PSY to have completed or be in the process of completing all the required courses by the fall semester of the senior year when the GRE is usually taken. In addition, it is advisable for students wishing to pursue graduate work in PSY to accelerate the major sequence and elect more than the minimum number of credits in the major, but not to exceed 12 credits above the minimum credits required.

**B.A./M.A.**

Students admitted into the accelerated B.A./M.A. program in psychology take, in addition to their liberal arts core requirements and B.A. free electives, 28 undergraduate and 15 graduate courses in psychology and three graduate credits outside of the department. In their fifth year, students pursue full-time graduate work completing the balance of credits necessary to meet all degree requirements. Eligibility requires a 3.5 cumulative index with a 3.5 index in PSY. For additional program information consult the St. John's University Graduate Bulletin.

**Minor Sequence**

18 semester hours: PSY 1000; two courses from PSY 2030, 2040, 2150, 3260, 3270, 3290, 3800; two courses from 2070, 2080, 2090, 2200, 2210, 2220, 2230 and one additional course from among the courses offered by the department. Students are required to take all courses in the psychology minor in the Psychology Department of St. John's College once they declare the minor.

**Psychology Course Offerings (PSY)****Introductory****1000 Introductory Psychology**

An introduction to scientific psychology and its methods. The course presents a survey of the major areas within the discipline of psychology, including the psychology of personality, abnormal behavior, learning, sensation and perception, social processes, states of consciousness, individual differences, thinking, language and human development. *Credit: 3 semester hours.*

**Research Methods****2030 Statistical Methods for the Social Sciences**

Methods for describing and evaluating research data including measures of central tendency, dispersion, relationships and hypothesis testing by means of t-tests, Chi Square tests, analysis of variance and some non-parametric tests. A laboratory will accompany this course giving students experience using statistical software. This course should be taken the first semester after declaring the psychology major. *Credit: 4 semester hours.*

### **2040 Research Methods in Psychology**

*Prerequisites:* PSY 1000 and 2030. An overview of the methods and procedures of psychological science. Observational, survey, correlational, experimental and quasi-experimental approaches to research are covered. The application of theory and hypothesis to the design and analysis of research is stressed. Practicum work focuses on studies of human behavior and how to write research reports using the style manual of the American Psychological Association. *This course should be taken in the semester following the completion of PSY 2030.*  
*Credit: 4 semester hours.*

### **3040 Experimental Psychology Laboratory**

*Prerequisite:* PSY 2040. Student experimentation and supervised research; group projects involving original research; participation in ongoing research projects. *Laboratory, 6 hours. Credit: 3 semester hours.*

### **3260 Introduction to Psychological Measurement**

*Prerequisites:* PSY 1000 and 2030. An overview of basic principles of measurement theory with emphasis on psychological testing.  
*Credit: 3 semester hours.*

## **Developmental Psychology**

### **2050 Educational Psychology**

A study of intellectual functioning, individual differences, problems of learning and motivation. *Credit: 3 semester hours.*

### **2070 Child Psychology**

A study of the physical, intellectual, emotional and social aspects of development through childhood, with emphasis on major developmental constructs and theories.  
*Credit: 3 semester hours.*

### **2080 Adolescent Psychology**

Physical, intellectual, emotional and social aspects in the development of the individual in the transitional period between childhood and maturity. *Credit: 3 semester hours.*

### **2090 The Psychology of Adult Development**

A consideration of the years between adolescence and old age with particular emphasis on the findings of contemporary psychological research.  
*Credit: 3 semester hours.*

## **Abnormal, Personality, and Social Psychology**

### **2200 Abnormal Psychology**

*Prerequisite:* PSY 1000. An introduction to abnormal psychology dealing with the major causes of abnormal psychological behavior and their treatments. *Credit: 3 semester hours.*

### **2210 Theories of Personality**

An introduction to significant theories of personality and a critical evaluation of these theories. *Credit: 3 semester hours.*

### **2220 Child and Adolescent**

#### **Psychopathology**

*Prerequisite:* PSY 1000. This course considers the major diagnostic, etiologic and treatment issues for and psychological disorders of childhood and adolescence. The developmental course of each disorder and the role of biological, psychological and sociocultural factors and their interaction with the environment will be addressed.  
*Credit: 3 semester hours.*

### **2230 Psychology of the African American Experience**

This course examines the contexts that shape the psyche of African Americans. This course examines the effect of the history of psychology and its cultural underpinnings on the psychological study and evaluation of African Americans as a distinct cultural group. The psychological residuals of involuntary immigration, slavery, segregation and discrimination and social trauma will be explored. *Credit: 3 semester hours.*

### **3220 Introduction to Clinical Psychology**

*Prerequisites:* PSY 1000 and 2220. An introduction to clinical psychology including history, development of models and their application, assessment and treatment.  
*Credit: 3 semester hours.*

### **3320 Social Psychology**

*Prerequisite:* PSY 1000. Examines the scientific study of how real, imagined or anticipated actions or evaluations by others influence our thoughts, feelings or behavior. Topics include: the psychology of research participation, attitudes, attitude change, persuasion, conformity, compliance, stereotypes and prejudice, liking and attraction, intimate relationships, group processes, social perception and cognition, the social self, helping others, hurting others and conflict resolution. *Credit: 3 semester hours.*

### **3330 Industrial and Personnel Psychology**

*Prerequisite:* PSY 1000. Psychological aspects of individual differences, efficiency, working conditions, accident prevention, human engineering, industrial mental health and counseling. *Credit: 3 semester hours.*

## **Experimental Psychology**

### **2150 Physiological Psychology**

*Prerequisite:* PSY 1000. An introduction to the anatomy and physiology of the nervous system, sensory and motor systems and endocrine system in relation to normal and abnormal behavior. *Credit: 3 semester hours.*

### **3270 Experimental Psychology of Learning**

*Prerequisites:* PSY 1000 and 2030. An exposition of contemporary learning theory from the viewpoint of classical and operant conditioning, including interpretation of the role of drives and motives and concepts of generalization, discrimination, emotions, and higher forms of learning.  
*Credit: 3 semester hours.*

### **3280 Cognitive Psychology**

*Prerequisite:* PSY 1000. Examines the scientific study of the acquisition, processing, storage, retrieval and use of information. Topics include: perception, attention, forms of memory, memory effectiveness, imagery, spatial knowledge, language, concepts, reasoning, problem solving, judging and deciding, expertise, creativity, aging and cognition and unconscious cognitive functioning.  
*Credit: 3 semester hours.*

### **3290 Experimental Psychology of Sensation and Perception**

*Prerequisites:* PSY 1000 and 2030. *Prerequisite or corequisite:* PSY 2150. Introduction to the concepts, methods and findings of classical and modern psychophysics as they relate to providing an understanding of the sensory systems and the processing of sensory information. *Credit: 3 semester hours.*

## **Specialized and Advanced Courses**

### **2100 Altered States of Consciousness and Parapsychological Events**

A selective examination of research and theory concerning altered states (such as meditative and drug-induced states, dreaming, hypnosis, various kinds of "trances" and "peak experiences"), extrasensory perception, psychokinesis and possible interrelationships of these areas. *Credit: 3 semester hours.*

### **3800 History and Systems of Psychology**

*Prerequisites:* PSY 1000 and at least nine other PSY credits. The evolution of psychology from its philosophical and physiological roots to its current status as science and profession. Review of major schools and theories, contributions of noted investigators and significant advances. *Credit: 3 semester hours.*

### **4903 Fieldwork in Psychology**

*Prerequisites:* At least 12 credits in PSY. Placement in a social service agency for six to eight hours per week of volunteer work. Individual and group meetings with the instructor. Social service agency includes, but is not limited to, psychiatric hospitals, institutions for the exceptional children and adult, homes for the elderly, halfway houses and crisis intervention centers. *Credit: 3 semester hours.*

### **4953 Independent Study**

*Prerequisites:* PSY 2040 and permission of faculty member. Independent work in an area of the student's own selection under the guidance of a faculty member.  
*Credit: 3 semester hours.*

### **4990 Seminar**

*Prerequisites:* PSY 2040 and at least 21 additional credits in PSY. A cap-stone course involving research and discussions on select psychological topics and problems.  
*Credit: 3 semester hours.*

## **Social Studies (Staten Island campus)**

Students interested in pursuing this program should consult the History section of this bulletin and/or contact the Staten Island Dean's Office for details.

## Sociology (SOC)/ Anthropology (ANT)

### Major Sequences

#### Sociology

33 semester hours, including SOC 1010, 2610, 3240, 4270, 4990; ANT 1010 and 15 elective hours in SOC and/or ANT. Under advisement, select human services courses are applicable to the major.

#### Sociology B.A./M.A.

Qualified students admitted to the 5-year B.A./M.A. program in SOC are required to complete SOC 1010, 1170, 2610, 3240, 4270, 4990, plus a minimum of three undergraduate elective hours in SOC. The remaining 18 semester hours in SOC must include a minimum of 12 graduate credits by the end of senior year. Eligibility requires a 3.0 overall index with a 3.5 in the major. For specific master's degree program requirements, consult the St. John's University Graduate Bulletin.

#### Anthropology

30 semester hours, including ANT 1000, 1010, 1020, 4990, SOC 1010, 2610, 4270 and nine semester hours in ANT.

### Special Note for Double Majors

A student may major in both SOC and ANT. However, only SOC 1010 may be used to satisfy both major sequences. A double major must complete a total of 60 semester hours in SOC and ANT.

### Minor Sequences

#### Sociology

18 semester hours, including SOC 1010 and 15 elective credits in SOC. All social science majors may satisfy the requirements for this minor with 15 credits, including SOC 1010 and 12 elective credits in SOC.

#### Anthropology

18 semester hours: ANT 1010 and 1020 and the remaining credits from other ANT course offerings.

#### Social Work

18 semester hours, including SOC 1030, 1090, 4530, and the remaining credits from other SOC offerings. Under advisement, HSE courses may apply to the minor. However, all HSE students must take SOC 1030. All social and behavioral science majors may satisfy the requirements for this minor with 15 credits in addition to their major requirements.

## Sociology Course Offerings (SOC)

### 1010C Introduction to Sociology

The study of human interaction. The influence of groups, organizations and culture on ways of thinking, acting, feeling and on values and lifestyles. Theories and methods for analyzing social issues and predicting social trends. *Credit: 3 semester hours.*

### 1020 Social Change

Examination of the social and cultural movements that are transforming society. Current debates on feminism, postmodernism, postindustrialism, identity politics and technology are central to this course. *Credits: 3 semester hours.*

### 1030 The Social Welfare System

Functions and consequences of the American social welfare system (e.g., housing, public assistance, health care, criminal justice) formulation, and evaluation of social policies. *Credit: 3 semester hours.*

### 1070 Social Problems

Current social issues and policies; race relations, crime, deviance, aging, economic and political trends and their influence on social structures. Alternative strategies to confront current problems are considered. *Credit: 3 semester hours.*

### 1080 Neighborhoods

This course focuses on neighborhood processes of cohesion, conflict and change. Race, ethnic, religious and gender relations are also discussed. Power at local and city-wide levels and strategies of community organizations are explored. *Credit: 3 semester hours.*

### 1090 Introduction to Social Work

A survey of social work methods and clinical techniques for problem-solving; rational interviewing and casework, group dynamics, and community intervention. *Credit: 3 semester hours.*

### 1100 Sociology of Prisons

Prisons are presented within the larger social context of punishment. A comparative approach is emphasized to understand the various patterns of correctional strategies and their implications to policy and management. *Credit: 3 semester hours.*

### 1110 Criminology

Crime, the criminal, the criminal law and cost of crime. Criminal behavior systems. Explanations for criminal behavior; the police, the courts, probation, sentencing, punishment and parole. *Credit: 3 semester hours.*

### 1120 Social Psychology

Social experience and its effects on thought, feeling and behavior. *Credit: 3 semester hours.*

### 1140 Sociology of Work

The organization of work in industrial society, including the shape of the work force; human/technology interaction; satisfactions and dissatisfactions that result from the social structuring of experience of work. *Credit: 3 semester hours.*

### 1150 Sociology of Marriage and Family

This course examines the institution of marriage and the family. *Credit: 3 semester hours.*

### 1160 Deviant Behavior

Study of the causes of deviance, its diverse forms and patterns, reactions to deviant behavior by social controllers and others as well as consequences of deviance for victims and society. *Credit: 3 semester hours.*

### 1170 Inequality; Race, Class and Gender

Analysis of the social factors determining class, power and prestige in American society; poverty and the effectiveness of welfare policies; interclass conflicts; the impact of changes in the labor market and in sex roles. *Credit: 3 semester hours.*

### 1180 Sociology of Education

Schooling in contemporary society including the role that schools and family play in internalizing in pupils the capacities for successful performance in future adult roles. *Credits: 3 semester hours.*

### 1190 Society of Poverty in America

An examination of the everyday life of poor people in the U.S. Critical analysis of the development of social policy, social movements and the conditions that would have to be changed if poverty is to be ended. *Credit: 3 semester hours.*

### 1220 Sociology of New York City

The New York metropolitan area is analyzed with a focus on social class, race, ethnic relations, housing, employment and poverty. The conditions of various communities and the fiscal state of government are also discussed. *Credit: 3 semester hours.*

### 1570 Gender, Violence and the Movies (Mini-Course)

Exploration of the relationship between violence and gender in the cinema. The effect images of violence have on gendered spectators and consciousness formation are examined. *Credit: 3 semester hours.*

### 2100 Global Poverty

Failures of global policies to substantially change the conditions of the world's poor and conditions that would have to be changed if poverty is to be ended. *Credit: 3 semester hours.*

### 2110 Juvenile Delinquency

Delinquency theories and their effect on prevention, intervention and control strategies. Development of the American juvenile justice system and the influence of race, gender, family, peers and schools. *Credit: 3 semester hours.*

### 2120 Women and Crime

The relationship between women and crime: women as offenders, including the nature and seriousness of offenses and women as victims of crime. *Credit: 3 semester hours.*

### 2200 Substance Abuse and Addiction in Society

This course focuses on causes and rates of alcoholism, drug abuse and addiction, compulsive gambling, obesity and other habitual behaviors. Impact of addiction on the family, education, occupations and crime. *Credit: 3 semester hours.*

### **2310 Sociology of Health and Medicine**

Sociological understanding of the organization, delivery and financing of health services in the contemporary United States, taking into account the political, social, and economic environment. *Credit: 3 semester hours.*

### **2360 Law and Society**

An examination of the social forces surrounding the law. Effects of social systems, social movements and culture on the law. Different models of the legal system are analyzed. *Credit: 3 semester hours.*

### **2380 Sport and Leisure in Contemporary Society**

The role and function of sport, games and play as socializing agents, leisure pursuits and business enterprises; historical, economic and organizational influences on sport and leisure development. *Credit: 3 semester hours.*

### **2410 Race and Ethnicity in America**

American ethnicity in comparative cultural context. Majorities and minorities in terms of stereotyping, prejudice, unequal distribution of goods and services, discrimination and conflict. Major contributions of ethnic groups to American life. *Credit: 3 semester hours.*

### **2430 Sociology of Gender**

This course focuses on issues related to gender roles in modern society. Inequality between women and men in society, male-female interactions, women's and men's movements and social change are discussed. *Credit: 3 semester hours.*

### **2440 Gender Identity in Popular Culture**

Exploration of the social construction of gender in popular culture and the interaction between the individual and these images in the formation of the self. Special attention is given to the construction of gender identity in films, television and music. *Credit: 3 semester hours.*

### **2450 Sociology of the Black Experience**

This course examines the content and nature of African-American experience and how it has changed over time. Economic, cultural, religious, political and sociological aspects of the black and African-American experience will be examined. The struggle for equal rights, social justice and empowerment will be central. *Credit: 3 semester hours.*

### **2460 Social Justice and the City**

This course will examine various forms of deprivation, inequality and intolerance in urban areas and will address these issues through sociological discourse, social action and urban policy. *Credit: 3 semester hours.*

### **2550 Stress, Coping and Crisis Intervention**

Successful ways to cope with everyday stress, as well as traumatic events are covered. Stress theories and crisis intervention methods are applied to individuals, groups and communities experiencing serious difficulties. *Credit: 3 semester hours.*

### **2610 Statistical Methods for the Social Sciences**

Introduction to statistical concepts and procedures for social science students. Students are taught basic computer literacy and have access to the Internet. Descriptive and inferential statistics are the focus of this course. *Credit: 3 semester hours.*

### **2630 Urban Sociology**

The city and its environs; the complexity of its population residential movements and industrial migration; contrasting values of the city and suburbs, including the transition from modern to the postmodern city. *Credit: 3 semester hours.*

### **2670 Sociology of Religion**

The study of the social aspects of religion, with particular focus on contemporary America. This includes major societal functions, social organization, interrelationships with other institutions and secular activities; and the nature of religious consciousness. *Credit: 3 semester hours.*

### **3240 Sociological Theory**

*Prerequisite:* SOC 1010. Classical sociological theories that influence the analysis of contemporary society. Emphasis on the works of Durkheim, Marx, Weber, Simmel, Mead and other social thinkers. *Credit: 3 semester hours.*

### **3650 Sociology of Modern Organizations**

The sociological study of organizational goals, organizational structure, organizational processes, organizations in relation to their environment and to the individual; nature and organization of work in society. *Credit: 3 semester hours.*

### **3660 Political Sociology**

Analysis of the social bases and contexts of political power; political conflict, participation, and nation building; political thought and movements; various forms of political rule. The course deals with power in a broad context from the meta state to everyday life. *Credit: 3 semester hours.*

### **4270 Measurement, Evaluation, and Research Methods**

*Prerequisite:* SOC 2610. Survey of data gathering procedures including the interview, questionnaires, sampling, scales, aptitude and personality measures, formal and informal observation, content analysis, case study and data analysis. *Credit: 3 semester hours.*

### **4280 Internship in Social Research**

*Prerequisite:* SOC 4270. Selected research problems are carried out as field projects incorporating the various methods covered in SOC 4270. *Open to sociology majors only.* *Credit: 3 semester hours.*

### **4530 Social Work Internship**

*Prerequisite:* SOC 1090, *consultation with instructor prior to registration, grade of B or better in SOC 1090.* Supervised learning experiences in social service agencies dealing with individuals, families and/or groups. *Students are required to put in 100 hours for 3 credits.* *Credit: 3 or 6 semester hours.*

### **4953; 4954 Individual Guided Research**

Guided theoretical or empirical research on an individual basis. *The Chair must give written approval. Open only to sociology majors and minors.* *Credit: 3 semester hours.*

### **4990 Sociology Seminar**

*Prerequisite:* SOC 3240 and 4270. Major concepts of sociology discussed. Student interaction represents major contribution to class sessions. Service learning component. *Required for all senior sociology majors.* *All others by permission of Chair.* *Credit: 3 semester hours.*

## **Anthropology Course Offerings (ANT)**

### **1000 Language and Culture**

Communication as it affects and is affected by culture. Barriers to effectiveness. Competent intercultural communication in ethnic, gender, intergenerational, international settings and deaf subcultures. *Credit: 3 semester hours.*

### **1010 Introduction to Anthropology: Cultural**

Anthropology as a comparative cultural approach. Learning about American and world cultures through examination of the whole life experience in cross-cultural perspective. *Credit: 3 semester hours.*

### **1020 Introduction to Anthropology: Physical**

Biological and social aspects of human existence. African fossil evidence and the evolution of the first humans in ecological contexts. Population genetics, and social behavior of primates as clues to ourselves. *Credit: 3 semester hours.*

### **1030 Introduction to Archaeology**

Basic goals, concepts and methods of archaeological excavation and analysis. Study of local sites such as American Indian, colonial cemeteries and black-American communities. *Includes local field trips.* *Credit: 3 semester hours.*

### **1040 Social Change in a Global World**

An examination of the diverse social and cultural movements that have and are currently transforming the world. *Credit: 3 semester hours.*

### **1050 World Cultures: Yesterday and Today**

Survey of major types of culture in the world. Special emphasis on points of the origin of American ethnic groups. Impact of modernization and culture change on traditional societies. *Credit: 3 semester hours.*

### **1100 Food and Culture**

An exploration of how culture shapes what, when, and where we eat; the evolution and global diversity of food habits; issues of world hunger. *Credit: 3 semester hours.*

### **1110 Kinship, Family and Gender**

A detailed overview of the anthropological approach to the study of kinship, family and gender cross-culturally through classical and contemporary texts. *Credit: 3 semester hours.*

### **1120 Human Ecology**

A study of the interrelationships between humanity—social and cultural—and the Earth. The nature and impacts of population growth, industry and technological progress are emphasized. *Field trips may be included.* *Credit: 3 semester hours.*

### **1130 Historical Archaeology**

Foundations for the historical archaeology of European colonization and global capitalism, including archaeological techniques to uncover past constructions of race, ethnicity, class and gender. *Credit: 3 semester hours.*

### **1140 Ancient Civilizations**

The archaeology of ancient civilizations with a focus on Mesopotamia, Egypt, the Indus Valley, China, Mesoamerica, and Peru. Examines their government, religion, food production, and the

environment, sedentism, urbanism, architecture, art, gender, trade, and warfare in the past. *Credit: 3 semester hours.*

#### **1160 Society, Culture and Education**

A study of the American educational institution in its social and cultural contexts. Relationships between the school and the youth sub-culture, the family, the mass media, the economy. Contemporary social currents, especially poverty, drug addiction and the job market, and how they affect the young and their schooling. *Credit: 3 semester hours.*

#### **1190 Psychological Anthropology**

Psycho-social development in cross-cultural perspective. Personality and cultural institutions in reciprocal relationship. Comparative analyses of personality maladjustments and human problems such as alcohol dependency. *Credit: 3 semester hours.*

#### **1780; 1790 Off-Campus Topics in Multicultural and Multiethnic Studies I; II**

Travel to another country or region of the United States for first-hand experience of another culture. Integration of academic knowledge from anthropology and related social and behavioral sciences and first-hand experience. *Credit: 3 semester hours.*

#### **2740 Anthropology of Religion**

Religions and rituals of societies with primitive and transitional technologies. Study of the forms, functions, and meanings of belief systems and ritual practices. *Credit: 3 semester hours.*

#### **2750 The North American Indian**

The history and nature of American-Indian cultures: pre-history and archaeology; contemporary problems of the American Indian as a subculture in modern USA; world industrial expansion and the plight of the American Indian. *Credit: 3 semester hours.*

#### **2760 South Asian Society**

Introduction to sociological and anthropological study of South Asia. Continuity and change in social institutions and traditions of the region. *Credit: 3 semester hours.*

#### **4200 Urban Fieldwork**

This course provides a general introduction and overview of anthropological and sociological strategies for multicultural research in the United States and abroad. *Credit: 3 semester hours.*

#### **4820 Archaeological Fieldwork (Mini-Course)**

*Prerequisite: Permission of instructor.* Fieldwork practicum on concepts and techniques of archaeological excavation and teamwork. Survey or excavation of sites to be announced each year. *Materials fee. Credit: 3 semester hours.*

#### **4870 The Bible and Archaeology**

An introduction to the modern science of "Biblical Archaeology" and questions on the historicity of ancient Israel. *Credit: 3 semester hours.*

#### **4953; 4954 Individual Guided Research**

Guided theoretical or empirical research on an individual basis. *Chair must give written approval. Open only to anthropology majors and minors. Credit: 3 semester hours.*

#### **4990 Anthropology Seminar**

*Prerequisite: ANT 1010, 1020.* An integrated analysis of the field of anthropology and a survey of contemporary developments in research and theory. *Open only to students who have completed 15 credits in anthropology or are senior anthropology majors. Credit: 3 semester hours.*

## Speech, Communication Sciences, and Theatre (SPE)

### Major Sequences

#### **Public Address**

36 semester hours including: SPE 1000C, 4990; and 21 credits from SPE 2000, 2020, 2040, 2050, 2060, 3130, 3140, 3170, 3180, 3190, 4000; and nine elective credits in SPE.

#### **Speech Communication Arts**

36 semester hours including: SPE 1000C, 4990; and 21 credits from SPE 1015C, 2015, 2025, 1155, 2000, 2020, 3135, 2050, 2045, 3155, and nine credits from SPE 1050, 2110, 3130, 2040, 2060, 3180, 3190. (Staten Island campus only.)

#### **Speech-Language Pathology and Audiology**

42 semester hours including: SPE 1000C, 1710, 1720, 2750, 4820, 4830, 2760, 2770, 1740, 1730, 4990, and the remaining credits from 1750, 2775, 2780, 4810, 3840, 2740.

Students are advised to take six credits in a practicum experience. This practicum may be satisfied with two semesters of clinical practice in speech-language pathology (see required prerequisites).

On the Staten Island campus, an internship, SPE 4803, three credits or SPE 4816, six credits, may be considered as a substitute for clinic. Students who have completed SPE 4803 and wish to pursue an additional three-credit internship, may enroll in SPE 4813 with departmental approval. A total of six credits of clinical practice in speech-language pathology or internship in speech-language pathology is applicable to the major sequence and degree.

### Minor Sequences

#### **Public Address**

18 semester hours including: SPE 1000C; three credits from SPE 1015C, 2015, 2025, 1155, 3135; 12 credits from SPE 2020, 2040, 2050, 2060, 3130, 3140 3170, 3180, 3190, 4000.

#### **Business Communication**

15 semester hours including: SPE 1000C, 2020, 2025, 2050 and one approved elective.

### Religious Communication

18 semester hours including: SPE 1000C, 3190; nine credits from SPE 1015, 1050, 2020, 2060, 2110, 3130, and three elective SPE credits.

### Speech Communication Arts

18 semester hours including: SPE 1000C; 12 credits from SPE 1015, 2000, 2015, 2020, 2045, 3135, 3155; and three credits from SPE 1155, 1050, 2110, 3130, 2040, 2060, 3180, 3190.

#### **Speech-Language Pathology and Audiology**

21 semester hours including: SPE 1710, 1720, 1730, 1740, 2750, 2760 and 2770.

#### **Theatre**

18 semester hours including: SPE 1000C, 2110, 1540, 2540; and six credits from SPE 1050, 1520, 1560, 1575, 1580, 1585, 1590.

#### **Musical Theatre**

18 semester hours including: nine semester hours in SPE 1510 or 1530, SPE 1540, MUS 1260; three semester hours in Voice (MUS 1620\*, MUS 1630); six semester hours chosen from among SPE 1580, 2540, 1520, 1590, MUS 1070, 1230, 1240.

\*MUS 1620 may be repeated twice.

### Communication (Staten Island campus)

15 semester hours including SPE 1000C, 1015, 2020 and six credits from SPE 1050, 1155, 1510, 2000, 2015, 2025, 2110, 4953.

## Speech, Communication Arts, and Public Address Course Offerings (SPE)

#### **1000C Fundamentals of Public Speaking**

Basic principles of purposive speaking. Students apply these principles to several oral presentations with primary emphasis on extemporaneous public speaking. *Credit: 3 semester hours.*

#### **1000 Speech and Debate Practicum**

Study and practice of the principles and applications of various forms of public address as they relate to forensic competition. Satisfactory participation in varsity level forensic competitions required.

*Credit: 1 semester hour for 35 hours of laboratory experience plus study. (SI)*

#### **1005C Interpersonal Communication for the Pharmacist**

The process of interpersonal communication and the skills necessary to communicate effectively with others within professional pharmacy settings. *Restricted to allied health students. Credit: 3 semester hours.*

### **1015 Introduction to Interpersonal Communication**

The process of interpersonal communication and the skills necessary to communicate effectively with others in all facets of everyday life, i.e., within family, social, educational and business situations. *Credit: 3 semester hours.*

### **1050 Fundamentals of Speech Production**

Improvement of voice and diction through study of breathing technique, resonance, pitch, vocal range, diction, IPA and oral interpretation of literature. *Credit: 3 semester hours.*

### **1155 Language and Intercultural Communication**

Communication as it affects and is affected by culture. Barriers to effectiveness. Competent intercultural communication in ethnic, intergenerational, gender, deaf subcultures and international settings. *Credit: 3 semester hours.*

### **2000 Advanced Public Speaking**

Advanced theoretical and practical principles of purposive speaking. Students apply these principles to various speaking occasions, audiences, and methods. *Credit: 3 semester hours.*

### **2015 Nonverbal Communication**

How nonverbal messages function to communicate culture, race, gender, and personality. Links nonverbal messages to impression formation and management, as well as relational and expressive communication. *Credit: 3 semester hours.*

### **2020 Persuasion**

*Prerequisite:* SPE 1000C or HON 1020C. Theory and practice of persuasive communication, including the preparation and delivery of persuasive speeches. *Credit: 3 semester hours.*

### **2025 Organizational Communication**

Research and theories of communication in corporate, service and non-profit organizations. Skills in interviewing, message design, leadership and committee work. *Credit: 3 semester hours.*

### **2040 American Public Address**

Analysis and evaluation of representative speakers and speeches in the history of American public address. *Credit: 3 semester hours. Queens campus only.*

### **2045 Listening and Communication Consumership: Theoretical and Applied**

A study of critical and aesthetic listening perspectives. Critical analysis and evaluation of intrapersonal, interpersonal, and public communication. Emphasis is placed on developing listening competence. *Credit: 3 semester hours. (Staten Island)*

### **2050 Decision-Making Discussion**

Theory of and practice in using discussion as a method of decision making. Discussion organization and leadership. *Credit: 3 semester hours.*

### **2060 Argumentation: Inquiry and Advocacy**

*Prerequisite:* SPE 1000C or HON 1020C. The theory and practice of argument including the use of analysis, evidence, reasoning and organization in developing and defending an argumentative position. *Credit: 3 semester hours.*

### **2110 Oral Interpretation**

The art of reading to an audience, conveying ideational, emotional and dramatic content; the techniques of analysis are exercised equally with those of expression. *Credit: 3 semester hours.*

### **3130 Foundations of Rhetorical Theory**

*Prerequisite:* SPE 1000C. An examination of the principal developments in rhetoric from the Sophists to Augustine. *Credit: 3 semester hours.*

### **3135 Human Communication Behavior and Group Process**

Study of the discussion process; application of communication skills in discussion; language patterns, reflective thinking and group dynamics. *Credit: 3 semester hours.*

### **3140 Rhetorical communication strategies**

Theory and practice of rhetorical criticism of historical and contemporary communication texts, including speeches, letters, essays, editorials, and persuasive campaigns. *Credit: 3 semester hours.*

### **3155 General Semantics**

Study of the process and problems of communicating and interpreting meaning through the medium of words and verbal symbols. *Credit: 3 semester hours. (Staten Island)*

### **3170 Prosecution and Defense: The Rhetoric of Cicero and the Law of Rome (Mini-Course)**

Critical study of the forensic oratory of Cicero, based on Roman legal and rhetorical practices. *No knowledge of classical languages is required. Credit: 3 semester hours.*

### **3180 Legal Argumentation**

*Prerequisite:* SPE 1000C. This course is designed to study argumentation that occurs within the law. Students receive training in both the theory and practice of persuasive legal argumentation. *Credit: 3 semester hours.*

### **3190 Rhetoric of Religion**

The role of religious discourse in relation to the rhetorical tradition and contemporary society. The study of the intersection of religious rhetoric and socio-political issues. *Credit: 3 semester hours.*

### **4000 Special Topics Seminar**

*Restricted registration.* Research and discussion on select topics and problems. *Credit: 3 semester hours.*

### **4903 Internship in Speech Communications**

*Restricted registration.* Fieldwork (eight hours per week) with practical application in the areas of speech-language pathology, human communication or theatre under faculty and professional supervision. *Credit: 3 semester hours.*

### **4906 Internship in Speech Communications**

*Restricted registration.* Fieldwork (16 hours per week). *See SPE 4903. Credit: 6 semester hours.*

### **4953 Independent Study**

*Restricted registration.* Independent research in an area of the student's own selection under the general advisement of a faculty member. *Credit: 3 semester hours.*

## **Speech-Language Pathology and Audiology Course Offerings (SPE)**

### **1710 Phonetics**

A study of articulatory phonetics, broad and narrow transcription of American English (using the International Phonetic Alphabet); elements of dialects and accents. *Credit: 3 semester hours.*

### **1720 Anatomy and Physiology of the Speech System**

*Prerequisite:* SPE 1710 or permission of the department. The anatomy and physiology of breathing, phonatory, and articulatory systems as they are used in speech. Introduction to the nervous system, particularly as the controller of the speech mechanism. *Credit: 3 semester hours.*

### **1730 Language Acquisition**

*Prerequisite:* SPE 1710 or permission of the department. Phonological, morphological, syntactic, semantic, pragmatic and cognitive aspects of language acquisition in the normal child are analyzed. *Credit: 3 semester hours.*

### **1740 Introduction to Hearing Science**

Anatomy, physiology and neurophysiology of the hearing mechanisms; theories of hearing, acoustical characteristics to sound and their measurement. *Credit: 3 semester hours.*

### **1750 Speech Science**

*Prerequisite:* SPE 1710, 1720 or permission of the department. The acoustic characteristics of speech and their relation to articulatory and perceptual events; introduction to speech perception. *Credit: 3 semester hours.*

### **1760 Introduction to Sign Language I**

Introduction to the basic manual communication skills of the deaf, development of receptive and expressive skill necessary for proficiency in American Sign Language. *Not applicable to the speech pathology-audiology major. Credit: 3 semester hours.*

### **2740 Observation in Speech-Language Pathology and Audiology**

*Prerequisite:* SPE 1710, 1720 and 1730. *Corequisite:* SPE 2760 and 2770. Observation of assessment in speech, language and hearing disorders. Introduction to systematic classification and professional writing. *Must be taken prior to SPE 4820 and SPE 4830. Credit: 1 semester hour.*

### **2750 Introduction to Audiology**

*Prerequisite:* SPE 1740 or permission of the department. Measurement of hearing, including pure tone and speech audiometry, immittance testing, and special tests. Interpretation of audiograms and screening procedures and pathologies of the auditory system. *Students are required to observe at speech and hearing facilities. Credit: 3 semester hours.*

**2760; 2770 Speech-Language Pathology I; II**

*Prerequisite:* SPE 1710, 1720, 1730 or permission of the department. Disorders of speech and language based on organic causation including cleft palate, cerebral palsy, delayed and disordered language, dysarthria, articulation defects, aphasia, dysfluency, and voice disorders. *Students are required to observe at speech and hearing facilities. Credit: 3 semester hours.*

**2775 Language-Based Learning Disabilities**

*Prerequisite:* SPE 1730. Language development and disorders, their relation to learning and reading disabilities. Assessment and intervention strategies for young and older children, and for adolescents with language-based learning disabilities. *Credit: 3 semester hours.* (Staten Island)

**2780 Aural Rehabilitation for the Hearing Impaired Child**

*Prerequisite:* SPE 2750 or SPE 1740 (recommended) or permission of the department. The effect of hearing loss on the communication skills of hearing impaired children. Theoretical considerations in education, (re)habilitation, speech reading, language therapy, auditory training, and amplification systems. *Credit: 3 semester hours.*

**2790 Introduction to Sign Language II**

*Prerequisite:* SPE 1760 or permission of the department. The second level of American Sign Language (ASL II), providing increased knowledge of the gestural language used by deaf persons in the U.S. and Canada except in Province of Quebec. *Credit: 3 semester hours.*

**3840 Diagnostic Methods in Speech-Language Pathology**

*Prerequisite:* SPE 2760, 2770 or permission of the department. Procedures for studying, evaluating and assessing various pathologies of speech, language and communication by lecture and observation. *Credit: 3 semester hours.*

**4803; 4813; 4816 Internship in Speech-Language Pathology and Audiology**

*Restricted registration. Permission of the department required.* Supervised clinical practice in management and intervention strategies for the communicatively impaired of varied nature and severity; preparation of clinic records and reports. *Credit: SPE 4803 and SPE 4813 require 8 hours weekly for 3 credits. SPE 4816 requires 16 hours weekly for 6 credits.* (Staten Island)

**4810 Clinical Practicum in Audiology**

*Prerequisite:* SPE 2750 and 1740 or permission of the department. Measurement of pure tone and speech thresholds, screening procedures, interpretation of audiograms, and special tests for audiological assessment of hearing loss. *Credit: 3 semester hours.*

**4820; 4830 Clinical Practice in Speech-Language Pathology I; II**

*Prerequisite:* SPE 2760 and SPE 2770. SPE 4820 is a prerequisite for SPE 4830 or permission of the department. Supervised clinical practice in management and intervention strategies in the communicatively impaired, preparation of clinic records and reports at the University's Speech and Hearing Center. *Two-hour weekly seminar. Observations at Speech and Hearing Center arranged. Credit: 3 semester hours.*

**4990 Seminar**

Contemporary issues in communication arts and sciences. Research tools for advanced study and professional growth; research design, tests and measurements, statistical analysis and computer applications. *Credit: 3 semester hours.*

## Theatre Course Offerings (SPE)

**1500 Theatre In Education**

Introduction to theatre techniques for educators. Emphasis on staging the play, puppetry, improvisation, storytelling and creative dramatics. *Credits: 3 semester hours.*

**1510 Introduction to Theatre**

A survey of theatre from ancient Greece through the 19th century; stage practices; the art of the actor and the theatre as an educational device and cultural experience. *Credit: 3 semester hours.*

**1520 Creating Theatre**

An overview of theatre and its craft which examines the actor, the playwright, the designers, the technicians, the director and their collaboration. Emphasis on creating and developing original work. *Credit: 3 semester hours.*

**1530 Modern Theatre**

Principles and practices in theatre since the beginning of the 20th century; current offerings on the New York stage and problems they involve; new movement and theories and their sources in theatre of the past. *Credit: 3 semester hours.* (Staten Island)

**1540 Introduction to Acting I**

Basic techniques in analyzing and creating a role. Improvisations, scene practice, script analysis. *Credit: 3 semester hours.*

**1550 On-Camera Acting: Commercials, Movies and Sitcoms**

An introduction to acting and to the special techniques of on-camera performance. Emphasis on career building, and on the styles of commercials, movies and sitcoms. *Credit: 3 semester hours.*

**1560 Playwriting: Writing for Stage Performance**

*Prerequisite:* SPE 1000C. Craft skills of writing for stage performance. Analysis of the basic play architecture, problems of character development, dialogue and plot. Student scripts and exercises are read and analyzed in class. *Credit: 3 semester hours.*

**1570 Stagecraft I**

*Prerequisite:* Permission of the instructor. First Semester: Introduction to theatre architecture and staging. Theory and practice of scene design, set construction and lighting design. *Credit: 3 semester hours.*

**1575 Theatre Laboratory: Stagecraft**

*Prerequisite:* Permission of the instructor. Supervised laboratory experience in technical theatre production. Students further skills and knowledge of technical theatre throughout practical application in departmentally-approved productions. *Credit: 1 to 3 credits per semester. 1 semester hour requires 45 hours of laboratory work. Repeatable to maximum of 3 credits.*

**1580 Theatre Laboratory: Acting**

*Prerequisite:* Permission of the instructor. Supervised laboratory experience in acting. Students further their skills, and knowledge of acting in a departmentally-approved production or project. *Credit: 1 to 3 credits per semester. 1 semester hour requires 45 hours of laboratory work. Repeatable to a maximum of 3 credits.*

**1585 Theatre Laboratory: Directing**

*Prerequisite:* Permission of the instructor. Supervised laboratory experience in directing. Students further their skills and knowledge of directing in a departmentally approved project. *Credit: 1 to 3 credits per semester. 1 semester hour requires 45 hours of laboratory work. Repeatable to a maximum of 3 credits.*

**1590 Theatre Workshop (Mini-Course)**

Experience in the production and performance of a play. Each student performs a role and supervises a production responsibility. Performance is presented during last class session. *Laboratory fee, \$10. Credit: 3 semester hours.*

**2540 Introduction to Acting II**

Presentation of scenes. Rehearsal, study and performance techniques. Problems of auditioning. *Credit: 3 semester hours.*

**2570 Stagecraft II**

Technical production practices, sets and prop construction, special effects, advanced lighting, and complex set design. Introduction to stage makeup and costume. *Credit: 3 semester hours.*

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## Theology and Religious Studies (THE)

### Major Sequence

36 semester hours including THE 1000C and 2100 (in sequence), 2205, [2210 or 2215], [2300 or 2310], 2500, 2810, 4990, three elective courses in the 3000 series and one course in the 3100 series.

### B.A./M.A.

B.A./M.A. students take a total of 42 credits including THE 1000C (see above note) and 2100 (in sequence), 2205, [2210 or 2215], [2300 or 2320], 2500, 2810, 4990 and one course in the 3100 series on the undergraduate level. Students must also complete two graduate courses in junior year and two graduate courses in senior year, for a total of 12 graduate credits. Eligibility requires a 3.0 overall index and a 3.5 in THE. For additional program details, consult the St. John's University Graduate Bulletin.

### Minor Sequences

#### Theology and Religious Studies

18 semester hours including nine credits in the core and nine credits from any other course offerings of the department.

#### Interfaith Studies

18 semester hours including nine credits in the Core and nine credits selected under department advisement from among THE 1000, 2700, 2705, 2710, 2720, 2730, 2740.

*Note: Mini-courses are not applicable toward the THE major, B.A./M.A., minor sequences.*

#### Core Curriculum Note

All students are required to take THE 1000C and two other courses, one from the 2000 series and one from the 3000 series. Mini-courses may not be used to satisfy Core requirements.

## Theology and Religious Studies Course Offerings (THE)

### 1000C Perspectives on Christianity: A Catholic Approach

An introduction to Christianity highlighting belief statements, practices, scripture, rites, theological writings, artistic expressions, and other discourses manifesting and expressing the Christian faith in its various traditions through its development. *All students regardless of religious affiliation must take 1000C. Credit: 3 semester hours.*

### 2100 Introduction to the Bible

*Prerequisite:* THE 1000C. Introduction to the history, literary forms and theology of the Old and New Testaments. *Credit: 3 semester hours.*

### 2200 The Mystery of God

*Prerequisite:* THE 1000C. The Christian theology of the triune God, with its implications for issues such as faith and reason, theological language, Christian praxis, and dialogue with other religious traditions. *Credit: 3 semester hours.*

### 2205 Jesus in Christian Faith

*Prerequisite:* THE 1000C. A study of statements of faith interpreting Jesus' work and nature in the gospels, ancient creeds, later theology, and praxis of faith. *Credit: 3 semester hours.*

### 2210 Perspectives on the Church

*Prerequisite:* THE 1000C. The theology of the Christian community: its Scriptural warrants and history, issues such as: the role of the Church in salvation, the relation between the local and universal Church, Vatican II, ecumenism, authority. *Credit: 3 semester hours.*

### 2215 Worship, Liturgy and Sacraments

*Prerequisite:* THE 1000C. This course explores worship, and sacraments especially in the American context. It examines "culture" and its influence on the understanding and experience of the "holy" and "mystery" in Christian rite, time, and place in light of recent developments in sacramental theology and practice. *Credit: 3 semester hours.*

### 2300 Christian Responsibility

*Prerequisite:* THE 1000C. An overview of Christian ethics, including introductory moral foundations and selected ethical issues in individual and social morality on the basis of Christian revelation. *Credit: 3 semester hours.*

### 2320 Introduction to Christian Social Teaching

*Prerequisite:* THE 1000C. An exploration of Christian social teaching, particularly to Roman Catholic social teaching, and its relationship to economic, political, and cultural structures. The concept of the common good and the virtue of distributive justice will be emphasized. *Credit: 3 semester hours.*

### 2400 Christian Spirituality and Mysticism

*Prerequisite:* THE 1000C. A study of the spiritual dimensions of humanity based on the religious nature of human beings, the Christian tradition, and modern interdisciplinary insights regarding human nature. *Credit: 3 semester hours.*

### 2500 History of the Church

*Prerequisite:* THE 1000C. A survey of church doctrines and institutions, critical moments in church history and interpretive resources useful for understanding them. *Credit: 3 semester hours.*

### 2700 Introduction to Eastern Orthodoxy

*Prerequisite:* THE 1000C. A survey of the churches of the Christian East, their doctrine and spiritual disciplines, and their differences from the churches of the Christian West. *Credit: 3 semester hours.*

### 2710 Introduction to Protestantism

*Prerequisite:* THE 1000C. A survey of the Protestant Christian movement and Protestant thought from the Reformation in Europe in the 16th century to the present-day spread of Protestant Christianity throughout the world. *Credit: 3 semester hours.*

### 2810 Religions of the World

*Prerequisite:* THE 1000C. A critical introduction to the study of world religions, exploring the beliefs, rituals and ethical ideals of representative religious manifestations of the past and present. *Credit: 3 semester hours.*

### 2820 Introduction to Judaism

*Prerequisite:* THE 1000C. Survey of the history of Judaism, with emphasis on its concepts and practices; relationship of Judaism to Christianity; the major theological schools in Judaism. *Credit: 3 semester hours.*

### 2830 Introduction to Hinduism

*Prerequisite:* THE 1000C. Hindu religion: Its scriptures, theology, philosophy and creeds—Vaisnavism and Saivism, eastern mysticism and yoga, and modern Hindu religious consciousness. *Credit: 3 semester hours.*

### 2840 Introduction to Buddhism

*Prerequisite:* THE 1000C. The origin of Buddhism in India: its metaphysics, ethics, monastic order, and scriptures. Discussion of the teachings of two schools of Buddhism: the Theravada in Southeast Asia, and the Mahayana and Zen Buddhism in North and Northeast Asia. *Credit: 3 semester hours.*

### 2850 Introduction to Islam

*Prerequisite:* THE 1000C. A survey of the religion of Islam on the basis of the Qu'ran and Sunnah and its role in the contemporary world. *Credit: 3 semester hours.*

### 3100 The Gospels of Matthew, Mark, and Luke

*Prerequisite:* THE 1000C. This course explores the message of and about Jesus of Nazareth found in the oldest written Christian narratives concerning him, the so-called "synoptic gospels." *Credit: 3 semester hours.*

### 3105 The Johannine Literature

*Prerequisite:* THE 1000C. A study of the Gospel of John, its origins, structure and theology, and of the three Letters of John, with a consideration of their relationship to the Fourth Gospel and the Apocalypse. *Credit: 3 semester hours.*

### 3110 The Letters of Paul

*Prerequisite:* THE 1000C. A study of the New Testament letters attributed to Paul, with attention to the literary, social, and theological issues in the study of these documents and the early Christian communities to which they were addressed. *Credit: 3 semester hours.*

### 3120 The Prophets

*Prerequisite:* THE 1000C. A survey of the Old Testament Prophetic Books and a discussion of the nature and significance of prophecy in the Bible and in its context in the ancient Near East. *Credit: 3 semester hours.*

### 3130 The Bible and Archaeology

*Prerequisite:* THE 1000C. An introduction to the methods and outcomes of archaeological investigation of the lands of the Bible, and a discussion of related issues concerning the history of ancient Israel. *Credit: 3 semester hours.*

**3210 The Human Mystery**

*Prerequisite:* THE 1000C. An introduction to theological anthropology; the human person as an historical reality. Various conceptions of humanity in the light of the Judeo-Christian revelation. The problem of nature and grace; human evolution and the hope for eternal life. *Credit: 3 semester hours.*

**3220 Hope, Eternal Life, and the Kingdom**

*Prerequisite:* THE 1000C. This course explores the mystery of humanity's hoped-for future: eternal life and the reign of God. It explores the meaning of history, the social depiction of apocalypticism, millenarianism and utopia. *Credit: 3 semester hours.*

**3225 Death and Resurrection in Modern Christian Thought**

*Prerequisite:* THE 1000C. An examination of America's interest in death, contributions of the behavioral sciences; biblical and theological perspectives on death and resurrection; contemporary reflections on how to live with death. *Credit: 3 semester hours.*

**3230 Christian Marriage**

*Prerequisite:* THE 1000C. An exploration of the theological, psychological and sociological dimensions of marriage and family life. The course places particular emphasis on marriage as a sacrament, on the sacredness of family, and on the challenges related to contemporary family life. *Credit: 3 semester hours.*

**3240 Women and Theology**

*Prerequisite:* THE 1000C. The emergence of a theology of women, stressing personhood; Scripture and Christian traditions concerning women are joined with a study of present Church and world needs. Open to both male and female students. *Credit: 3 semester hours.*

**3250 The Church, the Churches and World Religions**

*Prerequisite:* THE 1000C. A study of the self-image of the Catholic Church and its relations with other Christian Churches and world religions; current dialogues taking place on the local, national and international levels. *Credit: 3 semester hours.*

**3260 Religion and the Fine Arts**

*Prerequisite:* THE 1000C. *Restricted registration for fine arts majors only. Others may enroll with permission of instructor.* An exploration of the relationship that exists among the "fine" arts, spirituality, and religion. More particularly, we focus on the ways that the arts have been and are used in the religious traditions, and more particularly the Christian tradition. *Credit: 3 semester hours.*

**3300 Moral Theology of Health Care**

*Prerequisite:* THE 1000C. An exploration of moral decisionmaking as it relates to the health care professions, with attention to specific issues, including: the right to health care, social justice and health, conscience, abortion, euthanasia, prolongation of life, genetics, contraception, sterilization, drug use, chemical addiction, and human experimentation. *Credit: 3 semester hours.*

**3305 Moral Theology of the Marketplace**

*Prerequisite:* THE 1000C. *Prerequisite:* THE 1000C. *Restricted Registration.* An exploration and analysis of moral decision-making as it applies to the world of business. *Open to Tobin College of Business juniors and seniors only, or with permission of the professor.* *Credit: 3 semester hours.*

**3310 The Theology of Peace: A Gospel Reflection on Violence and War**

*Prerequisite:* THE 1000C. The evolution of the Christian response to war and violence; the Gospel foundations; a historical survey of the "just war" theory; developments since World War II, especially the arms race and the nuclear question. *Credit: 3 semester hours.*

**3320 Theological Issues of Urban Life**

*Prerequisite:* THE 1000C. A survey of selected basic issues (housing, education, welfare, pollution) which affect the quality of life in a large city. A comparison of these realities with the Christian vision of social justice and equality in human dignity. *Credit: 3 semester hours.*

**3410 Helping the Neighbor: Vincent de Paul and the Meaning of Christian Service**

*Prerequisite:* THE 1000C. An examination of the meaning of Gospel service through the spirituality of St. Vincent de Paul, the 17th Century French saint regarded by both Christians and others as a forerunner of modern social service. *Credit: 3 semester hours.*

**3510 Religion in the United States**

An historical and thematic study of religion in the United States from the Age of Discovery/colonial period to the present time. This course explores the diversity of religious belief and practice as well as how religion interacts with U.S. culture and society, especially in the contemporary period. *Credit: 3 semester hours.*

**3530 Religion and the Rise of Modern Culture**

*Prerequisite:* THE 1000C. The role of religion in the rise of European culture and its influence on Western civilization. *Credit: 3 semester hours.*

**3610 Youth Ministry: Theory and Practice**

*Prerequisite:* THE 1000C. The theory and practice of ministry to youth as it is currently developing, especially in the United States. *Credit: 3 semester hours.*

**3810 Anthropology of Religion**

*Prerequisite:* THE 1000C. Religions of societies with primitive technologies examined to see various forms religion takes, the functions it serves and the meanings it has for the people believing and practicing it. Consideration of the cultural contexts of religion and its relation to change. *Credit: 3 semester hours.*

**3820 Israel and the Ancient Near East**

*Prerequisite:* THE 1000C. The history of Israel as recovered through the tools of contemporary scholarship, in order to understand its religious roots and influence on contemporary life. *Credit: 3 semester hours.*

**3830 Judaism Speaks to Modern Moral Issues**

*Prerequisite:* THE 1000C. The application of Jewish theological and ethical teachings in

working out solutions to moral and religious problems. *Credit: 3 semester hours.*

**3840 Contemporary Judaism**

*Prerequisite:* THE 1000C. A survey of the theological and philosophical foundations of Judaism, and its development as a framework for contemporary Jewish life and practice. Religious, ethical, and educational attitudes found among Jews today; an examination of Judaism as a religious experience and a way of life in modern times. *Credit: 3 semester hours.*

**3850 The Holocaust and Its Aftermath**

*Prerequisite:* THE 1000C. The reaction of Jews and Christians to the destruction of Eastern European Judaism and the Jewish response in prayer, literature and religious thought. *Credit: 3 semester hours.*

**3855 A Jewish View of Marriage and the Family**

*Prerequisite:* THE 1000C. The theological, historical, sociological and psychological aspects of marriage in the Jewish tradition. The life cycle and the role of family in Jewish religious life. Current concerns, issues, problems, and challenges. *Credit: 3 semester hours.*

**3860 The Family in Islamic Life and Theology**

*Prerequisite:* THE 1000C. A survey of the Islamic teachings on family life and of family life in Muslim life and thought. *Credit: 3 semester hours.*

**3910 Philosophy of Religion**

*Prerequisite:* THE 1000C. A study of selected texts in the philosophy of religion, illustrating the classical philosophical interpretation of ancient Greco-Roman religion, medieval Christian philosophy in the service of the Christian religion, and the analysis and critique of religion by modern, religiously autonomous philosophies. *Credit: 3 semester hours.*

**3920 Science, Technology, and Religion**

*Prerequisite:* THE 1000C. A comparative study of methods in science with methods in theology, with a view to understanding the relationship between scientific and theological truth. Traditional Church doctrines such as creation, divine providence, original sin, biblical miracles, virginal conception, resurrection and eternal life are re-examined with light from contemporary scientific knowledge. *Credit: 3 semester hours.*

**3930 Religion and Psychology**

*Prerequisite:* THE 1000C. A survey of the interpretation of religion in major psychological schools and the application of psychological insights by the Christian churches to their ideals of personality and the Christian way of life. *Credit: 3 semester hours.*

**4010 The Jewish Religious Experience in New York (Mini-Course)**

*Course does not satisfy St. John's University Core requirements.* An exploration of Jewish religious life in New York and the manner in which American life affected it. *Field trips are required. Students responsible for some entrance fees.* *Credit: 3 semester hours.*

**4020 Biblical Issues (Mini-Course)**

*Course does not satisfy St. John's University Core requirements.* An examination of the

critical biblical issues for today's living. Issues such as archaeology, evil, fundamentalism, biblical interpretation, Christian-Jewish dialogue are examined, evaluated and discussed. *Credit: 3 semester hours.*

## 4200 Christian Leadership

*Prerequisite:* THE 1000C and permission of the instructor. Does not satisfy St. John's University Core requirements. An experience-based exploration into the purpose, dynamics and problems encountered in Christian leadership and service to the community; field experiences in actual service programs are the focus and material for case presentations and discussion. Lectures are geared to further illuminating issues that arise in the context of case discussions. *Credit: 3 semester hours.*

## 4905 Internship in Theology

*Prerequisite:* THE 1000C. Does not satisfy St. John's University Core requirements. *Restricted registration.* Fieldwork (eight hours per week) that explores the problems of Christian leadership in programs served by social service agencies, schools, and hospitals under faculty and professional supervision. *Credit: 3 semester hours.*

## 4910 Internship in Theology

*Prerequisite:* THE 1000C. Does not satisfy St. John's University Core requirements. *Restricted registration.* Fieldwork (16 hours per week). See THE 4905. *Credit: 6 semester hours.*

## 4920 Selected Theological Questions

*Prerequisite:* THE 1000C. Does not satisfy St. John's University Core requirements. Open to students who desire to pursue an in-depth study of particular theological subjects of interest to them under the guidance of a member of the Theology faculty. *Credit: 3 semester hours.*

## 4930 Reading and Research

*Prerequisite:* THE 1000C and nine semester hours in THE. Does not satisfy St. John's University Core requirements. *Restricted Registration.* Guided research and reading on an individual basis. Students must submit to the department Chair, in writing and prior to registration, an outline of the subject areas to be researched or read together with written acceptance of the project by a faculty member of their choice. Open to juniors and seniors only. Prior departmental approval required. *Credit: 3 semester hours.*

## 4950; 4955 New Testament Greek I; II

*Prerequisite:* THE 1000C. Does not satisfy St. John's University Core requirements. The basic elements of Greek grammar and syntax. Basic vocabulary of New Testament writings. Selected readings from New Testament writings. *Credit: 3 semester hours.*

## 4990 Seminar

*Prerequisite:* THE 1000C. Does not satisfy St. John's University Core requirements. An in-depth study of particular theological subjects under the guidance of a member of the Theology faculty. Required for Theology majors, and open to Theology minors. *Credit: 3 semester hours.*

## Asian Studies

**Nyo Chung**, *Adjunct Instructor*, B.A., M.A., Sang Myung College; M.A., Long Island University

**Satoko Freedman**, *Adjunct Instructor*, B.A., Osaka Women's; M.A., New York University; M.A., CUNY Graduate Center

**Makiko Funato**, *Adjunct Instructor*, B.A., Tokyo Woman's Christian University

**Chao-Chih Huang**, *Adjunct Instructor*, B.A., Chinese Culture University, Taiwan; M.A., St. John's University

**Diana H. Kung**, *Adjunct Instructor*, B.A., National Taiwan College of Art; M.A., Montclair State University

**Bernadette Li**, *Director and Professor*, B.A., National Taiwan University; M.A.; University of Washington; Ph.D., Columbia University

**Jacob C. Lin**, *Adjunct Instructor*, B.A., University of California at Berkeley; M.A., St. John's University

**John J. Metzler**, *Adjunct Instructor*, B.A., M.A.; St. John's University

**Roy L. Sturgeon**, *Adjunct Instructor*, B.A., Grand View College, Iowa., J.D.; Valparaiso University School of Law

**Winnie C. Tsai**, *Adjunct Instructor*, B.A., Providence College, Taichung; M.A., St. John's University

**Johnson L. Tseng**, *Adjunct Associate Professor*, B.A., M.B.A., National Chengchi University, Taiwan; M.A., Ph.D., SUNY, Albany

**Dave Wang**, *Adjunct Assistant Professor*, B.A., Tungpei University; Ph.D., University of Arizona

## Biology

**Diana C. Bartelt**, *Associate Professor*, A.B., CUNY, Hunter College; M.Phil., Ph.D., CUNY

**Christopher Bazinet**, *Associate Professor*, B.A., University of Wisconsin-Madison; Ph.D., Massachusetts Institute of Technology

**Frank R. Cantelmo**, *Associate Professor*, B.S., Fairleigh Dickinson University; Ph.D., CUNY

**Timothy H. Carter**, *Professor*, B.A., Harvard University; Ph.D., Princeton University

**Anne M. Dranginis**, *Associate Professor*, B.S., University of Massachusetts; Ph.D., University of Michigan

**Dipak Haldar**, *Professor*, B.S., Midnapur College, Calcutta, India; M.S., D.Phil., University of Calcutta, India; Ph.D., University of London

**Jaya Haldar**, *Professor*, B.S., M.S., University of Calcutta, India; Ph.D., University of London

**Irvin N. Hirshfield**, *Associate Professor*, B.S., University of Delaware; Ph.D., University of Pittsburgh

**Yue Jee Lin**, *Associate Professor*, B.S., National Taiwan University; M.S., Ph.D., Ohio State University

**Richard A. Lockshin**, *Professor*, M.A., Ph.D., Harvard University

**Rajendra S. Rana**, *Associate Professor*, B.S., M.S., Pantnagar University, India; Ph.D., University of Wisconsin

**Laura Shramm**, *Assistant Professor*, B.S., St. John's University; Ph.D., SUNY, Stony Brook

**Richard Stalter**, *Professor*, B.S., Rutgers University; M.S., University of Rhode Island; Ph.D., University of South Carolina

**Ales Vancura**, *Associate Professor*, M.S., Ph.D., The Prague Institute of Chemical Technology

**Jay A. Zimmerman**, *Associate Professor*, B.A., Franklin and Marshall College; Ph.D., Rutgers University

## Chemistry

**Ernest Birnbaum**, *Professor Emeritus*, B.A., University of California; M.S., University of South California; Ph.D., University of Florida

**James E. Brady**, *Professor Emeritus*, B.S., Hofstra University; Ph.D., Pennsylvania State University

**David Brown**, *Associate Professor*, B.S., University of the West Indies; Ph.D., CUNY, City College,

**Victor Cesare**, *Associate Professor*, B.S., SUNY, Albany; M.S., Ph.D., St. John's University

**Steven Graham**, *Associate Professor*, B.S., Biochemistry, Chemistry, Ph.D., SUNY, Stony Brook

**Claude V. Greco**, *Professor Emeritus*, B.S., Manhattan College; M.S., New Mexico Highlands University; Ph.D., Fordham University

**Eugene M. Holleran**, *Professor Emeritus*, B.S., University of Scranton; Ph.D., Catholic University of America

**Alison G. Hyslop**, *Assistant Professor*, B.S., M.S., Ph.D., University of Pennsylvania

**Neil D. Jespersen**, *Professor*, B.S., Washington and Lee University; Ph.D., Pennsylvania State University

**Eugene J. Kupchick**, *Professor Emeritus*, B.S., Ph.D., Rutgers University

**István Lengyel**, *Professor Emeritus*, B.S., Lőränd Eötvös University of Sciences; Ph.D., Massachusetts Institute of Technology

**Elise G. Megehee**, *Associate Professor*, B.S., University of Rochester; M.S., Ph.D., University of North Carolina

**William H. Pasfield**, *Professor Emeritus*, B.S., Massachusetts Institute of Technology; Ph.D., University of Connecticut

**Richard Rosso**, *Associate Professor*, B.S., SUNY, Albany; Ph.D., SUNY Buffalo

**Joseph Serafin**, *Assistant Professor*, B.S., Gannon University; Ph.D., Columbia University

**Ralph Stephani**, *Associate Professor*, B.S., College of the Holy Cross; Ph.D., SUNY, Buffalo

**Siao F. Sun**, *Professor Emeritus*, LL.B., National Chengchi University; M.A., University of Utah; M.S., Loyola University; Ph.D., University of Illinois; Ph.D., University of Chicago

**Anthony C. Testa**, *Professor Emeritus*, B.S., CUNY; Ph.D., Columbia University

**Enju Wang**, *Associate Professor*, B.S., Shandong Normal University; M.Sc., Nanjing Soil Institute Academia Sinica; Ph.D., Laboratorium fur Organische Chemie; Post Doctoral Fellow, University of Michigan

## English

**Dohra Ahmad**, *Assistant Professor*, B.A., Yale University; M.A., Ph.D., Columbia University

**Angela Belli**, *Professor*, B.A., CUNY, Brooklyn College; M.A., University of Connecticut; Ph.D., New York University

**Lee Ann Brown**, *Assistant Professor*, M.F.A., Brown University

**Robert Fanuzzi**, *Associate Professor*, B.A., College of William and Mary; M.A., Ph.D., Northwestern University

**Robert Forman**, *Professor*, B.A., St. John's College; M.A., Ph.D., New York University

**Granville Ganter**, *Associate Professor*, Boston University; M.A., University of Vermont; Ph.D., CUNY

**Willard Gingerich**, *Vice Provost*, B.A., SUNY, Buffalo; Ph.D., University of Connecticut

**Margaret Kim**, *Assistant Professor*, B.A., University of Wisconsin at Madison; M.A., Ph.D., Harvard University

**Amy King**, *Assistant Professor*, B.A., Bates College; M.A., Ph.D., Harvard University

**Kathleen Lubey**, *Assistant Professor*, B.A., Ithaca College; M.A., SUNY, Buffalo; Ph.D., Rutgers University

**John Lowney**, *Associate Professor*, B.A., M.A., University of Massachusetts; Ph.D., Brown University

**Gregory Maertz**, *Professor*, B.A., Northwestern University; A.M., Ph.D., Harvard University

**Steven Mentz**, *Assistant Professor*, B.A., Princeton University; M.A., Ph.D., Yale University

**Stephen Miller**, *Professor*, B.A., M.A., CUNY; Ph.D., New York University

**Melissa Mowry**, *Associate Professor*, B.A., Boston University; M.A., Ph.D., University of Delaware

**Joanne Neff**, *Adjunct Assistant Professor*, B.A., University of Pennsylvania; M.A., Ph.D., New York University

**Derek Owens**, *Associate Professor*, B.A., SUNY, Geneseo; M.A., D.A., SUNY, Albany

**Stephen Sicari**, *Professor*, B.A., Manhattan College; M.A., Ph.D., Cornell University

**Jennifer Travis**, *Assistant Professor*, B.A., Vassar College; M.A., Ph.D., Brandeis University

## Fine Arts

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