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St. John's College has two office locations.

On the Queens Campus, the Dean's office is located in St. John Hall, Room 145, 718-990-6271. On the Staten Island Campus, the Dean's office is located in Flynn Hall, Room 102, 718-390-4300.

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, and Bachelor of Fine 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++
Art History++
Asian Studies*++
Communication Studies++
Economics
English*
Environmental Sustainability and Decision-Making++
French++
Global Development and Sustainability++
Government and Politics*
History*
Italian++
Mathematics
Philosophy
Psychology*
Public Administration and Public Service++
Social Studies+
Sociology*
Spanish*++
Speech-Language Pathology and Audiology
Theology*

Bachelor of Science

Biochemistry++
Biology*++
Chemistry*++
Computer Science+
Computing and Machine Learning+
Environmental Science++
Mathematical Physics++
Mathematics
Physical Science++
Physics++

Bachelor of Fine Arts++

Fine Arts
Graphic Design
Illustration
Photography

Notes: *Combined B.A./M.A. or B.S./M.S. programs available.

+Available on Staten Island campus only.

++Available on Queens campus only.

Minors Available

To be awarded a St. John's College minor, at least 50% of the coursework must be completed by way of St. John's College courses. 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. 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.
4. The Pass-Fail Option is not available in the fulfillment of minor requirements.
5. Students should schedule an interview at least once a year with their minor advisor.
6. The successful completion of a minor (with a minimum index of 2.0) will be noted on students' transcripts.
7. To be awarded a St. John's College minor, at least 50% of the coursework must be completed by way of 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 including: HIS 3400 and twelve semester hours, representing at least three different disciplines, selected from the following: ANT 2440, 2450; ART 1830, 2745; ENG 3300, 3330, 3470, 3475, 3480, 3650; FRE 3820; GOV 2480, 2750, 3680; HIS 2300, 2301, 2302, 2450, 3410, 3711, 3712, 3850; MUS 1300; PSY 2230; SOC 1190, 2450.

Note: Independent study courses, special topics courses and graduate level courses with significant Africana content can be counted for Africana minor credit with authorization of professor and director of Africana Studies.

American Studies

18 semester hours including: three semester hours in the Capstone ASP Seminar and fifteen semester hours from three different areas, selected from the following:

Humanities Group (six semester hours from different disciplines): ENG 2060, 3300, 3310, 3320, 3330, 3340, 3350, 3360, 3390, 3470, 3480, 3560; HIS 2700, 2710, 2711, 2712, 2720, 2730, 2740, 2750, 3100/ASC 2540, 3150, 3180, 3375, 3701, 3702, 3705, 3711, 3712, 3720, 3725, 3731, 3732, 3735, 3740, 3750, 3760, 3795; PHI 3540; RCT 2040; THE 3510.

Social Sciences Group (six semester hours from different disciplines): GOV 2160, 2240, 2430, 2510, 3330, 3590, 3800; SOC 1170, 1190, 2410, 2420, 2440, 2450, ANT 2750.

Arts, Media, and Technology Group (three semester hours): ART 1830, 1840, MUS 1230, 1260, 1300.

Capstone ASP Seminar (3 semester hours) Seminar in American Studies: Engaging American Culture

The seminar introduces students to recent developments in American Studies focusing on social justice, community-based research projects, fieldwork, and problem-solving methodologies.

Catholic Studies

18 semester hours including: THE 1000C, 2000, 3000, and nine semester hours approved by the minor program director; up to six semester hours may be taken outside of the department of Theology and Religious Studies with the permission of the director.

Women's, Gender, and Sexuality Studies

15 semester hours chosen from the following (maximum of six semester hours may be taken in the same discipline): ANT 1025, 1110; ART 1840, 3100, 3725; CLS 1240; ENG 3260, 3280, 3350, 3475, 3570; FRE 3830, 3902; GOV 1280;

HIS 3140, 3300, 3460, 3560, 3561, 3562, 3731, 3732, 3735; ITA 3830, 3902; PHI 3330; PSY 2240; SOC 1025, 1150, 1170, 1570, 2020, 2110, 2220, 2330, 2430, 2440, 2470; SPA 3450, 3920; THE 3240. Internships may also receive course credit with the approval of the director.

Multicultural and Multiethnic Studies

18 semester hours including: ANT 1010, 1040, 1155/RCT 1155 and nine semester hours from courses relating to culture/civilization, each course from a different region of the world: Africa, Asia, Europe, Latin America and the Caribbean, and Middle East.

Courses applicable to the minor:

Africa: ANT 2450; ENG 3330; FRE 3820; GOV 3680; HIS 2302

Asia: ASC 1230, 1250, 1300, 1310, 1480, 1490, 1800/THE 2840, 2210, 2510/HIS 2312, 2710/GOV 3710, 2720/GOV 3720; PHI 3590; THE 2830.

Europe: ENG 3540; FRE 3090, 3100, 3550, 3560, 3600, 3670, 3690; GOV 2650, 2660; HIS 3511, 3512, 3652, 3653; ITA 3090, 3100, 3550, 3560; LLT 1040; SPA 3090, 3550, 3610, 3770, 3780.

Latin America and the Caribbean:

ANT 2440; FRE 3820; GOV 2690, 2750, 2760; HIS 2331, 2332; SPA 3100, 3560, 3700, 3730, 3740.

Middle East: GOV 3820; THE 2850, 3850.

New York Studies

18 semester hours including: DNY 1000C and fifteen semester hours chosen from the following: ART 1020; BLW 1040; ECO 1019; ESP 1050; GOV 2470, 2480; HIS 3760, 3770; RCT 2090; SOC 1011, 1021, 1080, 1190, 2460, 2630; THE 3320; TVF 1740.

Note: No more than six semester hours can be from mini-session courses. No more than six semester hours can be from any one discipline.

Social Justice: Theory and Practice in the Vincentian Tradition

18 semester hours including: THE 2320, 4995, three semester hours chosen from: PHI 2200C, 2240C; THE 2300, three semester hours chosen from: SOC 1190; ECO 1320, and six semester hours chosen from the following: ART 1830; BIO 1360; CRJ 3005; ECO 1024; ESP/GOV 2160, ESP/GOV 2170; GEO 2001; GOV 2850; HIS 3110, 3120, 3740, 3780; LES 1018, 1023, 1024; PHI 3720; PSY 1019; SOC 1070, 1170, 1590, 2100, 2460; RCT 2060, 3150; THE 3310, 3320.

In addition, students must complete a minimum of 40 hours of service-learning in the courses in the minor.

Specific Entrance Requirements

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

English	4
Mathematics	2
History	1
Science	1
Foreign Language	1
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 Art and Design 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.
3. Students seeking admission to the B.A. degree in Speech-Language Pathology and Audiology must have a high school average of at least 82 and a combined SAT score of 1100.

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 of Liberal Arts and Sciences. Only courses with grades of C or better will be considered for transfer. See the Graduation Requirements section of this bulletin to see how transfer credits impact graduation honors eligibility. Transfer students must contact Transfer Student Services at 718-990-3372 to schedule an interview to plan their academic program.

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. All external transfer students seeking admission to the B.A. degree in Speech-Language Pathology and Audiology must have a GPA of at least 3.0.

Credits may be accepted for transfer if it was earned at a college/university that is accredited by a regional accrediting organization (e.g., Middle States Commission on Higher Education) 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 Education Service evaluation before transfer credits are awarded.

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. All internal transfer students seeking admission to the B.A. degree in Speech-Language Pathology and Audiology must have a GPA of at least 3.0.

Advanced Placement/ International Baccalaureate

St. John's College awards Advanced Placement to those entering freshmen who earn a requisite score on the Advanced Placement tests. Advanced placement credits will be awarded at the discretion of the dean's office.

With respect to 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 (HL) courses. No credit will be awarded for standard level (SL) exams.
2. The College will evaluate IB higher level courses on a course-by-course basis.
3. Credit will be considered for higher level exam results with a grade of 5 or higher.
4. Students must submit official transcripts of exam results.

Fresh Start Rule

An undergraduate student accepted for readmission to St. John's College after an absence of five or more years from the University may 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+, and C are counted for credit. 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 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.

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. Please refer to the Office of the Registrar section of this bulletin for more information.

To remain in good academic standing, a student must maintain a minimum grade point average of 2.0 both cumulatively and in their major area. A student who fails to meet these standards is placed on academic probation and limited to a program of 15 credits (five 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. Students are responsible for all announced exams and for submitting all assignments on time. Ignorance of such exams and assignments is not an acceptable excuse for failure to complete them. Individual faculty members determine participation requirements and if a makeup exam will be given as stated within their course outlines and requirements.

Several types of courses such as writing courses, science laboratories, global language and culture courses, art studios and speech performance courses are not covered under this general requirement and may have specific attendance requirements. Students are responsible for the published attendance requirements in any course for which they are registered.

Pass-Fail Option

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

The 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 and/or term (e.g., Pre-session, Summer Session I, Summer Session II, and Post-Session are considered one term) with the total during the three years, 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). The Pass-Fail Option may not be used toward major/minor courses taken as free electives either. 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 submitted on-line through UIS. 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 with the exception of the final exam or assignment because of circumstances that are typically beyond the control of the student. Any student receiving an ABF must submit a written explanation, along with substantiating evidence, to his/her dean's office immediately. The academic dean of the college in which the student is enrolled determines if the student is permitted to complete a make-up final exam (for courses with a final exam) or assignment (for courses with a final assignment). If a student's missed final assignment cannot be made up in exactly the same manner as when administered in class, the instructor may substitute another activity or assignment in order to assess the missed final work. If permission is granted, a make-up will be scheduled and a fee of \$80 must be paid to the Bursar prior to the scheduled make-up date. 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 undergraduate 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., B.S./M.S., B.A./M.B.A., or B.S./M.B.A. programs must register with the approval of their department's graduate director and the dean's office.

Other Academic Policies

Students must complete at least one major sequence and no more than 12 credits in additional major courses. Students should consult their Dean's Office regarding second majors and/or minors. Credits in a major beyond the 12-credit limit will not be credited toward the degree. All major and minor changes must be approved by the Dean's Office.

With permission of the Dean, students may be allowed to take courses at other accredited institutions. Students must submit a request including the course title and description, the institution, and the proposed time frame via the Outside Institution Course Request form on UIS. Students must have a minimum 2.0 GPA, must

meet the criteria established by the faculty for taking external courses and should inquire in the college office before they make their request.

Note that grades from courses taken at other accredited institutions will not count towards a student's St. John's University grade-point average, only the credits will transfer. However, the grades will be taken into account when calculating honors for graduation. See the Graduation Requirements section of this bulletin to see how transfer credits impact graduation honors eligibility.

For all students, a maximum of 18 credits of professional courses (education, business, pharmacy, etc.) may be applied to the degree. Students in an approved adolescence education program leading to teaching certification may take up to 42 credits of education courses toward their degree requirements.

To be awarded a St. John's College major, at least 50% of the coursework must be completed by way of St. John's College courses. Previously completed courses may be applied but may not make up more than 50% of the total credit.

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

Epsilon Delta: Speech Communication Arts and Public Address

Gamma Kappa Alpha: Italian

Lambda Alpha Sigma: Anthropology

Omicron Delta Epsilon: Economics

Phi Sigma Tau: Philosophy

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 chair of the department in consultation with the dean's office 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 seniors from the government and politics major and public administration and public service major.

The Charles Lacaille Award is presented to 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

Pathway 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 Psychology/Criminology and Justice

B.A./M.A. in Sociology

B.A./M.A. in Sociology/Criminology and Justice

B.A./M.A. in Spanish

B.A./M.A. in Theology

B.F.A./M.A. in Fine Arts/Museum Administration

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 their undergraduate

degree requirements in four years. This ensures receipt of the bachelor's degree if the student decides not to continue for the fifth year. Should the student decide not to continue with the pathway program after the fourth year, he/she can reapply to a master's program at a later date.

To be considered for a pathway program, applicants must have completed the sophomore year with at least a 3.0 overall index and a 3.0 index in 12 credits applicable to the major. Students should consult the St. John's College Dean's Office for additional qualification/application information.

Collaborative Programs

B.A./J.D. 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 an undergraduate 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./O.D.

This highly competitive accelerated program permits qualified students to earn a B.S. in Biology from St. John's University and an O.D. from SUNY College of Optometry in seven years. This program is open to incoming freshmen with superior academic credentials.

Admission interviews are required. All science courses for these combined degree programs are conducted on the Queens campus.

B.A./M.B.A. and B.S./M.B.A.

B.A./M.B.A. in Anthropology/Business Administration

B.A./M.B.A. in Asian Studies/Business Administration

B.A./M.S. in Asian Studies/Accounting

B.A./M.B.A. in English/Business Administration

B.A./M.B.A. in French/Business Administration

B.A./M.B.A. in History/Business Administration

B.A./M.B.A. in Italian/Business Administration

B.S./M.B.A. in Mathematical Physics/Business Administration

B.S./M.B.A. in Physics/Business Administration

B.A./M.B.A. in Psychology/Business Administration

B.A./M.B.A. in Sociology/Business Administration

B.A./M.B.A. in Spanish/Business Administration

These programs permit highly qualified students to complete a bachelor's degree from St. John's College and a master's degree from Tobin College of Business in five years. Students should consult the St. John's College Dean's Office for additional qualification/application information.

Bachelor Degrees leading to Adolescent Education Certification

Students in selected major fields can opt to include 42 credits in Adolescent Education courses in conjunction with their major requirements. Students graduate with a bachelor's degree in the major field and may be certified by New York State to teach if they fulfill all certification requirements. For information about NYS certification exams and requirements, students should consult with The School of Education. Admission into any of these programs requires a minimum of 3.0 GPA which must be maintained throughout the academic program. Students may pursue Adolescent Education in the following major fields: Biology, Chemistry, English, French, Italian, Mathematics, Physical Sciences, Social Studies, and Spanish. All fields are offered on the Queens campus; English, Mathematics, Social Studies are also offered on the Staten Island campus. Students must complete the following 42 credits in professional education courses:

EDU 1000	3 credits
EDU 1002	3 credits
EDU 1008	3 credits
EDU 1011	3 credits
EDU 1012	3 credits
EDU 1015	3 credits
EDU 1022	9 credits
EDU 1028	3 credits
EDU 1053	3 credits
EDU 1055	3 credits
EDU 1091, 1092, 1093, 1094, or 1096	3 credits
EDU 1097	3 credits

Independent Study and Readings Guidelines

Student must submit to the Department Chair a contract signed by a faculty member from the student's major department. Contract must include: a brief description of the course of study; a representative and tentative bibliography; the requirements established by the faculty member and the approval of the contract by the Department Chair.

Restrictions: Student must have completed a minimum of 12 credits in the major; achieved a minimum 3.0 GPA in the major; the topic of the assigned readings course must be distinct from the department's course listings in the Bulletin; the course may not be substituted for a major requirement.

Exception: In those departments with a limited number of student majors, the course may be substituted for a requirement in the major with the approval of the Chair.

A student may not take more than two courses of independent research and/or study without the express approval of the Department Chair.

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.

Pre-Professional Advisory Programs

Pre-Law

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 law school. Interested students should contact their Dean's Office.

Pre-Health

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 health professional schools, and helps them develop the personal qualities necessary for these health 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.

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 major. 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.

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
First Year Writing	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 College Core Courses:

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

Major Requirements: 30 to 46 credits

(see departmental pages for specific details)

General Electives: 17 to 30 credits

Graduation total: 120 credits minimum

Bachelor of Science Core Curriculum and Major Requirements

University Common Core Courses:

Discover New York	3
First Year Writing	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 College Core Courses:

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

Major Requirements: 23 to 55 credits
(see departmental pages for specific details)

Additional Math or Science Requirements Specific to Each Major Field:

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

Major Requirements:

Biology	29 credits
Chemistry	46–51 credits
Env. Science	50 credits
Mathematics	55 credits
Physics	23–51 credits

General Electives: 3 to 27 credits

Graduation total: 120 credits minimum

Bachelor of Fine Arts Core Curriculum and Major Requirements

University Common Core Courses:

Discover New York	3
First Year Writing	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 College Core Courses:

None

Art and Design Requirements:

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

(see Art and Design departmental pages for specific requirements regarding portfolios and internships)

General Electives: None

Graduation total: 132 credits minimum

The Institute for Core Studies (ICS)

The Institute for Core Studies (ICS) was created to help first-year students in their academic transition to University Life. As a unit, the three courses comprising the ICS, First Year Writing, Scientific Inquiry, and Discover New York assist first-year students in becoming their own intellectual "gatekeepers" of the large amounts of information from a wide variety of sources.

The ICS has five basic educational goals: (1) helping students to develop critical thinking and information literacy skills; (2) familiarizing students with the evidentiary bases of scientific knowledge, the use of quantitative and qualitative research skills, and the distinctions between correlation and causation in the transmission of knowledge; (3) assisting students in developing the writing capabilities and oral communication skills necessary to express their own thoughts and feelings and questions about the world around them; (4) encouraging student understanding of and an appreciation for the uniquely multi-cultural nature of the New York City Metropolitan area; (5) actively engaging students in the University's Vincentian mission of service to the community by emphasizing Academic Service Learning.

Each of the three classes comprising the ICS plays a distinct but ultimately interrelated part in achieving these goals.

Discover New York (DNY 1000C) encourages students to engage intellectually and personally with the remarkable city that not only houses St. John's University but also serves as home to people from literally all over the world.

Faculty members develop DNY courses around the application of their own academic disciplines, and employ these disciplines as the conceptual lenses to address the general framework defining DNY's educational goals. As a result, students have the opportunity to "see" New York City through a particular academic perspective including those focused on the arts, business, socio-political relationships, literature, and media in the city. With a continual emphasis on critical thinking and information literacy skills as the primary pedagogy of learning, the city becomes the laboratory for the students' application of the course focus. Moreover, with the emphasis on Academic Service Learning, the city is experienced by students as a place populated with "real people," many of whom live in difficult situations and need assistance.

First Year Writing (FYW 1000C) focuses on literacy education, challenging students to see writing as a multifaceted activity, and immersing them in multiple and far-ranging experiences with writing. Professors help students gain comfort in writing, through a repertory of practices: pre-writing and generating techniques, multiple approaches for developing and organizing their own message, a variety of strategies for revising and editing their own original texts, and ways of preparing products for public audiences and for deadlines. The faculty focuses on developing students' reflective abilities and meta-awareness about writing by encouraging students to embrace writing, not simply as a set of strategies for the production of essays, but an exercise in thinking. Students are helped to grow as writers through opportunities to discuss what they are writing about with their peers as well as by attending writing conferences with their professors. The faculty creates spaces for student-writers to experience a web of relationships and craft their own unique identities with texts, writing, and multiple literacies.

Scientific Inquiry (SCI 1000C) introduces students to the way scientists think about and view the world. Through a specific theme, such as evolution, atomic theory, energy, or plate tectonics, students will develop their critical thinking and quantitative reasoning skills. The historical development of the specific theme is explored to learn how scientific theories change and develop over time as new discoveries occur. Science is empirical in nature. To understand the process of science, students investigate how experiments are designed and the results interpreted. Students learn the logic of the scientific method and how it may be used to solve problems in their everyday lives. They also learn how data may be biased and misinterpreted using historical examples. Finally, because science is not conducted in a vacuum, and it impacts the world around us, the students analyze societal issues that deal with science in terms of values, ethics and responsibilities.

Discover New York (DNY 1000C)

THEMES:
The Global City
The Arts
Social Justice
Communication
Literature
Social Institutions
Urban Development
Business and Commerce
Environment and Sustainability

First Year Writing (FYW 1000C)

THEMES:
Thinking globally, writing locally
Dialogues across cultures and time
Writing and social justice
Traversing genre: Writing across forms
Writing for self, college, and world
Poetics of place
Reading, writing, and reflection
Bookmaking as critical inquiry
People's writing
Reading and writing multimodal texts
Making the strange familiar and the familiar strange
Writing encounters

Scientific Inquiry (SCI 1000C)

THEMES:
Atomic Theory
Ecology
Evolution
Forensics
Infectious Diseases
Plate tectonics
Kinesiology
Origins of the Universe

Anthropology (ANT)

Please see p. 82-85

Art and Design (ART)

Major Sequences

Art History

45 semester hours including: ART 1710, 1720, 1750, 1760, three semester hours in Studio Art in consultation with the department, six semester hours of Foreign Language or other Interdisciplinary Courses in consultation with the department, nine semester hours of Western Art History electives, nine semester hours of non-Western Art History electives, three semester hours of an Advanced Seminar chosen from: ART 3100, 3710, 3720, 4000, and three semester hours of a Research Seminar chosen from: ART 4010, 4020.

Fine Arts

84 semester hours including: ART 1110, 1130, 1200, 1210, 1510, 1630, 1710, 1720, 2120, 2220, 2310, 2320, 2520, 2750, 2755, 3115, 3350, 3560, 4112; 1135 or 1105; 3200 or 3720; 4909 (nine-credit internship) or 4125 (nine-credit Creative Thesis); plus twelve semester hours from the approved ART elective list as recommended by the department.

Graphic Design

84 semester hours including: ART 1105, 1110, 1115, 1130, 1710, 1720, 2115, 2125, 2130, 2145, 2750, 3110, 3120, 3125, 3130, 3135, 3350, 4120, nine semester hours chosen from: ART 1120, 1200, 1280, 1510, 1630, 1640, 2120, 3015, 3115; 4909 (nine-credit internship) or 4125 (nine-credit Creative Thesis); plus twelve semester hours from the approved ART elective list as recommended by the department.

Illustration

84 semester hours including: ART 1105, 1110, 1115, 1210, 1270, 1280, 2125, 2220, 2230, 2265, 2280, 2310, 3110, 4112, twelve semester hours of required Art History courses: ART 1710, 1720, 2145, 2750, nine semester hours chosen from: ART 1510, 1520, 1630, 2115, 2130, 2320, 3125, 3570, ART 4909 (nine-credit internship), or 4125 (nine-credit thesis), plus twelve semester hours from the approved ART elective list as recommended by the department.

Photography

84 semester hours including: ART 1105, 1110, 1130, 1610, 1620, 1630, 1650, 1660, 2650, 3710; ART 3655 or 4953; ART 2655 or ICP 1005; ART 3560 or ICP 1006; ART 4110 or ICP 1007; ART 4112 or ART 3110 or ICP 1008; ART 3010 or ICP 1009; three semester hours in Art History electives, fifteen semester hours in Photography in affiliation with the International Center of Photography (ICP) (one academic semester), ART 4909 (nine-credit internship), or 4125 (nine-credit Creative Thesis), plus nine semester hours from the approved ART elective list as recommended by the department.

Minor Sequences

Art

18 semester hours including: ART 1110, 1130, 1200, and nine semester hours chosen from: ART 1000C, 1010, 1020, 1030, 1040, 1050, 1060, 1085, 1090, 1095, 1210, 1270, 1290, 1510, 1610, 2120, 2220, 2265, 2310, 2520, 3010, 3115, 3340, 3565.

Art History

18 semester hours including: ART 1710, 1720, 2750, six semester hours of Art History elective courses from approved Art History electives list

in consultation with the department, and three semester hours of a studio course selected from: ART 1110, 1200, 1270, 1290, 1510, 1610, 1640, 2265, 2310, 2520, 3010, 3115, 3550, 3565, or approved courses abroad.

Graphic Design

18 semester hours including: ART 1105 or 1135; 1115, 2125, and nine semester hours chosen from: ART 1120, 2115, 2130, 3105, 3115, 3120, 3125.

Photography

18 semester hours including: ART 1085 or 1610; 1086 or 1620; 1630, 1660, and six semester hours chosen from approved ART electives.

Music

18 semester hours including: MUS 1010; 1020 or 2020; nine semester hours from approved MUS electives, and three semester hours in applied music courses from approved list.

Musical Theatre

18 semester hours including: MUS 1260, RCT 1510 or 1530, and 1540, three semester hours in Voice (MUS 1620*, MUS 2620), and six semester hours chosen from: MUS 1070, 1230, 1240; RCT 1520, 1580, 1590, 2540.

* MUS 1620 may be repeated twice.

Art and Design Course Offerings (ART)

Non-Major Art Courses

1000C The Creative Process

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, \$50.*

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. *Credit: 3 semester hours. Studio fee, \$50.*

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, \$50.*

1030 The Visual Arts

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, \$50.*

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, \$50.*

1060 Watercolor Workshop (Mini-Course)

An intensive course in the watercolor medium. Projects are structured to teach students visual sensitivity and creativity. *Applicable to major/minor sequences with written permission of the chair. Credit: 3 semester hours. Studio fee, \$50.*

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. *Applicable to major/minor sequences with written permission of the chair. Digital camera required. Credit: 3 semester hours. Studio fee, \$50.*

1085 Introduction to Photography

An introduction to the tools, techniques and creative aspects of the photographic medium. *For non-majors only. Digital camera required. Credit: 3 semester hours. Studio fee, \$50.*

1086 Intermediate Photography

Prerequisite: ART 1080 or 1085. An exploration of intermediate, techniques, aesthetics, criticism and processes of photography. *Digital camera required. Credit: 3 semester hours. Studio fee, \$50.*

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, \$50.*

1095C Monuments of World Architecture

This course investigates sacred and secular architecture from around the globe, dating from the beginning of civilization to the present. *Credit: 3 semester hours.*

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, \$50.*

1110 Foundation Design

A basic course in the elements of design and the principles of composition, pictorial space and structure as they relate to image making. *Credit: 3 semester hours. Studio fee, \$50.*

1115 Introduction to Graphic Design II

Prerequisite: ART 1105. 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, \$50.*

1120 Social Media for the Arts

Prerequisite: ART 1105 or permission of chair. Students will use social media to develop and disseminate creative projects working with a variety of platforms. *Credit: 3 semester hours.*

1130 Foundation Design II

This course extends the exploration of the fundamental language of the visual arts, begun in Foundation Design I, by emphasizing color, advanced illusions of space and movement, as well as introducing the principles of time. *Credit: 3 semester hours. Studio fee, \$50.*

1135 Digital Media I

Introductory course exploring the use of computers as a tool in the visual arts. Students will use computers to solve visual problems, and create digital images. *Credit: 3 semester hours. Studio fee, \$50.*

1200 Introduction to Drawing I

Black and white drawing materials, such as pencil, pen, brush and ink, conté, charcoal and chalks, are explored. Students are guided by problems in direct observation, linear and elliptical perspective, space, composition, modeling, and line quality. *Credit: 3 semester hours. Studio fee, \$50.*

1210 Introduction to Drawing II

Prerequisite: ART 1200. 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, \$50.*

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.*

1255 The French Sketchbook (Abroad)

A studio course in drawing and watercolor techniques, using landscape, architecture, and people of France 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, \$50.*

1280 Digital Illustration

An introduction to working on illustration in a software-driven, media environment. Students will make narrative art developed initially using traditional methods and then take comprehensive drawings through to finish using the Adobe software environment. *Credit: 3 semester hours. Studio fee, \$50.*

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, \$50.*

1510 Relief and Intaglio Printmaking

This course introduces the methodologies and concepts of relief and intaglio printmaking processes. These processes include linoleum and wood cut, found objects, dry point etching and variations of intaglio. *Credit: 3 semester hours. Studio fee, \$50.*

1610 Photography I

An introduction to the tools, techniques and creative aspects of the photographic medium. *DSLR camera recommended. Credit: 3 semester hours. Studio fee, \$50.*

1620 Photography II

Prerequisite: ART 1610 or 1085 with permission of chair. This course will emphasize the critical analysis and development of the student's personal photographic work, and the refinement of basic techniques. *DSLR camera recommended. Credit: 3 semester hours. Studio fee, \$50.*

1630 Advanced Digital Photography and Imaging

Prerequisite: ART 1105, or 1610, or 1085 with permission of chair. An in-depth look at the central features and functions of Adobe Photoshop and Lightroom. *Credit: 3 semester hours. Studio fee, \$50.*

1640 Introduction to Video Art

Introduction to video as a fine art medium addressing historical and conceptual background as well as the techniques and tools for developing works. *Credit: 3 semester hours. Studio fee, \$50.*

1650 Analog Photography and Experimentation

An introduction to film and photographic darkroom printing and image-making processes. *Credit: 3 semester hours. Studio fee, \$50.*

1660 History of Photography

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

1710; 1720 The History of Art I; II

This course surveys the history of painting, sculpture, and architecture from the prehistoric era to the twentieth century. *Credit: 3 semester hours per semester.*

1740 Modern and Contemporary Architecture

The history of modern and contemporary architecture and urban planning with an emphasis on developments in the United States, Europe from the beginning of the 20th century to the present is studied in relation to political, economic, and social history. *Credit: 3 semester hours.*

1750 Writing About Art

A writing-based curriculum for art historians, artists and anyone who wants to write about art from any perspective with any level of experience. *Credit: 3 semester hours.*

1760 Art History: Method & Theory

Theories, methods and research strategies in the discipline of art history. *Credit: 3 semester hours.*

1775 Art and Architecture in France (Abroad)

An overview of painting, sculpture, and architecture in rural France and the city of Paris from Roman Gaul through the 19th century. *Credit: 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.*

1795A The City of Rome (Abroad)

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

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.*

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.*

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.*

2025 Renaissance Art and Baroque Art in Europe

After briefly considering the Byzantine and Gothic legacy, the course will examine painting, sculpture, architecture, and to a lesser extent, crafts of Italy during the fourteenth, fifteenth, and sixteenth century. *Credit: 3 semester hours.*

2115 Graphic Production

Prerequisite: ART 1115. This course is designed to prepare the student for professional work as a graphic designer by giving the student a thorough understanding of packaging design and print production. Students will be confronted with a variety of design problems that will facilitate the understanding of the design process and the environmental and social ramifications of producing design outputs. *Credit: 3 semester hours. Studio fee, \$50.*

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, \$50.*

2125 Typography

Prerequisite: ART 1115. In this course, students will explore the history, evolution, and use of type in design, through projects and class lectures. Emphasis will be placed on the use of typography in design studio projects. *Credit: 3 semester hours. Studio fee, \$50.*

2130 Motion Graphics

Prerequisite: ART 1105 or 1115. 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. *Credit: 3 semester hours. Studio fee, \$50.*

2135 Advanced Digital Media

Prerequisite: ART 1115 or 1135. An advanced course in computer graphics provides the opportunity to produce portfolio quality computer-generated graphics as it applies to print and screen-based media. *For the non-major. Credit: 3 semester hours. Studio fee, \$50.*

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 through design and illustration. *Credit: 3 semester hours.*

2205 Medieval Art and Architecture

Medieval art and architecture across nearly one thousand years, from 400 to 1300 CE. *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, \$50.*

2230 Anatomy and Figure Drawing II

Prerequisite: ART 2220. 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, \$50.*

2240 Drawing for Design

This course is designed to introduce students to digital and analog drawing techniques used to create visuals for Illustration and Graphic Design. *Credit: 3 semester hours. Studio fee, \$50.*

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.*

2265 Global Sketchbook

Prerequisite: ART 1050 or ART 1200. An online drawing course that uses as its subject the local sites particular to each student regardless of global location. *Credit: 3 semester hours.*

2280 Illustration II

Prerequisite: ART 1270. 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, \$50.*

2310 Painting I

An introduction to painting composition emphasizing the development of various technical skills. Projects are observation-based and employ perspective, color theory, and process. *Credit: 3 semester hours. Studio fee, \$50.*

2320 Painting II

Prerequisite: ART 1200, 2310. This course builds on the principles of Painting I encouraging investigation into painting's conceptual, material, and expressive possibilities. *Credit: 3 semester hours. Studio fee, \$50.*

2520 Planographic Printmaking

This course introduces the methodologies and concepts of planographic methods of printmaking processes. These processes include stencils, screen-printing, transfer methods, monoprints and variety of newer adaptations, such as polyester plate lithography. *Credit: 3 semester hours. Studio fee, \$50.*

2530 Printmaking III

Prerequisite: ART 1510, 2520. This course examines advanced concepts of printmaking processes extending expertise from introductory printmaking. Students will adapt a wider and more complex variety of printing techniques while understanding the changing role of the medium. *Credit: 3 semester hours. Studio fee, \$50.*

2650 The Photograph as Document

Prerequisite: ART 1610; 1080 or 1085 can also serve as prerequisite with permission of chair. Documentary approaches to photographic images that articulate issues of social justice and interpersonal issues. *The student must have access to a camera. DSLR camera recommended. Credit: 3 semester hours. Studio fee, \$50.*

2655 Analog Photography II

An in-depth photography studio course focused on traditional film and darkroom printing practices, and the introduction of the large-format view camera. *Credit: 3 semester hours. Studio Fee, \$50.*

2660 Urban Documents

A study of urban society, social justice and culture through photographic documentation and research. *Credit: 3 semester hours.*

2705 Ancient Egyptian and Mesopotamian Art

This course explores ancient Egyptian and Mesopotamian art and archaeology from approximately 3000 BCE to the Classical era. *Credit: 3 semester hours.*

2715 Classical Archaeology

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

2730 Pre-Columbian Art

A survey of the art and culture of selected civilizations of the ancient Americas, including the Aztec, Inca, Maya, and Taíno. *Credit: 3 semester hours.*

2735 Art of Asia and the Pacific

A general survey of the art and architecture of Asia and the Pacific Islands from ancient prehistory to the industrial age. *Credit: 3 semester hours.*

2740 Rococo to Revolution

This course surveys developments in European painting, sculpture, and architecture from 1789 through the close of the 19th century. *Credit: 3 semester hours.*

2745 Art of Africa

A general introduction to the art and architecture of the African continent from ancient prehistory to present. *Credit: 3 semester hours.*

2750 Historical Modernism: 1848-1945

This survey course introduces students to methods of visual, critical, and art historical analysis, focusing on art works, artists and art movements, critical writing and art institutions of the twentieth century, treated in light of socio-political and cultural developments of this period. *Credit: 3 semester hours.*

2755 Art Since 1945

Focusing on international art of the postwar period, this course examines works, artists, art movements, exhibitions, and institutions in relation to critical and theoretical texts and through interdisciplinary methods, locates developments in global contemporary art in socio-political and cultural contexts. *Credit: 3 semester hours.*

2760 Latin American Art

A study of the art history of Latin America from Pre-Columbian times to the colonial and the modern periods, all of which were characterized by widespread and intensive encounters between people of radically different cultural values. *Credit: 3 semester hours.*

2765 Islamic Art

This course explores Islamic art and architecture from around the globe, dating from the era of the seventh-century CE foundation of Islam to the present. *Credit: 3 semester hours.*

3010 Special Topics in Studio Art

Prerequisite: For junior or senior BFA majors. This course provides opportunities for students to engage in supervised projects that bring variable discipline-specific knowledge and methodological inquiry to bear on the practice of creating visual art. *Credit: 3 semester hours. Studio fee, \$50.*

3015 Special Topics in Design

Prerequisite: ART 2125. This course provides opportunities for students to engage in supervised projects that bring variable discipline-specific knowledge and methodological inquiry to bear on issues in the field of design. *Credit: 3 semester hours. Studio fee, \$50.*

3100 Women in the Arts

A survey of art history through the lens of gender studies, introducing students to an expanded canon of art history and to critical, theoretical, and historical writing on the subject of women in the arts. *Credit: 3 semester hours.*

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, \$50.*

3115 Book Arts

Prerequisite: ART 1105, 1510. This course will introduce students to the book as an art form. Emphasis is on visual and conceptual structuring of the book that investigates the interplay between idea and form. Various methods of book construction will be taught along with basic printing techniques encompassing traditional and digital methods that focus on the sequencing of images. *Credit: 3 semester hours. Studio fee, \$50.*

3120 Interaction Design I

Prerequisite: ART 1105. This course is specifically structured to introduce art majors to the tools and visual language required for successful web design. *Credit: 3 semester hours. Studio fee, \$50.*

3125 Advanced Typography

Prerequisite: ART 2125. Complex typographical concerns exploring the use of type in a variety of medias, with emphasis on the development of a personal typographical problem solving. *Credit: 3 semester hours. Studio fee, \$50.*

3130 Interaction Design II

Prerequisite: ART 3120. This course is structured to introduce art majors to media rich Web design via coding and the integration of a variety of web tools. This design course allows students to add animation and interactivity to their web design projects. *Credit: 3 semester hours. Studio fee, \$50.*

3135 Junior Design

Prerequisite: ART 3125. This course will emphasize the formal visual and theoretical competencies and skills needed in design problem solving through advanced level studio projects. *Credit: 3 semester hours. Studio fee, \$50.*

3200 Criticism Theory and Practice Seminar

A survey of theoretical texts informing contemporary art making over the last three decades and the application of new vocabulary, concepts, and analytical tools in creative studio work. *Credit: 3 semester hours.*

3240 Drawing III

Prerequisite: ART 1200, 1210. This course focuses on the activity of drawing through the exploration of a variety of mediums and contemporary processes. While working from the basis of their own thematic and formal concerns, students will be directed through a series of experimental projects that investigate the fabrication of line and its relationship to other media. *Credit: 3 semester hours. Studio fee, \$50.*

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, \$50.*

3340 Figurative Painting (Painting III)

Prerequisite: ART 2220. Developing a focus in figurative concerns, this investigation pursues a refinement of the student's directions in painting. *Credit: 3 semester hours. Studio fee, \$50.*

3350 Mixed Media Concerns

An advanced level of research pursuing high standards of studio creativity and application. *Credit: 3 semester hours. Studio fee, \$50.*

3355 3D Printing & Digital Manufacturing

Studio course providing hands on training in the field of 3D printing that surveys the impact of this disruptive technology within our society. *Credit: 3 semester hours. Studio fee, \$50.*

3550 Experimental Printmaking

Prerequisite: ART 2530. This course encourages further exploration of various printmaking media including digital printmaking. For advanced printmakers. *Credit: 3 semester hours. Studio fee, \$50.*

3560 Studio Seminar I

This studio course introduces students to methods for independent creative inquiry and artistic production. The course encourages thematically unified projects that are inventive and topical. *Credit: 3 semester hours.*

3565 The Visual Narrative

Prerequisite: Foundation courses within BFA major must be completed. This course will provide a creative and critical forum in which junior and senior level artists of diverse media can work on their own unique narrative projects simultaneously. *Credit: 3 semester hours.*

3570 Junior Sequential Art

Prerequisite: ART 2220, 2280. This course explores the planning, composition, and methods of narrative art and image creation, focusing on the development of image layout and methods that bring ideas from roughs to finished forms. *Credit: 3 semester hours.*

3655 Photographic Studio & Lighting Practices

A studio class concentrating on the technical and creative practices of lighting as applied to portraiture, commercial, editorial, and fine art photography. *Credit: 3 semester hours.*

3710 Contemporary Photography

Survey of contemporary photography examining the major changes and movements since 1960. Students will study images that span across genres of photography, meet professional photographers, editors and curators. *Credit: 3 semester hours.*

3720 Global Contemporary Art

This course introduces students to the conceptual, theoretical, and aesthetic themes/debate driving the current production of and discussion about contemporary art in a global context. *Credit: 3 semester hours.*

3725 Gender, Sexuality, and the Body in Pre-Christian Art

Gender, sexuality, and the body in the art of pre Christian world cultures. *Credit: 3 semester hours.*

4000 Special Topics in Art History

A study of special themes and topics in art history from the twentieth century to the present. The course is intended to supplement regular course offerings in the Department of Art and Design. *Credit: 3 semester hours.*

4010 Supervised Research/Independent Study in Art History

Student-generated supervised research project that provides training in art historical research methods. *Credit: 3 semester hours.*

4020 Research Seminar in Art History

Training in art historical research methods to produce sophisticated research papers based on primary resources and current approaches in the discipline. *Credit: 3 semester hours.*

4110 Studio Seminar II

In this advanced level studio course students will create a body of creative work that responds to evolving issues within society and Contemporary Art. *Credit: 3 semester hours.*

4112 Professional Practices for Fine Art and Illustration Majors

This course enhances students' knowledge of career opportunities and facilitates their preparation for the professional working world of the fine artist and illustrator. Students will develop communication skills, preparing artists statements, resumes and professional quality documentation of their work in order to apply for grants, graduate school, gallery/artists representation and other applications. *Credit: 3 semester hours.*

4115 Senior Sequential Art

Prerequisite: ART 3570. This course concentrates on the development, design, and execution of narrative art for publication across media. *Credit:* 3 semester hours.

4120 Senior Design

Prerequisite: ART 3135. The development of theories and practices for communication design exploring social responsibility, sustainability, ethics, client relations, originality and compensation are covered. *Credit:* 3 semester hours. *Studio fee, \$50.*

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, \$50.*

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

A semester of independent work in the student's major field of concentration. *Open to BFA candidates only. Permission of the department chair required. Credit:* 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. *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.

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.

1030 Introduction to Music Composition

An introduction to composition through a series of class projects and exercises that aim to develop a working knowledge of music theory and gain important hands-on experience in the creation of music. *Credit:* 3 semester hours.

1035 Songwriting

An introduction to songwriting in which students will create musical notation, use production software, and write lyrics to create musical compositions. *Credit:* 3 semester hours.

2010 Digital Music Production

An introduction to digital technology in music production and composition. *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**1265 Workshop in Musical Theatre**

Introduction to solid singing, acting and performance techniques used in musical theatre. *Credit:* 3 semester hours.

1600; 2600 Piano I; II

Private lessons in piano. *Access to a piano is required. Credit:* 1 semester hour per semester. *Special fee, \$500 per semester.*

1610; 2610 Guitar I; II

Private instruction in guitar. *Credit:* 1 semester hour per semester. *Special fee, \$500 per semester.*

1620; 2620 Voice I; II

Private lessons in voice. Instructor's studio or on campus. *Credit:* 1 semester hour per semester. *Special fee, \$500 per semester.*

1630; 2630 Flute I; II

Private instruction in flute or wind instruments. *Credit:* 1 semester hour per semester. *Special fee, \$500 per semester.*

1640; 2640 Strings I; II

Private instruction in string instruments: violin, viola, or cello. *Credit:* 1 semester hour per semester. *Special fee, \$500 per semester.*

2501 The Gospel Choir

A select ensemble of singers who explore, learn, and perform an exciting repertoire in the gospel music genre and several sub-genres as participants in Voices of Victory gospel choir. *Audition required. Credit:* 1.5 semester hours per semester.

2502 Jazz Ensemble

A select ensemble of instrumental musicians who will explore, learn, and perform an exciting repertoire in the jazz genre and various contemporary music genres as participants in the Jazz Ensemble. *Audition required. Credit:* 1.5 semester hours per semester.

2503 Chamber Ensemble

Prerequisite: Ability to read music. Chamber Music is a course that focuses on musical collaboration. Small ensembles of instrumentalists/singers explore chamber music repertory. Includes performance opportunities and master classes. *Audition required. Credit:* 1.5 semester hours per semester.

2504 Mixed Chorus

A select ensemble of singers who learn and perform an exciting repertoire in the classical, sacred, pop, and Broadway choral music genres as participants in the Mixed Chorus. *Audition required. Credit:* 1.5 semester hours per semester.

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 including ASC 1300 and 2610. Eligible juniors and seniors may also choose graduate-level Asian Studies or Chinese Studies courses with approval of the Director of the Institute of Asian Studies.

B.A./M.A.

Students accepted into the five-year B.A./M.A. program in Asian Studies matriculate for a total of 57 semester hours in ASC and CHI courses. On the undergraduate level, requirements include ASC 1300 and 2610. Students must also complete the following two required graduate-level courses: ASC 102 and 300. For specific M.A. degree program requirements, consult the St. John's University Graduate Bulletin.

Other Accelerated Degree Programs

The Institute of Asian Studies offers a number of undergraduate/graduate accelerated degrees with the Tobin College of Business: B.A./M.B.A. program and B.A./M.S. in Accounting program. All students interested in the combined degree program must fulfill the eligibility requirements stated above for the B.A./M.A.

Minor Sequence

18 semester hours including: six semester hours of ASC 1300 and 2610; six semester hours of Asian languages courses (CHI, JPN, or KOR), and six semester hours chosen under the advisement of the Director of the Institute of Asian Studies.

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.*

1650 Sports in China

The impact of sports in China, domestically and internationally. *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.*

2380 American Investment in China

An introduction to American businesses' rewards and risks in China: foreign direct investment and capital market investment. *Credit: 3 semester hours.*

2480 Doing Business in China

Challenges confronting American businesses seeking opportunities afforded by China's massive economic reform, including issues such as strategic alliances, investments vehicles, marketing and distribution. *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.*

2610 Discovering China

Introduction to Chinese culture: institutions, philosophical trends, religion, art, literature, family/marriage, science and technology. *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.*

2720 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.*

3710 Banking in East Asia

Banking in East Asia: core banking functions, types of banks, diversification of banking activities, risk management issues, bank failure and financial crises, and competitive issues. *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: 10 mandatory sessions at the Global Language and Culture Center per semester. The development of audio-lingual and reading skills through a study of the essentials of grammar, pronunciation and vocabulary. *Credit: 3 semester hours per semester. GLCC fee, \$50 per semester.*

2030; 2040 Intermediate Chinese

Prerequisite: CHI 1020 or placement exam. CHI 2030 is a prerequisite for CHI 2040. Corequisite: 10 mandatory sessions at the Global Language and Culture Center per semester. A review of the essentials of grammar, extensive vocabulary building and development of writing skills. *Credit: 3 semester hours per semester. GLCC fee, \$50 per semester.*

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 per semester.*

Japanese Course Offerings (JPN)

1010; 1030 Elementary Japanese

Prerequisite: JPN 1010 is a prerequisite for JPN 1030. Corequisite: 10 mandatory sessions at the Global Language and Culture Center per semester. 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 per semester. GLCC fee, \$50 per semester.*

2030; 2040 Intermediate Japanese

Prerequisite: JPN 1030 or placement exam. JPN 2030 is a prerequisite for JPN 2040. Corequisite: 10 mandatory sessions at the Global Language and Culture Center per semester. This course increases the student's ability in comprehending, reading and writing Japanese. *Credit: 3 semester hours per semester. GLCC fee, \$50 per semester.*

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 per semester.*

Korean Course Offerings (KOR)

1010; 1020 Elementary Korean

Prerequisite: KOR 1010 is a prerequisite for KOR 1020. Corequisite: 10 mandatory sessions at the Global Language and Culture Center per semester. The students study the fundamentals of the Korean language with emphasis on the Korean alphabet, spelling, pronunciation and basic grammar. *Credit: 3 semester hours per semester. GLCC fee, \$50 per semester.*

2030; 2040 Intermediate Korean

Prerequisite: KOR 1020 or placement exam. KOR 2030 is a prerequisite for KOR 2040. Corequisite: 10 mandatory sessions at the Global Language and Culture Center per semester. 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 per semester. GLCC fee, \$50 per semester.*

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 per semester.*

Biochemistry (BIOC)

Students interested in pursuing an interdisciplinary major in Biochemistry will take a combination of courses housed in the Departments of Biology (BIO) and Chemistry (CHE). See the course descriptions under those programs for more information. The student will be able to develop a foundation in both chemistry and biology and tailor their advanced coursework based on their professional aspirations.

Major Sequence

52 semester hours including: CHE 1210 or 1310; 1220 or 1320; 2230 or 2630; 2240 or 2640; 3250; BIO 2000, 2001L, 3000, 3001L, 3470, 3471L; CHE 3390 or BIO 3390; CHE 3360 or BIO 3360 and three Biochemistry electives chosen from: BIO 2270, 2280, 3300, 3320, 3460, 3830, 4953; CHE 3210, 3220, 3330, 3340, 3450, 4351, 4361; CSC 1380. In addition, students must complete MTH 1730, 1740; PHY 1930; 1940.

Biology (BIO)

Major Sequence

29 semester hours including: BIO 1000, 1001L, 2000, 2001L, 3000, 3001L and five BIO elective courses that account for at least seventeen semester hours. Two of these five BIO elective courses must be 4-credit courses. 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, 1070, 1360, and 1600 are not applicable to the major sequence.

Students are encouraged to take advantage of possibilities for research: BIO 4953 and 4954. Non-biology majors seeking to take one year of Biology should register for BIO 2000, 2001L, 3000, and 3001L.

Pre-MD Track

The Department of Biological Sciences offers Premedical Track in Molecular Biosciences for BIO Majors (PMD Track). The successful completion of the PMD Track requires 3.5 cumulative index overall and at least grades of B+ or better in each science course (math, physics, chemistry, biology). In addition to the requirements for BIO majors, the students in the PMD Track must take PHY 1930, PHY 1940 and three semesters of BIO 599A. The BIO elective courses must account for at least 19 credits and must include at least four courses from the following: BIO 2260, 2280, 3270, 3300, 3320, 3390, 3460, 3470, 3830, 4420.

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 1000, 1001L, 2000, 2001L, 3000, 3001L, 4953, 4954; and one of the following: BIO 3320, 3390, or 3470. In addition, all other science requirements for the major must be completed. 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 including: BIO 1000, 1001L, 2000, 2001L, 3000, 3001L, plus any two other courses listed in the current bulletin and approved by the department for majors. BIO 1050, 1060, 1070, 1360, 1600, and 1859 are not applicable to the minor sequence. *Some of these courses have other prerequisites, such as CHE 2240.*

Biology Course Offerings (BIO)

1000 Fundamentals of Biology, I: Introduction to Population Biology

Corequisite: BIO 1001L. Evolution, classification and taxonomy, population biology and ecology. *Lecture, 3 hours. Credit: 4 semester hours.*

1001L Fundamentals of Biology I Laboratory

Corequisite: BIO 1000. Principles of evolution, population biology and ecology from a laboratory perspective. *Laboratory, 3 hours. Laboratory fee, \$100.*

1050 Human Biology

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

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

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.*

1360 Biology and Society

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.*

1859 Tropical Ecology and Evolution

Study Abroad Winter Intersession field course to the Ecuadorean Highlands and Galapagos Islands. *Not open to BIO majors. Credit: 3 semester hours.*

2000 Fundamentals of Biology, II: Introduction to Cell and Molecular Biology

Prerequisite: CHE 1100 or 1110 or 1210 or 1310 or HON 1310. Basic principles governing the activities of living organisms at the molecular and cellular levels. *Lecture, 3 hours. Credit: 3 semester hours.*

2001L Fundamentals of Biology II: Laboratory

Corequisite: BIO 2000. The principles and concepts of molecular and cell biology from a laboratory perspective. *Laboratory, 3 hours. Credit: 1 semester hour. Laboratory fee, \$100.*

2250 Introduction to Neurobiology

Prerequisite: BIO 2000, 3000. The nervous systems from invertebrate to mammals focusing primarily on the mechanisms by which the brain functions. *Credit: 3 semester hours.*

2260 Cellular Biology of Human Tissues

Prerequisite: BIO 3000, 3001L. Corequisite: BIO 2261L. 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.*

2270 Introduction to Virology

Prerequisite: BIO 2280. Introduction to the biology of viruses including structure, replication, disease causation, and host response to infection. *Lecture, 3 hours. Credit: 3 semester hours.*

2280 General Microbiology

Prerequisite: BIO 2000 or HON 1070. Corequisite: BIO 2281L. 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.*

2290 Immune System in Human Disease

Prerequisite: BIO 2000 or consent of instructor. Introduction into the role of immune system in human diseases. *Lecture, 3 hours. Credit: 3 semester hours.*

2300 Biochemistry of Beer-making and Winemaking

Prerequisite: BIO 2000 or consent of instructor. An introduction into basic biochemical concepts of beer making, winemaking, and industrial ethanol production. *Lecture, 3 hours. Credit: 3 semester hours.*

2310 Botany

Prerequisite: BIO 1000, 1001L. Corequisite: BIO 2311L. The biology of plants: their morphology, evolution and classification. *Field trips required. Lecture, 2 hours. Laboratory, 4 hours. Credit: 4 semester hours. Laboratory fee, \$100.*

2510 Aquatic Ecology

Prerequisite: BIO 1000 or consent of instructor. Corequisite: BIO 2511L. 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, \$100.*

2859 Island Biogeography

Prerequisite: BIO 1000, 2000. Principles of biogeography illustrated and explored during a winter intersession trip to Ecuador, including the Galapagos. *Credit: 3 semester hours.*

3000 Fundamentals of Biology III: Introduction to Anatomy and Physiology

Prerequisite: BIO 2000. Basic principles of anatomy, physiological function, and developmental processes. *Lecture, 3 hours. Credit: 3 semester hours.*

3001L Fundamentals of Biology III: Laboratory

Prerequisite: BIO 2001L. Corequisite: BIO 3000. Basic principles of anatomy, physiological function, and developmental processes from a laboratory perspective. *Laboratory, 3 hours. Credit: 1 semester hour.*

3100 Advanced Anatomy and Physiology I

Prerequisite: BIO 3000, 3001L. Structure of the integument, skeletal, muscular, central, and peripheral nervous systems. Anatomy of the endocrine, cardiovascular, respiratory, digestive, lymphatic, reproductive, and urinary systems. *Lecture, 3 hours. Credit: 3 semester hours.*

3270 Developmental Biology

Prerequisite: BIO 3000, 3001L. Corequisite: BIO 3271L. 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, \$100.*

3300 Advanced Anatomy and Physiology II

Prerequisite: BIO 3100. Function of organ systems. Physiology of the muscular, endocrine, cardiovascular, respiratory, digestive, nervous, lymphatic, reproductive, and urinary systems. *Lecture, 3 hours. Credit: 3 semester hours.*

3301L Advanced Anatomy and Physiology Laboratory

Prerequisite: BIO 3100. Advanced principles of human anatomy and physiology in a laboratory setting. *Laboratory, 3 hours. Credit: 1 semester hour.*

3320 Genetics

Prerequisite: BIO 3000, 3001L. Corequisite: BIO 3321L, 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, \$100.*

3360 Foundations of Physical Chemistry for Life Sciences

Prerequisite: CHE 1220; MTH 1220 or 1740; PHY 1620 or 1940. Review of thermodynamics, kinetics, quantum mechanics, and spectroscopy for students in the life sciences. *Credit: 3 semester hours.*

3370 Ecology

Prerequisite: BIO 1000 or consent of instructor. Corequisite: BIO 3371L. Ecological principles concerning animals and plants, with emphasis on group phenomena, especially the dynamics and evolution of ecosystems, communities and populations. *Field trips required. Lecture, 2 hours. Laboratory, 4 hours. Credit: 4 semester hours. Laboratory fee, \$100.*

3390 Biochemistry

Prerequisite: BIO 3000 or HON 1080 and CHE 2230 or CHE 2630 or HON 2630. Corequisite: BIO 3391L. 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, \$100.*

3450 Biological Inorganic Chemistry

Prerequisite: CHE 2240 or 2640. Applications of inorganic chemistry to biological systems with a focus on bonding, structure, and reactivity. *Lecture, 3 hours. Credit: 3 semester hours.*

3460 Concepts of Immunology

Prerequisite: BIO 3000, 3001L. Corequisite: BIO 3461L. 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, \$100.*

3470 Molecular and Cell Biology

Prerequisite: BIO 3000, 3001L, 3390.

Corequisite: BIO 3471L. 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, \$100.*

3480 Scientific Literacy/Integrity

Prerequisite: BIO 1000, 3000, and one BIO elective course. Critical evaluation of diverse forms of biology-related literature and interpretation of biological literature relevant to specific research questions. *Lecture, 3 hours. Credit: 3 semester hours.*

3490 Dental Preceptorship

Prerequisite: BIO 3000. Clinical observation in general dental practice and selected dental specialties. *Credit: 1 semester hour.*

3830 Bioinformatics

Prerequisite: BIO 3000, and 3320 or 3470, or consent of instructor. *Corequisite:* BIO 3831L. Integration of genetics, molecular biology and computational biology into the modern informational perspective of biology. *Lecture, 3 hours. Laboratory, 3 hours. Credit: 4 semester hours. Laboratory fee, \$100.*

4420 Inquiry-based Genetics

Prerequisite: BIO 2000, 2001L, and consent of instructor. *Corequisite:* BIO 4421L. Genetics with Project Lab in Development, emphasizing team-based participation in a developmental genetics research project. *Lecture, 2 hours. Laboratory, 4 hours. Credit: 4 semester hours. Laboratory fee, \$100.*

4951; 4952 Field 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 field research project. *Registration in both 4951 and 4952 simultaneously requires explicit approval of the UEPC.* Qualified juniors and seniors majoring in biology may undertake directed field research. *Field research work, 4 hours. Credit: 2 semester hours per semester.*

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, \$100.*

4955; 4956 Internship in Biology

Prerequisite: 3.0 GPA, approval of the Undergraduate Educational Policy Committee and acceptance from an off-campus mentor for an internship project. *Registration for both BIO 4955 and BIO 4956 simultaneously requires explicit approval of the UEPC.* Directed off-campus research project in biology for qualified juniors and seniors majoring in biology. *Off-campus research work, 4 hours. Credit: 2 semester hours per semester.*

Business (BUS)**Minor Sequence**

18 semester hours including: ACC 2320; ECO 1301, 1302; FIN 2310 or RMI 2301; MGT 2301; MKT 2301.

Note: Business 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**

46 to 51 semester hours including: CHE 1310, 1313L, 1320, 1323L, 2630, 2633L, 2640, 2643L, 3000; 3210 or 3280; 3220 or 3270; 3250, 3300, 3320, 3340, 3440.

Option I: B.S. in Chemistry (46-47 credits)

One of the following: CHE 3260, 3290, 3330, 3360, 3390, 3420, 3431, 3450, 4351, 4361, 4903, or a 100 level graduate CHE course.

Option II: B.S. in Chemistry with American Chemical Society Certification (50-51 credits)

CHE 3390 and one of the following: CHE 3260, 3290, 3330, 3360, 3420, 3431, 3450, 4351, 4361, 4903, or a 100-level graduate CHE course.

Option III: B.S. in Chemistry with a Concentration in Biochemistry (51 credits)

CHE 3390 and BIO 3470. CHE 3290, 3330, 3360, 3450 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 the following 41–42 semester hours: CHE 1310, 1313L, 1320, 1323L, 2630, 2633L, 2640, 2643L, 3000; 3210 or 3280; 3220 or 3270; 3250, 3320, 3440, 101, 111. 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, 121, and 141 during their senior year.

Students completing the baccalaureate will receive ACS Certification.

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

22–26 semester hours including: two courses in general chemistry; two courses of organic chemistry and six semester hours of CHE electives above 2640 that are a minimum of 3 credits each.

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 1111L and 1112R are corequisites for CHE 1110. CHE 1121L and 1122R are corequisites for CHE 1120. CHE 1131L and 1132R 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, 1.5 hours. Laboratory, 3.3 hours. Credit: 4 semester hours per semester. Laboratory fee, \$100 per semester.*

1210 General Chemistry I

Prerequisite: CHE 1100 (or another prior CHE course). *Corequisite:* CHE 1211L, 1212R. Principles and concepts of chemistry with emphasis placed on stoichiometry, atomic and molecular structure and inorganic chemical reactions. In the laboratory, emphasis is placed on quantitative measurements. *Lecture, 3 hours. Recitation, 1.5 hours. Laboratory, 3.3 hours. Credit: 5 semester hours. Laboratory fee, \$100.*

1220 General Chemistry II

Prerequisite: CHE 1110, or 1210, or 1310.
Corequisite: CHE 1221L, 1222R. Introductory physical chemistry focusing on equilibrium, kinetics, electro-chemistry and properties of matter, including acids and bases. *Lecture, 3 hours. Recitation, 1.5 hours. Laboratory, 3.3 hours. Credit: 5 semester hours. Laboratory fee, \$100.*

1310 Advanced General Chemistry I

Prerequisite: At least one year of chemistry and one year of pre-calculus in high school.
Corequisite: CHE 1313L, MTH 1730. Principles and concepts of chemistry emphasizing quantum mechanics, thermodynamics, physical properties of solids, liquids and gases, equilibria, acids and bases. *Lecture, 3 hours. Credit: 3 semester hours.*

1313L Advanced General Chemistry I: Laboratory and Recitation

Prerequisite: At least one year of chemistry in high school. *Corequisite:* CHE 1310, MTH 1730. 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, 1.5 hours. Laboratory, 3.3 hours. Credit: 2 semester hours. Laboratory fee, \$100.*

1320 Advanced General Chemistry II

Prerequisite: CHE 1310 or 1110 with consent of instructor or 1210 with consent of instructor
Corequisite: CHE 1323L. 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. Credit: 3 semester hours.*

1323L Advanced General Chemistry II: Laboratory and Recitation

Corequisite: CHE 1320. A continuation of 1313L in which the primary focus is on the procedures and techniques used in the modern chemical laboratory and recitation for the lecture, CHE 1320. *Recitation, 1.5 hours. Laboratory, 3.3 hours. Credit: 2 semester hours. Laboratory fee, \$100.*

2230; 2240 Organic Chemistry I; II

Prerequisite: CHE 1220 or 1320. CHE 2230 or CHE 2630 is a prerequisite for CHE 2240.
Corequisite: CHE 2231L is a corequisite for CHE 2230. CHE 2241L 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, 4 hours. Credit: 5 semester hours per semester. Laboratory fee, \$100 per semester.*

2630; 2640 Advanced Organic Chemistry I; II

Prerequisite: CHE 1320 or 1220 with consent of instructor. CHE 2630 or 2230 with consent of instructor is a prerequisite for CHE 2640.
Corequisite: CHE 2633L is a corequisite for CHE 2630. CHE 2643L is a corequisite for CHE 2640. A comprehensive treatment of the structure, bonding, and reactivity of organic molecules integrating an aggressive approach towards problem solving and pattern recognition. *Credit: 3 semester hours per semester.*

2633L; 2643L Advanced Organic Chemistry Laboratory and Recitation I; II

Prerequisite: CHE 2633L is a prerequisite for CHE 2643L. *Corequisite:* CHE 2630 is a corequisite for CHE 2633L. CHE 2640 is a corequisite for CHE 2643L. Students learn techniques and mindset of a safe, practicing organic chemist. The experiments are data-driven investigations wherein students demonstrate observational, problem-solving, and critical thinking skills. *Recitation, 1.5 hours. Laboratory, 4 hours. Credit: 2 semester hours per semester. Laboratory fee, \$100 per semester.*

3000 Chemistry Seminar

Prerequisite: CHE 2230 or 2630. Examination of ethical reasoning, responsible conduct in research, safety in the chemical laboratory, and the dissemination of scientific results. *Credit: 1 semester hour.*

3210 Microscopic Physical Chemistry

Prerequisite: CHE 2240 or 2640, and MTH 1740, and PHY 1620 or 1940. Introduction to quantum mechanics: application to atomic structure, theories of chemical bonding, atomic and molecular spectroscopy, and computational quantum chemistry. Introduction to statistical thermodynamics. *Credit: 3 semester hours.*

3220 Macroscopic Physical Chemistry

Prerequisite: CHE 2240 or 2640, and 3210 or consent of instructor, and MTH 1740, and PHY 1620 or 1940. *Corequisite:* CHE 3320. Thermodynamics of pure substances, mixtures and chemical reactions, with emphasis on processes under non-standard state conditions; chemical kinetics; connecting micro- and macroscopic perspectives via statistical mechanics. *Credit: 3 semester hours.*

3250 Quantitative Analysis

Prerequisite: CHE 1220 or 1320. *Corequisite:* CHE 3251L. 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, \$100.*

3260 Advanced Organic Chemistry III

Prerequisite: CHE 2240 or 2640. Advanced topics in organic chemistry covering various aspects of structure and bonding theory, synthesis, mechanisms, and spectroscopy. *Credit: 3 semester hours.*

3270 Physical Chemistry I

Prerequisite: CHE 2240 or 2640, and MTH 1220 or 1740, and PHY 1940. Kinetic theory of gases, thermodynamics of pure substances, mixtures and chemical reactions, chemical kinetics. Particular emphasis will be placed on processes under non-standard state conditions. *Credit: 3 semester hours.*

3280 Physical Chemistry II

Prerequisite: CHE 3270, MTH 1740.
Corequisite: CHE 3320. Introduction to quantum mechanics and approximate methods, introduction to atomic and molecular spectroscopy and introduction to statistical thermodynamics. *Credit: 3 semester hours.*

3290 Supramolecular Chemistry

Prerequisite: CHE 2240 or CHE 2640. Organomolecular interactions; non-covalent forces, synthetic systems/analytical techniques for probing same. Includes materials science, biomimetic chemistry, nanoscience. Assessed by mandatory research presentations. *Credit: 3 semester hours.*

3300 Instrumental Methods of Chemical Analysis

Prerequisite: CHE 3250, and 3220 or 3280.
Corequisite: CHE 3301L. 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, \$100.*

3320 Experimental Physical Chemistry

Corequisite: CHE 3321L, and 3220 or 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, \$100.*

3330 Bioorganic Chemistry

Prerequisite: CHE 2240 or 2640. 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 3220 or 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.*

3360 Physical Chemistry for Life Sciences

Prerequisite: CHE 1220 or 1320; MTH 1740; PHY 1940. Review of thermodynamics, kinetics, quantum mechanics, and spectroscopy for students in the life sciences. *Credit:* 3 semester hours.

3390 Biochemistry

Prerequisite: BIO 3000, 3001L, and CHE 2230 or 2630, or consent of instructor. *Corequisite:* CHE 3391L. 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, \$100.*

3420 Environmental Chemistry

Prerequisite: CHE 1220 or 1320. 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. *Laboratory fee, \$100.*

3440 Introduction to Inorganic Synthesis

Prerequisite: CHE 3340. *Corequisite:* CHE 3441L. An introduction to the techniques and methods utilized in the synthesis and characterization of inorganic compounds. *Laboratory, 5 hours. Credit:* 2 semester hours. *Laboratory fee, \$100.*

3450 Biological Inorganic Chemistry

Prerequisite: CHE 2240 or 2640. Applications of inorganic chemistry to biological systems with a focus on bonding, structure, and reactivity. *Lecture, 3 hours. Credit:* 3 semester hours.

4351; 4361 Research Participation I; II

Prerequisite: CHE 2240 or 2640 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 per semester. *Laboratory fee, \$100 per semester.*

4903 Chemistry Internship

Prerequisite: CHE 2240 or 2640, and consent of instructor. This course provides credit for a well-designed program of 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.

Communication Sciences and Disorders (CSD)

Major Sequence**Speech-Language Pathology and Audiology**

39 semester hours including: CSD 1710, 1720, 1730, 1740, 2710, 2750, 2760, 2770, 2810, 4990, and nine semester hours chosen from: CSD 1750, 1820, 2775, 2780, 4810, 4953, LIN 1810, RCT 1155.

For certification, the American Speech-Language-Hearing Association requires 3 credits in a biological science specific to humans, 3 credits in Physics or Chemistry, 3 credits in statistics, and 6 credits in a social or behavioral science. Speech-Language Pathology and Audiology majors are urged to work with departmental advisors to meet these requirements at the undergraduate level.

Minor Sequence**Speech-Language Pathology and Audiology**

21 semester hours including: CSD 1710, 1720, 1730, 1740, 2750, 2760, and 2770.

Speech-Language Pathology and Audiology Course Offerings (CSD)

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

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: CSD 1710 or permission of the department. Phonological, morphological, syntactic, semantic, pragmatic and cognitive aspects of language acquisition in the normally developing 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: CSD 1710, 1720, 1740, 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.

1820 Neurological Bases of Normal Human Communication and Balance

Prerequisite: CSD 1710, 1720, 1730, 1740, or permission of the department. Basic anatomy and physiology of the human neurological system as it pertains to normal communication processes and balance. *Credit:* 3 semester hours.

2710 Writing for Research and Clinical Practice

Prerequisite: CSD 1710, 1720, 1730, 1740, or permission of the department. Writing research, clinical and professional documents in communication sciences and disorders. *Credit:* 3 semester hours.

2750 Introduction to Audiology

Prerequisite: CSD 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. *Credit:* 3 semester hours.

2760 Language Disorders across the Lifespan

Prerequisite: CSD 1710, 1720, 1730, 1740, or permission of the department. Disorders of language in pediatric, adolescent, and geriatric populations. *Supervised interaction with clinical populations required. Credit:* 3 semester hours.

2770 Speech Disorders across the Lifespan

Prerequisite: CSD 1710, 1720, 1730, 1740, or permission of the department. Disorders of speech in pediatric, adolescent, and geriatric populations. *Supervised interaction with clinical populations required. Credit:* 3 semester hours.

2775 Language-Based Learning Disabilities

Prerequisite: CSD 1730 or permission of the department. Language development, disorders, and 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.

2780 Aural Rehabilitation for the Hearing Impaired Child

Prerequisite: CSD 1740, 2750, 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: CSD 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. *Not applicable to the speech pathology audiology major.* *Credit:* 3 semester hours.

2810 Observation Skills in Speech-Language Pathology and Audiology

Prerequisite: CSD 2760 or 2770, or permission of the department. Objective identification and written evaluation of assessment and treatment processes in speech-language pathology and audiology; factors affecting service delivery; social implications of the therapeutic process. *Credit:* 3 semester hours.

4810 Clinical Practicum in Audiology

Prerequisite: CSD 1740, 2750, 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.

4953 Independent Study

Study of specific topics in communication sciences and disorders under the guidance of a faculty member. Students must select a mentor for this study. *Credit:* 3 semester hours.

4990 Seminar

Prerequisite: CSD 2760, 2770, or permission of the department. Contemporary issues in communication sciences and disorders. Research tools for advanced study and professional growth; research design, tests and measurements, statistical analysis and computer applications. *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

33 semester hours including: ECO 1301, 1302, 3303, 3341, 3343; DS 2333, 2334; and four elective courses in the major, selected in consultation with a departmental advisor, from ECO 2309, 3306, 3307, 3313, 3323, 3344, 3346, 3348, 4340, 4345, 4350, 4399, 4400; FIN 2310, 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.*

Students must complete MTH 1310, 1320, and CIS 1332 or DS 2333; and be in junior standing (having 56+ credits) to enroll in junior or senior level business courses (courses numbered 3000 or above). 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

15 semester hours including: ECO 1301, 1302, and nine semester hours in ECO selected in consultation with a departmental advisor. *ECO 2327 is not applicable to the minor sequence.*

Students must complete MTH 1310, 1320, and CIS 1332 or DS 2333; and be in junior or senior level business courses (courses numbered 3000 or above).

Note: ECO courses are taught by The Peter J. Tobin College of Business faculty.

English (ENG)

Major Sequence

36 semester hours including: ENG 1100C, 2200, 2300, nine semester hours chosen from ENG courses prior to 1900: ENG 3000-3399, 3520; or ENG 2060 or 2210 with the approval of the instructor and chairperson, a senior capstone seminar, and fifteen semester hours in ENG electives offered by the department.

B.A./M.A.

Students accepted in the five-year B.A./M.A. program matriculate for 24 undergraduate credits, including the three required English courses (ENG 1100C, 2200, and 2300) and senior capstone seminar. Students matriculate for a total of 12 graduate credits as undergraduates, counting the graduate credits toward their undergraduate major either as pre-1900 requirements, senior capstone seminar, or as electives.

Students matriculate in two graduate courses in the junior year and two graduate courses in the senior year and continue with

graduate level courses in the fifth year of study. Eligibility for this program requires a 3.0 overall index with a 3.3 index in English. For additional requirements for the master's degree, consult the St. John's University Graduate Bulletin.

Minor Sequences

English

15 semester hours including: ENG 1100C and twelve semester hours in any ENG courses offered by the department.

Writing

15 semester hours including: ENG 1100C and twelve semester hours of writing courses offered by the department.

English Course Offerings (ENG)

1040 Writing for Business

An exploration of common professional forms of writing and communication, including critical responses to professional and business-oriented readings. *Credit:* 3 semester hours.

2060 Introduction to American Literature

A study of various texts, authors, genres, and themes in American literature and culture. May vary according to instructor interest or specialization. *May count toward ENG pre-1900 requirement depending on approval of the instructor and chairperson.* *Credit:* 3 semester hours.

2100 Introduction to 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 Introduction to British Literature

A study of various texts, authors, genres, and themes in British literature and culture. May vary according to instructor interest or specialization. *May count toward ENG pre-1900 requirement depending on approval of the instructor and chairperson.* *Credit:* 3 semester hours.

Required Courses for the English Major

1100C Literature in a Global Context

Introduction to the study of literary texts, both as an end in itself and as a bridge to other ways of knowing and being in the world. Readings will come from a variety of time periods, literary traditions, regions, and genres. *Credit:* 3 semester hours.

2200 Reading and Writing for the English Major

A foundation course introducing majors to disciplinary practices in English. Restricted to English majors and minors. Strongly suggested as first course in the major, not including the university core course, ENG 1100C. *Credit: 3 semester hours.*

2300 Topics in Theory

An introduction to critical theory, with emphasis on contemporary literary theory and its applications in the world. Topics may reflect instructor specialization or interests. *Credit: 3 semester hours.*

English electives prior to 1900**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

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 major seventeenth-century writers, including such figures as John Donne, Mary Wroth, Hester Pulter, and Andrew Marvell. The course considers multiple genres of both poetry and prose. *Credit: 3 semester hours.*

3170 Milton

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

3200 Eighteenth-Century English Literature

A survey of authors, genres, media, and geographies, focused through one or more of the pressing questions that structured the varied textual culture of 1660-1820. *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 novel genre and the literary, cultural, and global contexts of its emergence during the 18th century. *Credit: 3 semester hours.*

3230 Nineteenth-Century Novel

A study of the various genres of Romantic and Victorian-era prose fiction, including realism, Gothic, bildungsroman, condition of England, and sensation novels; crime, detective, and science fiction. *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

Victorian poetry, drama, non-fiction, and novel; the culture of the Victorian age (1832-1901) and its enormous social changes. *Credit: 3 semester hours.*

3260 Women Writers of the Nineteenth Century

Nineteenth-century literature written by women—novels, poetry, social criticism, drama, and other forms of non-fiction prose—in their political and cultural contexts. *Credit: 3 semester hours.*

3270 Eighteenth-Century British Poetry

Study of the diverse poetic traditions and literary cultures of Britain in the long eighteenth century. *Credit: 3 semester hours.*

3280 Early English Feminisms

Literary, philosophical, theological, and abolitionist texts on the status of women in Britain and its colonies from the late 17th through early 19th centuries. *Credit: 3 semester hours.*

3290 Special Topics in 18th- and 19th-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). *Credit: 3 semester hours.*

3300 Colonial American Literature

A study of the literary movements of the colonial period in America, including the oral traditions of Native America. *Credit: 3 semester hours.*

3310 Antebellum American Literature

A study of pre-Civil War American literature, typically focusing on social reform and the anti-slavery movement. *Credit: 3 semester hours.*

3320 Nineteenth-Century American Fiction

A study of the novelists and fiction writers of the 19th century in America according to instructor interest. *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

Literature written by women—novels, poetry, social criticism, drama, and other forms of non-fiction prose—in their political and cultural contexts. *Credit: 3 semester hours.*

3360 Early National American Literature

A study of U.S. literature between the Revolution and the presidency of Andrew Jackson. *Credit: 3 semester hours.*

3370 International Context for Early American Literature

Early American literature in context with other literatures from around the globe. *Credit: 3 semester hours.*

3375 Environmental Literature

Examines early American writing about nature and the environment. *Credit: 3 semester hours.*

3390 Special Topics in American Literature to 1900

A study of special themes and topics in literature and culture, from the colonial period to 1900. *Credit: 3 semester hours.*

3520 Modern World Literature

Writers in translation from the broad expanse of world literature, focusing on the period from 1776 to 1900, with emphasis on revolutions, empire, and literary realism.
Credit: 3 semester hours.

Additional English electives

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

Post-World War II poetry and its schools, theoretical underpinnings, modernist and alternative roots, and cultural and historical relevance. *Credit: 3 semester hours.*

3470 20th-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.

3480 The Harlem Renaissance

A study of the literature of the Harlem Renaissance: the African American cultural movement from World War I to the 1930s.
Credit: 3 semester hours.

3490 Special Topics in 20th-Century Literature and Culture

A study of special themes and topics. May reflect instructor specialization or interests.
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.
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.

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.

3550 Short Fiction

A study of the major developments of the genre. *Credit: 3 semester hours.*

3560 American Ethnic Literatures

A study of race, literature, and culture in works by African American, Asian American, Native American, and Chicana writers like Toni Morrison, Maxine Hong Kingston, Leslie Marmon Silko, Gloria Anzaldúa, Chang-rae Lee, and others. *Credit: 3 semester hours.*

3570 Women and Literature

An exploration of the categories "women" and "literature," encompassing texts, performances, and media by authors and artists who think critically about gender and its relationship to creativity, identity, and politics.
Credit: 3 semester hours.

3580 Postcolonial Literature

Introduction to poetry, fiction, and creative nonfiction from the formerly colonized nations of Africa, South Asia, and the Caribbean, with an emphasis on how writers deploy voice, symbolism, form, and plot in order to recognize and move past the legacy of colonialism. *Credit: 3 semester hours.*

3590 Literature and the Other Arts

Selected world, English, and/or American literary texts evaluated in relation to works of music, painting, sculpture, dance, theater, writings in the sciences and humanities, fashion, film, performance, and/or other arts.
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.*

3605 Ancient Comedy in Translation

Selected plays of the ancient Greek and Roman playwrights: Menander, Aristophanes, Plautus, and Terence. *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.*

3620 Classical Mythology in Translation

A study through literary texts of mythology from Greek and Roman culture. *No knowledge of Greek or Latin required. Credit: 3 semester hours.*

3630 Utopian Fiction

This course introduces intermediate and advanced undergraduates to a wide range of utopian fiction. *Credit: 3 semester hours.*

3640 Vernacular Literature

Fiction, poetry, and drama written in various forms of non-standard English.
Credit: 3 semester hours.

3645 Comparative Migration Literature

Fiction, poetry, drama, and literary nonfiction depicting the process of relocating permanently to a new country. *Credit: 3 semester hours.*

3650 Caribbean Literature

Study of the fiction, poetry, essays, and drama of the Caribbean and the Caribbean Diaspora.
Credit: 3 semester hours.

3660 South Asian Literature

Study of the fiction, poetry, essays and drama of South Asia and the South Asian Diaspora.
Credit: 3 semester hours.

3670 Ethnic Autobiography

A critical study of American "ethnic" autobiography as a genre constructing notions of race, ethnicity, nation, and self. *Credit: 3 semester hours.*

3680 Reading the Body: Race, Gender, Text

Poststructuralist theories of gender, race, the text and the body. *Credit: 3 semester hours.*

3690 Special Topics in Literary and Cultural Studies

A study of special themes and topics in cultural studies. Topics may reflect instructor specialization or interests. *Credit: 3 semester hours.*

3800 Working-Class Theory, Literature, and Culture

An exploration of literary and cultural representations of class. *Credit: 3 semester hours.*

3810 The History of Silent Film

An advanced introduction to the history of silent film, studying major historical innovations, schools, and styles of filmmaking.
Credit: 3 semester hours.

3820 The History of Sound Film to 1975

An introduction to the major national schools and styles of filmmaking from the period of sound's innovation to the New Hollywood of the mid-70s. *Credit: 3 semester hours.*

3830 Topics in Film Authors

A study of films of a single director, and the intersection of those films with the director's historical, cultural, and industrial conditions.
Credit: 3 semester hours.

3880 English Studies in the Digital Age

This course investigates how digital technologies impact the way we read and write; it also introduces students to debates and practices in the digital humanities. *Credit: 3 semester hours.*

3890 Topics in Film Genre

A study of the formal similarities, stylistic and narrative patterns, and mythic values of a particular generic category of film production. *Credit: 3 semester hours.*

Writing, Literacies, and Cultural Rhetorics**3475 African American Women's Rhetorics**

This course examines multiple persuasive discourses—written, oral, and visual—of black women in the United States. *Credit: 3 semester hours.*

3700 The Teaching of Writing

An introduction to composition theory and pedagogy with an emphasis on the multiple contexts in which literacies and writing are used, practiced, learned, and taught. *Credit: 3 semester hours.*

3710 Creative Writing Across Genres

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

3720 Creative Nonfiction Workshop

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

3730 Poetry Workshop: Expression and Experiment

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

3740 Fiction Writing Workshop

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

3750 Literary Journalism

Students will practice fieldwork and report on social, political, and cultural topics that matter to them. *Credit: 3 semester hours.*

3760 Writing as Social Action

Students engage in creative work that draws direct influence from social action readings. *Credit: 3 semester hours.*

3770 Writing the Short Story

This creative writing class focuses on the short story, its history, and its possibilities. *Credit: 3 semester hours.*

3780 Poetry Workshop: Expansive Practices

This creative writing course focuses on generative, extended poetry practices in a language art studio setting. *Credit: 3 semester hours.*

3790 Professional Writing

A class exploring the literacies, writing practices, and texts of professionals in varied contexts and settings. *Credit: 3 semester hours.*

3795 Writing about Science

This class is for writers interested in science and scientists interested in writing. Students will study, produce, and critique writing by and about the sciences. *Credit: 3 semester hours.*

3900 Modern Rhetorical Theory

Examination of the development of rhetorical theory from the beginning of the twentieth century to the present including discussion of important thinkers, movements, and issues. *Credit: 3 semester hours.*

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

Restricted registration. Internship opportunities (8 hours per week) for English majors to gain professional experiences and to develop professional networks. Students may explore an array of fields and industries that may set the foundation for future careers. *Credit: 3 semester hours.*

4906 Internship in English and Related Fields

Restricted registration. Internship opportunities (16 hours per week) for English majors to gain professional experiences and to develop professional networks. Students may explore an array of fields and industries that may set the foundation for future careers. *Credit: 6 semester hours.*

4953 Independent Study

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

4991 Capstone Seminar in British Literature and Culture

Prerequisite: ENG 2200, 2300. This course invites students bring together the methodologies, skills, and knowledge they developed in the major. Topics may reflect instructor specialization or interests. *Students may take more than one seminar. Students are strongly advised to take the capstone seminar in their final year of study.* *Credit: 3 semester hours.*

4992 Capstone Seminar in American Literature and Culture

Prerequisite: ENG 2200, 2300. This course invites students bring together the methodologies, skills, and knowledge they developed in the major. Topics may reflect instructor specialization or interests. *Students may take more than one seminar. Students are strongly advised to take the capstone seminar in their final year of study.* *Credit: 3 semester hours.*

4993 Capstone Seminar in Special Authors, Methods, or Texts

Prerequisite: ENG 2200, 2300. This course invites students bring together the methodologies, skills, and knowledge they developed in the major. Topics may reflect instructor specialization or interests. *Students may take more than one seminar. Students are strongly advised to take the capstone seminar in their final year of study.* *Credit: 3 semester hours.*

4994 Capstone Seminar in Themes/Genres

Prerequisite: ENG 2200, 2300. This course invites students bring together the methodologies, skills, and knowledge they developed in the major. Topics may reflect instructor specialization or interests. *Students may take more than one seminar. Students are strongly advised to take the capstone seminar in their final year of study.* *Credit: 3 semester hours.*

Environmental Studies Program (ESP)**Major Sequences****B.A. in Environmental Sustainability and Decision-Making**

45–46 semester hours including: ANT 1120; ESP 1010, 1020, 2410, 4990; ESP 2500 or GOV 2500; GEO 2001; GOV 1030, 2160; one course in applied statistics; and fifteen semester hours of major elective courses in consultation with the Director of the Environmental Studies Program.

B.S. in Environmental Science

50 semester hours including: BIO 1000, 1001L, 2000, 2001L, 3000, 30001L; CHE 1210, 1220; ESP 1010, 4990; GEO 2001; and nineteen semester hours of major elective courses in consultation with the Director of the Environmental Studies Program.

The B.S. degree in Environmental Science requires the completion of MTH 1210, 1220 or 1730, 1740.

Minor Sequences**Environmental Studies**

15 semester hours including: ESP 1010, GEO 2001, and nine semester hours of environmental electives in consultation with the Director of the Environmental Studies Program.

Environmental Education

15 semester hours including: ESP 1010, ESP 2150, GEO 2001, and six semester hours of environmental electives in consultation with the Director of the Environmental Studies Program.

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.*

1020 Methods of Environmental Analysis-Practicum

Prerequisite: ESP 1010. An analytical study of the current methods of environmental analysis focusing on interdisciplinary ecological, geophysical and technological measures. *Campus-based field work required. 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.*

2020 Geographic Information Systems: An Introduction to GIS and Remote Sensing

An interdisciplinary exploration of GIS with exposure to various aspects of analysis including: data structure, spatial analysis, data management, data visualization, data retrieval, and GPS. *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.*

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.*

2210 Science Technology Engineering Mathematics Seminar I

Prerequisite: One BIO, CHE, MTH, PHY, or SCI 1000C course. An interdisciplinary seminar to address a major global issue and develop a solution to one aspect of the issue. *Permission of the ESP Director is required. Credit: 1 semester hour.*

2220 Science Technology Engineering Mathematics Seminar II

Prerequisite: ESP 2210. An interdisciplinary seminar to address a major global issue and develop a solution to one aspect of the issue. *Permission of the ESP Director is required. Credit: 2 semester hours.*

2310 Botany

Prerequisite: BIO 1000, 1001L. Corequisite: BIO 2311L. The biology of plants: their morphology, evolution, and classification. *Field trips required. Lecture, 2 hours. Laboratory, 4 hours. Credit: 4 semester hours. Laboratory fee, \$100.*

2410 Principles and Practices of Sustainable Development

An analysis of the theoretical underpinnings and practical applications of sustainable development on a global, local and individual level; sustainable practices in areas such as building, waste management, industrial production and energy are included. *Campus-based field work required. Credit: 3 semester hours.*

2500 Environmental Management, Regulation and Decision-Making

Prerequisite: GOV 1030. Analysis of the major federal environmental statutes, their historical development and amendments, and their practical application in today's regulated community. *Credit: 3 semester hours.*

2510 Aquatic Ecology

Corequisite: ESP 2511L. 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, \$100.*

3320 Resource Management

Corequisite: ESP 3321L. An analysis of the goals, principles, methods and ecological measures currently employed by natural resource managers. *Lab and field work required. Field trips required. Lecture, 2 hours. Laboratory, 4 hours. Credit: 4 semester hours. Laboratory fee, \$100.*

3370 Ecology

Prerequisite: BIO 1000 or consent of instructor. Corequisite: BIO 3371L. Ecological principles concerning animals and plants, with emphasis on group phenomena, especially the dynamics and evolution of ecosystems, communities, and populations. *Field trips required. Lecture, 2 hours. Laboratory, 4 hours. Credit: 4 semester hours. Laboratory fee, \$100.*

3420 Environmental Chemistry

Prerequisite: CHE 1220 or 1320. 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.*

3480 Environmental Geology

Prerequisite: Sophomore standing or permission of the instructor. An analysis of the relationships between human beings and the Earth. Geological hazards, evolutionary Earth changes and the power of modern civilization to alter the Earth. *Credit: 3 semester hours.*

3481L Environmental Geology Laboratory

Classroom based activities, outdoor field trips and participation in a class project dealing with current environmental geology issues. *ESP 3481L may be taken separately from ESP 3480. Laboratory, 3 hours. Credit: 1 semester hour. Laboratory fee, \$100.*

4000 Special Topics in Environmental Studies

Special topics will engage students in emerging environmental topics, such as climate change, environmental justice, environmental geography, waste management, and case studies in environmental justice. *Credit: 3 semester hour.*

4903; 4906 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 to 6 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 Director of the Environmental Studies program 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.*

Global Development and Sustainability (GDS)

Major Sequence

36 semester hours including: GDS 1000, 2000, 4980, 4990; ANT/RCT 1155; ECO 3346; GOV 3850; one language course at the 3000 level, and twelve semester hours chosen from the Social Science Track or the Science Track. Students must complete ECO 1302 to be eligible to enroll in ECO 3346.

Social Science Track: ANT 1040, 1100, 2400; COM 3103; ECO 1320; ESP 1020; GOV 2520, 2680; HIS 3110, 3160; PSY 2010, 2180; SOC 2020.

Science Track: ANT/ESP 1120; ANT 2100; BIO 1070; CHE 1210; ESP 2020; ESP/GOV 2170; ESP 2410; GEO 1001, 2001, 2002; PHY 1080, 1090, 1120, 1520.

Minor Sequence

18 semester hours including: GDS 1000, 2000; ANT/RCT 1155; ECO 3346; GOV 3850, and one language course at the 3000 level. Students must complete ECO 1302 to be eligible to enroll in ECO 3346.

Global Development and Sustainability Course Offerings (GDS)

1000 Theories in Global and Sustainable Development

Foundation in theories of global and sustainable development. The course includes evaluation of development theories in relation to contemporary best practices in a variety of global contexts. *Credit: 3 semester hours.*

2000 Health, Food, and the Environment

Critically evaluates through the lens of social justice and the synergistic relationship between health, food, water, and environmental systems in the context of sustainable global development. *Credit: 3 semester hours.*

4980 Internship

Fieldwork where students have the opportunity to work in development and sustainability organizations at home or abroad under the supervision and counseling of a faculty member. *Credit: 3 semester hours.*

4990 Capstone Seminar in Global and Sustainable Development

Integrates the academic and experiential learning of each student. Presentation of capstone projects with a conceptual framework. *Credit: 3 semester hours.*

Government and Politics (GOV)

Major Sequences

Government and Politics: 36 semester hours including: GOV 1030, 1050; one elective in each of the following areas:

International Relations: GOV 1610, 2170, 2640, 2810, 3620, 3630, 3670.

Comparative Government: GOV 1700, 2650, 2660, 2690, 2730, 2750, 3310, 3680, 3710, 3720, 3820, 3850, 3851;

Political Theory: GOV 1250, 1260, 1270, 1280.

Senior Seminar. GOV 4991, 4992, 4993, 4994, 4995.

In addition, majors must complete eighteen semester 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, 2170, 2640, 2810, 3340, 3620, 3630, 3670;

Comparative Government: GOV 1700, 2650, 2660, 2690, 2730, 2750, 3680, 3710, 3720, 3850, 3851;

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

In addition, majors must complete 15 semester hours chosen 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.

Undergraduate students accepted into the accelerated B.A./M.A. program in Government and Politics will complete a total of 36 credits of combined Government and Politics undergraduate and graduate courses.

Eligibility requires an overall 3.0 cumulative index and 3.5 index in major courses. In their fifth year, students pursue full-time graduate work completing the balance of credits necessary to meet the 33-credit M.A. degree requirement. Please see the department chair for further details.

Other Combined Degree Programs

The Department of Government and Politics offers a number of undergraduate/graduate combined degrees with The Lesley H. and William L. Collins College of Professional Studies: B.S./M.A. programs in Communication Arts, Criminal Justice, Health Care Administration, Journalism, and Paralegal Studies. All students interested in

the combined degree program must fulfill the eligibility requirements stated above for the B.A./M.A.

Minor Sequences

Government and Politics

- A. For all students, except Public Administration and Public Service majors: Any 18 semester hours in GOV.
- B. For Public Administration and Public Service majors: Any 18 semester hours in GOV not utilized for the major.
- C. 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 chosen from: GOV 2400, 2470, 2480, 2500, 2510, 2950, 2955, 3450, 3460, 3590;
 - One course in International Relations chosen from: GOV 1610, 2640, 2810, 3340, 3620, 3630, 3670;
 - One course in Comparative Government chosen from: GOV 1700, 2650, 2660, 2690, 2730, 2750, 3680, 3710, 3720, 3820;
 - One course in Political Theory chosen from: GOV 1250, 1260, 1270, 1280;
 - 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.

Law and Government

- A. For all students except Government and Politics majors: 21 semester hours including: GOV 1010, 1030 and any five of the following: GOV 2400, 2490, 2500, 2580, 2600, 3450, 3460, 3570, 3620; HIS 3725; PHI 3420, 3650; RCT 2020, 3180; SOC 2360.
- B. For Government and Politics majors: See department chairperson for advisement.

Public Administration and Public Service

- A. For all students except Government and Politics majors: 15 semester hours including: GOV 1030, 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, 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.*

1050 Research Methods for Government and Politics

Prerequisite: GOV 1030. As a foundation for Government and Politics majors, this course provides introductions to research methods and scholarly writing. *All GOV majors must take 1050 as one of their first four courses in the major. 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 key works from the Renaissance to the late 19th century, Burke, Machiavelli, Hobbes, Locke, Rousseau, Wollstonecraft, Marx. *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.*

1350 Politics and Religion: The American Experience

Explores the complex relationship between politics and religion in liberal democracy, with a focus on the United States. *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 study of the methodology of comparative political analysis and research. Topics include political institutions; ethnicity and ethnic conflict; regimes and regime change; parties and party systems; and democracy and democratization. *Credit: 3 semester hours.*

2000 Introduction to International Conflict Resolution and Reconciliation

An introduction to theories of conflict analysis, management, and resolution, with emphasis on the application of these theories to address political violence. *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

Analysis of politics and policies with regard to global environmental issues within a larger discussion of development—sustainable and unsustainable. *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: Consent of 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

Examines the organization of the House and Senate; the evolution of the relationship of Congress with the executive; party politics in the legislative process; contemporary legislative problems. *Credit: 3 semester hours.*

2430 The American Presidency

Explores 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 Congress; the president's relationship with Congress. *Credit: 3 semester hours.*

2470 State and Local Government and Administration

Prerequisite: GOV 1030. Socioeconomic and intergovernmental influences on state politics; party and interest-group politics; legislatures, governors, and state agencies; budgeting and economic development issues. *Credit: 3 semester hours.*

2480 Municipal Government and Administration

Prerequisite: GOV 1030. Socioeconomic influences on urban politics; machine, reform and post-reform political organization; systems of urban governance; budgeting and land-use issues. *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

An examination of the political dimensions of environmental issues and development issues in selected countries and regions around the world. *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.*

2614 Politics in France

French political transformations from 1789 to 1958; establishment of the Fifth Republic; and France's relationship to politics in other Francophone countries. *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

Introduction to contemporary Western European Political systems, institutions of those systems, and six major countries: Great Britain, France, Germany, Italy, Netherlands, and Spain. *Credit: 3 semester hours.*

2660 Government and Politics of Eastern Europe

Introduction to contemporary political systems in Central/Eastern Europe, institutions of those systems, and their transition from socialist to market economies, and transformation to democratic institutions. *Credit: 3 semester hours.*

2670 European Union Politics

Creation of the European Union and the politics of European integration; examines European Union activities and its role in policy development, common market and currency, and foreign affairs. *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

Russian transformation to post-communist political and economic system; democratic and non-democratic systems of the post-Soviet Republics in Central Asia, Ukraine, Belarus and the Baltic States. *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.*

2860 Transnational Gender Politics

Theories and practices of gender politics, feminism, and anti-feminism at the international and transnational level. *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 postelective 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 Political Image Through Literature

Relationship of politics, literature, and especially film through the topics of domestic electoral politics, Vietnam War, political violence, gender and love, social rebellion. *Credit: 3 semester hours.*

3280 The Politics of Migration

The politics, policy, and patterns of national and transnational migration, especially the causes and the effects on the economy, security, social harmony, assimilation, and integration. *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.*

3310 Comparative Diversity, Identity and Governance

Examines the politics of highly diverse societies, analyzing the quality and level of cultural, ethnic, national, religious and linguistic diversity as variables in effective governance. *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 counterrevolutionary 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.*

3340 Arms Races and Arms Control

This course investigates the origins and implications of arms races in the context of international relations theory and evaluates the successes and failures of arms control initiatives throughout history. *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 American Politics

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. *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.*

3640 Nuclear Strategy in a Complex World

Prerequisite: GOV 1610. Role of nuclear weapons in the national security strategy of states and their impact on the international system. *Credit: 3 semester hours.*

3670 International Political Economy

Theoretical and empirical relationships between politics and economics at the international level. Regional economic cooperation, trade issues, international monetary policies and North-South difference. *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.*

3851 Politics of Genocide

Prerequisite: GOV 1010. The political issues surrounding genocide and collective violence. The course will help students to better understand one of the most complex and troubling issues in historical and contemporary political life. *Credit: 3 semester hours.*

3992 Integrating Seminar: Politics of the European Union in Paris, Rome and Salamanca

An integrative and comparative political science framework for examining the European Union's impact on and relations with, France, Italy and Spain. *Distance Learning. Open only to students enrolled in the Discover the World Program. 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 semester 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 semester 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 semester 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 semester 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.*

4990 Reading and Research

Prerequisite: Nine semester hours in GOV and approval of the chair. Open to juniors and seniors only. Guided research and reading on an individual basis. *Credit: 3 semester hours.*

Senior Seminars

Limited to Government majors in their senior year. Juniors 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: 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

At least six credits from among: 1250, 1260, 1270, 2300, 3330. Credit: 3 semester hours.

4995 Seminar in Public Administration

Prerequisite: At least six credits from among: GOV 2400, 2420, 2430, 2470, 2480, 2500, 2580, 2955, 3450, 3460, 3570, 3590. Credit: 3 semester hours.

History (HIS)/Geography (GEO)

Major Sequence

History

36 semester hours including: HIS 1000C, 1010, 2990 (in sophomore year), 4990, six semester hours in U.S. history, six semester hours in European history, six semester hours in non-Western history, and six semester hours in courses offered by the Department.

Social Studies

36 semester hours including: HIS 1000C, 1010, six semester hours in U.S. history, six semester hours in European history, six semester hours in non-Western history and one course each from economics, geography, government, and sociology. *Available on Staten Island Campus only.*

B.A./M.A.

Students admitted to the accelerated B.A./M.A. program in History take as their major sequence for their baccalaureate 36–39 semester hours including HIS 1000C, 1010, 2990, 4990, six semester hours in U.S. history, six semester hours in European history, 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

15 semester hours including: HIS 1000C, 1010, three semester hours in non-Western history, and six semester hours of HIS electives in consultation with the department.

History Course Offerings (HIS)

1000-Level: Surveys

1000C Emergence of a Global Society

A survey of the historical foundations of contemporary societies: global dissemination of scientific, technological, and industrial revolutions; the spread of world religions, democracy, and internationalism; accommodation and resistance to Western hegemony; globalization as a historical force. *Required for all majors and minors. Credit: 3 semester hours.*

1010 Foundations of World History to 1500

A topical approach to forces and events that shaped the modern world, including ancient empires, Western civilization and Christianity, the impact of Islam, African and pre-Columbian civilizations, and the new learning of the Renaissance and Age of Exploration. *Required for all majors and minors. 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. Counts as a history elective but not as part of the U.S. History requirement for the major. *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. Counts as a history elective but not as part of the U.S. History requirement for the major. *Credit: 3 semester hours.*

Required Course for the History Major and Minor

2990 Sophomore Seminar: Introduction to History

Restricted registration. Foundation of historical thought and practice: basic tools of historical analysis and research, overview of the development of historical studies, how to read and write history. *Required of all majors and should be taken in their sophomore year unless extenuating circumstances have been approved by the department chair. Credit: 3 semester hours.*

4990 Seminar

Prerequisite: HIS 2990 except in extenuating circumstance of a senior approved by department chair. 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.*

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.*

2005 After Rome: Later Christendom, Byzantium and Islam to 800

Comparison of the three great medieval societies that arose from the Roman Empire: the Byzantine Empire, the Latin Christian Frankish Kingdom, and the Abbasid Caliphate. *Credit: 3 semester hours.*

2007 Food and History from Ancient to Early Modern Times

The course examines themes in the history of food and drink from early hunting and gathering to the early modern period, including production, procurement, consumption, and cultural representations. *Credit: 3 semester hours.*

2009 Food and History from Early Modern Times to the Present

The course examines themes in the history of food and drink from the early modern period to the present, including production, procurement, consumption and cultural representations. *Credit: 3 semester hours.*

2110 Sports in Modern World History

Global history of modern sport, focusing on its intersections with issues of class, race, gender, business, entertainment, fashion, culture, politics, nationalism, and internationalism. *Credit: 3 semester hours.*

Non-Western Surveys

2300 History of Africa

History of the continent from earliest times to present; pre-history, Mediterranean, Arabic, European, and contemporary re-Africanization; the problem of developing history from both oral tradition and written sources. *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. *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. *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. *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. *Credit: 3 semester hours.*

2313 History of Colonial South Asia

The social, cultural, and economic history of nineteenth and twentieth century colonial South Asia. *Credit: 3 semester hours.*

2314 History of Contemporary South Asia

This course examines the social, cultural, and economic history of South Asia from 1947 to the present day, with a focus on economic development, gender, and popular culture. *Credit: 3 semester hours.*

2315 History of Resistance in South Asia

Cultures, tactics and effects of popular resistance movements in South Asia and shared connections with resistance movements in United States, Asia and Europe. *Credit: 3 semester hours.*

2316 Globalization in the Indian Ocean Rim

History of the Indian Ocean Rim from 7th century CE to the present. *Credit: 3 semester hours.*

2317 Islam and Politics in South Asia: A Historical Perspective

Study of the political, cultural, and social history of South Asian Muslims during the colonial and post-colonial era. *Credit: 3 semester hours.*

2320 History of Modern 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.*

2321 History of Islamic Society

Survey of how the rise of Islam in Arabia affected Arab and Iranian lands from the seventh to thirteenth century A.D. *Credit: 3 semester hours.*

2331 Latin America in the Colonial Period

Pre-Columbian background; European discovery and colonization, plantation life, the role of the Church, and the independence movements. *Credit: 3 semester hours.*

2332 History of Contemporary Latin America

Independence from Spain; economic, cultural, religious and political struggles; the caudillos; the relationship with U.S.; Castro era. *Credit: 3 semester hours.*

2340 History of Ancient Americas

Survey of pre-Columbian societies emphasizing political, cultural, social, technological, and economic accomplishments of the Maya, Aztec, and Inca civilizations. *Credit: 3 semester hours.*

2450 History of the Modern Caribbean

A survey of Caribbean history spanning from the pre-Columbian era to the turn of the twenty-first history. *Credit: 3 semester hours.*

European Surveys

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. *Credit: 3 semester hours.*

2502 Late Medieval Europe

The economic, political, intellectual and religious developments in Europe from the 12th to the 15th centuries. *Credit: 3 semester hours.*

2511 Renaissance and Exploration

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. *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. *Credit: 3 semester hours.*

2520 Enlightenment and Revolution in Europe

Expansion of early modern European empires and state-building; Enlightenment; French Revolution. *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 for 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 Europe in the Age of Revolution, 1789-1815

The collapse of the Old Regime; France, from Revolution to Empire; the European Revolution; Napoleon and the reconstruction of Europe. *3 semester hours.*

2532 Europe in the Age of Industry, 1815-1871

The Restoration era and the Concert of Europe; liberalism and conservatism in conflict; the emergence of nationalism, the revolutions of 1848; the Crimean War; the triumph of nationalism in Italy and Germany. *Credit: 3 semester hours.*

2533 Europe in the Age of Empire, 1871-1914

Institutions, ideologies and developments in the German Empire, the Third French Republic, the Italian Kingdom, and the Habsburg Monarchy; development of the new imperialism and imperial rivalries; the coming of WWI. *Credit: 3 semester hours.*

2540 Twentieth Century Europe in a Global Perspective

Cultural, social, and political interactions between Europe and the wider world as seen through migrations, art, music, film, sport, food, and other historical lenses. *Credit: 3 semester hours.*

2541 Europe: World War I, Hitler and Stalin

WWI and the disintegration of the German, Habsburg, Russian and Ottoman empires; the Russian Revolution; the Paris peace process and the European state system; Italian Fascism; the Great Depression, Nazi Germany, Stalinist Russia, and economic and political instability in the 1930s. *Credit: 3 semester hours.*

2542 Europe from World War II to the Present

WWII; defeat of the Axis and the destruction of European primacy; Cold War and the division of Europe; economic reconstruction; the fall of Communism; growth of the European Community; and issues in contemporary Europe. *Credit: 3 semester hours.*

American Surveys

2334 A History of the Atlantic World, 1492-1888

This course examines political, social, economic and cultural changes resulting from the circulation and confrontation of Europeans, Africans, and Americans around the Atlantic rim. *Credit: 3 semester hours.*

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. *Credit: 3 semester hours.*

2712 U.S.: Democracy, Slavery, and Expansion, 1790-1859

The United States in the early to mid-nineteenth century; demographic and economic transformation from a rural agrarian to an urban industrial nation; immigration, economic modernization, and territorial expansion; slavery and other tensions between North and South. *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.: Money and Machines in the Late Nineteenth Century

Technological, industrial, and organizational changes in the last quarter of the nineteenth century; economic, social, and political impact of these changes; achievements and abuses of capitalism; growth of organized labor and emergence of Populism. *Credit: 3 semester hours.*

2740 U.S.: World War One and the Great Depression

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.*

2760 History of American Workers

A survey of U.S. labor and working-class history from the 1830s through the present. *Credit: 3 semester hours.*

2770 Immigrants and the United States: A History

A historical examination of the political and cultural ramifications of American immigration, with special attention to the legal controversies of the 20th and 21st centuries. *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. *Credit: 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

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 United States–Latin American relationships from the 19th century to the present with emphasis on issues such as regional economic integration, revolutionary movements, obstacles to democracy, immigration and the drug trade. *Credit: 3 semester hours.*

3160 History of Human Rights and Social Justice

A survey of the concept of human rights in the modern world, including political, economic, social, religious and cultural rights. *Credit: 3 semester hours.*

3170 History Through Film

History through the medium of film: how culture and history have been treated through the cinematic medium. *Credit: 3 semester hours.*

3180 America and the Muslim World

A narrative of Muslims in American history: reflections upon Islam; interactions with Muslims, and consumption of Middle Eastern goods. *Credit: 3 semester hours.*

3190 Environmental History

Topics in environmental history; may include animals, climate, energy, ecological change, and the histories of environmental science and activism. *Credit: 3 semester hours.*

Non-Western History: Topics and Countries

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.*

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.*

3303 History of Brazil: 1500 to Present

This course examines Brazil's history from its first contact with Europeans through the eras of the slave trade, abolition, and independence. *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.*

3380 History of Iran

A history of Iran focusing on dynastic formation, political consolidation, cultural production, and religious movements. *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

Development of nationalism in colonial territories. The emergence of nationalist movements; the ideology of African nationalism; Pan-Africanism; African socialism; the struggle for independence. *Credit: 3 semester hours.*

3460 Gender in Islamic History

The course examines gender in Islamic history by focusing on male and female social expectations, marriage and divorce, and participation in public space. *Credit: 3 semester hours.*

European History: Topics and Countries

3501 Diplomatic History of Europe: Vienna to Versailles

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: Versailles to Brexit

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 the British Isles: Celt to Tudors

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 the British Isles: Empire and Industry

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 20th Century

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

3531 History of Modern France

History of France from 1789 through present focusing on France as an alternative model for diversity, democracy, and the assimilation of difference. *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.

Credit: 3 semester hours.

3560 Women in Medieval Europe

Thematic survey of women's experiences in medieval Europe, both noble and peasant, religious and secular, with a particular emphasis on women writers.

Credit: 3 semester hours.

3561 Witches, Wives and Queens: Early Modern European Women

Women and gender in Europe (1500 to 1800); rulership, religion, economic roles, family life, gender norms, witchcraft and early feminism.

Credit: 3 semester hours.

3562 Women and Gender 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.

3565 History of Crime and Punishment in Modern Europe

History of crime and punishment 16th-21st centuries; use of torture and execution, changing legal codes and types of offenses, rise of the prison and criminology. *Credit: 3 semester hours.*

3580 Wars of Empire (Mini-Course)

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: A Cultural and Intellectual History**

Cultural and intellectual themes and traditions from Kievan Russia to post-Soviet present, including Orthodoxy, Mongol rule, autocracy, territorial expansion, religious schism, Westernization, the intelligentsia, Orientalism, and Communism. *Credit: 3 semester hours.*

3651 Muscovite Russia: From the Mongols to the Time of Troubles, 1240-1613

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. *Credit: 3 semester hours.*

3652 Romanov Russia: Reforms, Rebellions, and Revolution, 1613-1917

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. *Credit: 3 semester hours.*

3653 Russia: The Soviet Union

The evolution of the Soviet Union from 1917 to 1991: development of the one-party Communist state, the Great Terror, WWII, de-Stalinization, stagnation and reform, nationalism and the dissolution of the Soviet Union. Post-Soviet trends in former Soviet nations. *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**3375 Asian-American History**

The history of Asians in the United States, including historical relations between Asians and other minorities, U.S. foreign policy in Asia and contemporary issues faced by Asian communities in an increasingly globalized and multi-racial American society.

Credit: 3 semester hours.

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.*

3705 Race Relations in American Foreign Policy

The history of the relationship between American foreign policy and domestic race relations in the nineteenth and twentieth centuries. *Credit: 3 semester hours.*

3711 African-American History to 1900

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

3712 African-American History since 1900

This course studies the social history of African-Americans from 1900 to the present which include political, social, economic, and cultural topics. *Credit: 3 semester hours.*

3715 History of Race and Ethnicity in the United States

The history of race and ethnicity in the United States through the history of American institutions and the interactions among its peoples. *Credit: 3 semester hours.*

3718 American Slavery: History, Fiction, and Film

Slavery in the Americas as experienced by slaves and masters and as depicted in fiction and film. *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, 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.

Credit: 3 semester hours.

3731 Women and Gender in Early America: from Settlement to the Civil War

A survey course which analyzes the socioeconomic, cultural, and political factors that influenced the evolution of American women's history from the period of colonial settlement to the Civil War.

Credit: 3 semester hours.

3732 Women and Gender in Modern America: Civil War to the Present

A survey course which analyzes the socioeconomic, cultural, and political factors that influenced the evolution of American women's history from the Civil War to the present. *Credit: 3 semester hours.*

3735 Women and Social Movements in U.S. History

Women's participation in American social movements, from boycotts of British goods in the 1770s, through the development of feminism two hundred years later. *Credit: 3 semester hours.*

3740 The History of the American City

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 New York City: From Wall Street to Main Street

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.*

3795 Technology and Science in 20th-century America

From the age of inventions to the rise of the Internet, the ways in which science and technology shape, and are shaped by, human action and decisions. *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.*

3810 Oral History & Public History

Prerequisite: HIS 2990. Introduction to the theory and practice of Public and Oral History, and topics include historic preservation, cultural resources management, museum studies, and archival management. *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.*

3990 Historical Research Methods in NYC

An introduction to historical research methodology in New York City. The course will be held at the Manhattan Campus and the New York Public Library: Stephen A. Schwarzman Building. *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 (sixteen hours per week) in selected museums, libraries, historical sites, or other like organizations under coordinated faculty and professional supervision. *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.*

4991 Colloquium in European History

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

4992 Seminar in European History

Restricted registration. 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

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

4995 Colloquium in World History

Reading and discussion of selected topics in World History. *Credit: 3 semester hours.*

4996 Seminar in World History

Research and writing on selected topics in World 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.*

Languages and Literatures (LLT)**Major Sequences****French**

33 semester hours including: FRE 3090, 3100, 3550, 3560, 3870, 3880, and fifteen semester hours in advanced FRE 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 in preparation for FRE 3870, 3880. A French major who, in the judgment of the department, shows a deficiency in speaking French shall be required to take one or both terms of FRE 3110, 3120.

Italian

33 semester hours including: ITA 3090, 3100, 3550, 3560, 3870, 3880, and fifteen semester hours in advanced ITA 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 Italian grammar shall be required to take ITA 3150 in preparation for ITA 3870, 3880. 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

33 semester hours including: SPA 3090, 3100, 3550, 3560, 3870, 3880, and fifteen semester hours in advanced SPA 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.

B.A./M.A.

Spanish

The Department of Languages and Literatures offers an intensive, accelerated combined degree program leading to both the B.A. and M.A. degrees for Spanish 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 semester hours in Spanish are encouraged to apply. The students in the B.A./M.A. program take 39 semester hours distributed as follows: SPA 3090, 3100, 3550, 3560, 3870, 3880, six semester hours selected among other advanced Spanish undergraduate courses, and fifteen semester hours in 100 and 200 level Spanish graduate courses. These 15 credits, taken during the junior and senior years, will count towards the M.A. degree.

Special Note regarding ALL beginning (1010 and 1020) and intermediate (2030 and 2040) language courses

The department requires a standard corequisite of ten mandatory sessions at the Global Language and Culture Center per course per semester. A GLCC fee is required.

Special Note regarding major electives

Major electives are selected in conjunction with departmental advisors. Advanced language courses that are conducted in English are not applicable to the major sequence. Consult with your departmental advisor for elective choices within the major.

Minor Sequences

Ancient Studies

18 semester hours chosen under departmental advisement from courses dealing with Greek and Roman antiquity. No knowledge of Greek or Latin is required.

Arabic

18 semester hours chosen under departmental advisement in the language.

Classics

18 semester hours including: six semester hours of Latin above LAT 1020, six semester hours of Ancient Greek, and six semester hours in related courses chosen under departmental advisement.

Francophone Studies

18 semester hours including: six semester hours in French and twelve semester hours from FRE 3901, 3902, 3905, 3920, 3921, 3923, 3930, LAC 1000C (French Language and Culture).

French

18 semester hours chosen under departmental advisement in the language.

German

18 semester hours chosen under departmental advisement in the language.

Greek Modern

18 semester hours chosen under departmental advisement in the language.

Italian

18 semester hours chosen under departmental advisement in the language.

Italian Studies

18 semester hours including: a maximum of six semester hours in ITA language courses; ART 1250, 1780, 1795; CLS 2600; ENG 1076; HIS 2002, 3540; ITA 3540; SOC 1230, 2410.

Linguistics

18 semester hours including: LIN 1010, 1020, and twelve semester hours of Linguistics courses chosen under departmental advisement.

Russian

18 semester hours chosen under departmental advisement in the language.

Spanish

18 semester hours chosen under departmental advisement in the language.

International Business Concentration for Language Majors

21 semester hours including: ECO 1301, 1302, IB 3341, and twelve semester hours chosen from: ECO 3306; FIN 3318; MGT 3339, 3341, 4310, 4334, 4338; MKT 3317, 4318. No other prerequisites are necessary. Students must first consult with the Language Program Coordinator.

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. Support services/workshops are also available. Intermediate, advanced, and special non-credit writing workshops are offered. The use of the Global Language and Culture Center is an integral part of the program. Advisement, testing, and placement services are available through the ESL office in the Department of Languages and Literatures, St. John Hall, Room 434E.

Global Language and Culture Center

The Global Language and Culture Center, located in St. John Hall 104-106, is an academic support center serving students registered for courses in the Department of Languages and Literatures, the Institute of Asian Studies, the Department of Communication Sciences and Disorders and the Language Connection. It is a resource center where students can come to practice one of the fourteen languages currently offered at St. John's University. Through immersion and interaction, with the help of trained language assistants, they can build on the language skills acquired in the classroom in a convivial and relaxed atmosphere.

The Center offers large seating and study areas equipped with computers, large screen TVs, and reference material. Individual language pods lend privacy to small study groups.

Students can receive individual tutoring to improve their grades, or engage in group activities under the guidance of a language assistant such as grammar, pronunciation and writing workshops, round table conversations in the selected language, or workshops to prepare for an internship abroad in France, Italy, or Spain. Lectures and cultural events are held regularly at the Center. Language placement tests are also administered for students interested in majoring or minoring in a Romance language and advisement is offered for language courses.

Arabic Course Offerings (ARA)

1010 Arabic, Level I

Corequisite: 10 mandatory sessions at the Global Language and Culture Center. This course develops basic communication skills in Arabic. 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 Arabic culture. *Credit: 3 semester hours. GLCC fee, \$50.*

1020 Arabic, Level II

Prerequisite: ARA 1010. Corequisite: 10 mandatory sessions at the Global Language and Culture Center. This course continues to develop basic communication skills in Arabic. 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 Arabic culture. *Credit: 3 semester hours. GLCC fee, \$50.*

2030 Arabic, Level III

Prerequisite: ARA 1020. Corequisite: 10 mandatory sessions at the Global Language and Culture Center. This course reviews the basic skills learned in ARA 1010 and 1020, 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. Credit: 3 semester hours. GLCC fee, \$50.*

2040 Arabic, Level IV

Prerequisite: ARA 2030 or permission of chair. Corequisite: 10 mandatory sessions at the Global Language and Culture Center. This course reviews the basic skills learned in ARA 1010, 1020, and 2030, and continues building oral and written proficiency with more intensive reading and conversation within the context of Arabic culture. *Not open to native speakers except with the permission of the chair. Credit: 3 semester hours. GLCC fee, \$50.*

2050 Arabic, Level V

Prerequisite: ARA 2040 or permission of chair. Readings taken from a wide range of literary texts. *Credit: 3 semester hours.*

3110; 3120 Advanced Arabic Conversation

Prerequisite: ARA 2050 or permission of chair. Drill and practice in conversational Arabic. Topics are selected to meet the requirements of daily life. *Not open to native or fluent speakers. Credit: 3 semester hours per semester.*

Classics (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.*

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.*

1775 Greek Archaeology On-Site

An introduction to the archaeology of ancient Greece through visits to major sites, focusing on Athens and its environs with an emphasis on firsthand experience. *No knowledge of Greek or Latin required. Credit: 3 semester hours.*

1850 The Ancient World in Film

An introduction to ancient history and civilization as portrayed in popular films. *Credit: 3 semester hours.*

1860 Classical Mythology in Film

An introduction to ancient history and civilization as portrayed in popular films. *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 Greek or Latin required. Credit: 3 semester hours.*

3600 Classical Epic in Translation

A survey of Greek and Roman epic with all readings from ancient primary sources. *Credit: 3 semester hours.*

3605 Ancient Comedy

A survey of Greek and Roman comedy with all readings from ancient primary sources. *Credit: 3 semester hours.*

ESL Course Offerings

ESLW 1100 Low Intermediate Level Reading/Writing

Prerequisite: Low intermediate level on-site placement test scores and TOEFL/IELTS scores. Corequisite: ESLW 1100 Workshop. Language instruction in reading and writing, focusing on rhetoric and grammar. Open to select non-native English speakers requiring more intensive instruction. Grading on pass-fail basis only. *Credit: 3 semester hours.*

ESLW 1200 English as a Second Language: Intermediate Level Reading/Writing

Prerequisite: Intermediate level on-site test scores. This course provides language instruction through reading and writing paragraphs and short essays focusing on development, vocabulary and grammatical 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. Corequisite: 10 mandatory sessions at the Global Language and Culture Center. This course provides instruction in listening comprehension and speaking through training

in the sounds of English, intonation patterns and techniques of spontaneous conversation. *Grading on pass-fail basis only. Credit: 3 semester hours. GLCC fee, \$50.*

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, writing essays in a variety of rhetorical formats, readings and vocabulary materials through culturally relevant materials. *Credit: 3 semester hours.*

ESLS 1300 Oral/Aural Communication: Advanced Level Listening/Speaking

Prerequisite: ESLS 1200 or advanced level on-site test scores. Corequisite: 10 mandatory sessions at the Global Language and Culture Center. This course provides instruction in listening comprehension and speaking through training in conversational fluency, presentations and error reduction. *Credit: 3 semester hours. GLCC fee, \$50.*

Non-Credit Workshops

ESLW 0400 Special Writing

Prerequisite: Permission of the coordinator. 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. Credit: 3 semester hours toward full-time student status only.*

French Course Offerings (FRE)

1000 Intensive French I/II

Corequisite: 10 mandatory sessions at the Global Language and Culture Center. This course aims to develop basic communication skills in French. Through a progressive use of four skills, listening, speaking reading, and writing students develop oral and written proficiency at a beginner's level within the context of French culture. *Credit: 6 semester hours. GLCC fee, \$50.*

1010 French, Level I

Corequisite: 10 mandatory sessions at the Global Language and Culture Center. 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 beginner's level within the context of French culture. *Credit: 3 semester hours. GLCC fee, \$50.*

1020 French, Level II

Prerequisite: FRE 1010. Corequisite: 10 mandatory sessions at the Global Language and Culture Center. 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 beginner's level within the context of French culture. *Credit: 3 semester hours. GLCC fee, \$50.*

2000 Intensive French III/IV

Prerequisite: FRE 1000 or 1020. Corequisite: 10 mandatory sessions at the Global Language and Culture Center. This course aims to develop intermediate to advanced communication skills in French. Through a progressive use mainly of listening, and speaking, but also reading and writing, students will develop oral and written proficiency within the context of French and Francophone culture. *Credit: 6 semester hours. GLCC fee, \$50.*

2030 French, Level III

Prerequisite: FRE 1020. Corequisite: 10 mandatory sessions at the Global Language and Culture Center. 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. *Credit: 3 semester hours. GLCC fee, \$50.*

2040 Intermediate French Conversation

Prerequisite: FRE 2030 or permission of chair. Corequisite: 10 mandatory sessions at the Global Language and Culture Center. 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. *Credit: 3 semester hours. GLCC fee, \$50.*

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.*

3090; 3100 Masterpieces of French Literature I; II

Prerequisite: FRE 2040 or 2050, or permission of chair. 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 French Revolution to the 20th century. *Credit: 3 semester hours per semester.*

3110; 3120 Advanced French Conversation

Prerequisite: FRE 2040 or 2050, or permission of chair. 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 per semester.*

3150 Review of French Grammar

Prerequisite: FRE 2040 or 2050, or permission of chair. This course is a review of the fundamentals of French grammar in preparation for more advanced French courses with a focus on reading and writing. *This course may not be taken after the successful completion of 3870 or 3880. Credit: 3 semester hours.*

3260 History of French and Francophone Cinema

Prerequisite: FRE 2040 or 2050, or permission of chair. This course features the study of the development of French cinema from its beginnings in 1895 through the present day. *Credit: 3 semester hours.*

3280 20th-Century French Film Media Culture

Prerequisite: FRE 2040 or 2050, or permission of chair. This course examines a variety of authors, themes, genres and movements in 20th-Century French literature through the reading of texts and visualizing of films and the media. *Credit: 3 semester hours.*

3550; 3560 Civilization of France I; II

Prerequisite: FRE 2040 or 2050, or permission of chair. The history, geography, arts, science, folklore, politics, and customs that have contributed to the shaping of French civilization and culture. Part I covers the history and civilization of France from the origins to 1789. Part II covers French history and civilization from 1789 to the present. *This course is conducted in French. Credit: 3 semester hours per semester.*

3570 Urban Culture in Contemporary France

Prerequisite: FRE 2040 or 2050, or permission of chair. An examination of literature, music, and the visual arts documenting the emergence of what is now called "urban culture" in France. *Credits: 3 semester hours.*

3580 The Cultural Impact of Science and Technology in France

Prerequisite: FRE 2040 or 2050, or permission of chair. Major French scientists, scientific discourses, and their cultural impact through the centuries. *Credit: 3 semester hours.*

3600 Contemporary France

Prerequisite: FRE 2040 or 2050, or permission of chair. This course studies all aspects of contemporary French Society and Culture. *Credit: 3 semester hours.*

3620 Paris in the French Culture

Prerequisite: FRE 2040 or 2050, or permission of chair. 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 19th-Century French Literature and Culture

Prerequisite: FRE 2040 or 2050, or permission of chair. An introduction to the principal poets, prose writers, and dramatists, as well as the culture of the 19th century. *Credit: 3 semester hours.*

3690 20th-Century French Literature and Culture

Prerequisite: FRE 2040 or 2050, or permission of chair. An introduction to the principal poets, prose writers, and dramatists, as well as the culture of the 20th century. *Credit: 3 semester hours.*

3810 Advanced French for Business

Prerequisite: FRE 2040 or 2050, or permission of 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 and Culture

Prerequisite: FRE 2040 or 2050, or permission of chair. An introduction to the major contemporary writers of the French-speaking Antilles and Sub-Saharan Africa. *Credit: 3 semester hours.*

3830 French and Francophone Women Writers

Prerequisite: FRE 2040 or 2050, or permission of chair. A study of the French and francophone women writers from the 12th century to the present. *Conducted in French. Course is an elective for the Women's and Gender Studies minor. Credit: 3 semester hours.*

3840 Survey of Francophone Literature

Prerequisite: FRE 2040 or 2050, or permission of chair. Survey of contemporary Francophone literature, critical, and theoretical texts to examine various cultures outside of France through a literary lens. *Credit: 3 semester hours.*

3860 Human Rights and Globalization in Francophone Africa

Prerequisite: FRE 2040 or 2050, or permission of chair. Selected texts of contemporary Francophone Africa, critical, and theoretical texts to examine global structures and human rights issues through a literary lens. *Credit: 3 semester hours.*

3870; 3880 Advanced French Grammar and Composition I; II

Prerequisite: FRE 2040 or 2050, or permission of chair. 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 per semester.

3900 Art and Skills of Translation

Prerequisite: FRE 3870 or 3880, or permission of chair. 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.

3901 Francophone Literature (ENG)

This course examines the cultures and the literatures of French-speaking countries outside of France, including French Canada, the French Caribbean, French Guiana, Haiti, Mauritius, North Africa and the Middle East, Sub-Saharan Africa and Madagascar, but also Switzerland, and many more. *Course conducted in English and is not applicable to the French major or minor. Credit:* 3 semester hours.

3902 Women Writers in France (ENG)

A study of the rich and diverse literary works of French women writers from the 12th century to the present, the changing sociological and historical context and their common issues and themes that constitute a female tradition. *Course conducted in English and is not applicable to the French major or minor. Course is an elective for the Women's and Gender Studies minor. Credit:* 3 semester hours.

3905 The Cultural Impact of Science and Technology in France (ENG)

Major French scientists, scientific discourses, and their cultural impact through the centuries. *Course conducted in English and is not applicable to the French major or minor. Credit:* 3 semester hours.

3920 Human Rights in Francophone Africa (ENG)

The course examines Francophone African literature in the context of human rights and globalization. The approach is interdisciplinary, giving the students a historical, political, and economic background of French-speaking countries in Africa. *Course conducted in English and is not applicable to the French major or minor. Credit:* 3 semester hours.

3921 History of French Cinema since WWII (ENG)

This course features the study of the development of French cinema from its beginnings in 1895 through the present day. *Course conducted in English and is not applicable to the French major or minor. Credit:* 3 semester hours.

3930 Paris in the French Culture (ENG)

A study of the development of Paris from its founding to the present, its contributions to French culture including urban history, social history, literature, painting, music, and theater. *Course conducted in English and is not applicable to the French major or minor. Credit:* 3 semester hours.

4903 Internship

Prerequisite: 3110 or 3120, or permission of chair. Total immersion experience in a field of interest chosen by the student in New York where the target language is spoken. *Credit:* 3 or 6 semester hours.

4953 Independent Study

Prerequisite: FRE 2040 or 2050, or permission of chair. Guided undergraduate student research arranged on an individual basis. Permission of the chair and the language area coordinator required. *Credit:* 3 semester hours.

4980A International Internship (France)

Prerequisite: FRE 3110 or 3120, or permission of chair. Total immersion experience in the field of interest chosen by the student. *Credit:* 3 or 6 semester hours.

German Course Offerings (GER)**1010 German, Level I**

Corequisite: 10 mandatory sessions at the Global Language and Culture Center. 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. *Credit:* 3 semester hours. *GLCC fee, \$50.*

1020 German, Level II

Prerequisite: GER 1010. *Corequisite:* 10 mandatory sessions at the Global Language and Culture Center. 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. *Credit:* 3 semester hours. *GLCC fee, \$50.*

2030 German, Level III

Prerequisite: GER 1020. *Corequisite:* 10 mandatory sessions at the Global Language and Culture Center. 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. *Credit:* 3 semester hours. *GLCC fee, \$50.*

Ancient Greek Classical Course Offerings (GRA)**1010; 1020 Elementary Ancient Greek I; II**

Prerequisite: GRA 1010 is a prerequisite for GRA 1020. *Corequisite:* 10 mandatory sessions at the Global Language and Culture Center per semester. An introduction to classical Greek (Attic); a study of Greek grammar, acquisition of a basic vocabulary and practice in translation. *Credit:* 3 semester hours. *GLCC fee, \$50 per semester.*

2030 Intermediate Ancient Greek I

Prerequisite: GRA 1020. A review and continuation of the grammatical structures presented at the elementary level with illustrative readings taken from ancient authors. *Credit:* 3 semester hours.

2040 Intermediate Ancient Greek II

Prerequisite: GRA 2030. A continued introduction of the grammatical structures introduced in the elementary and intermediate levels with illustrative readings taken from ancient authors. *Credit:* 3 semester hours.

4953; 4954 Independent Study

Prerequisite: Permission of chair. 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: 10 mandatory sessions at the Global Language and Culture Center. 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. *Credit:* 3 semester hours. *GLCC fee, \$50.*

1020 Modern Greek, Level II

Prerequisite: GRM 1010. *Corequisite:* 10 mandatory sessions at the Global Language and Culture Center. 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. *Credit:* 3 semester hours. *GLCC fee, \$50.*

2030 Modern Greek, Level III

Prerequisite: GRM 1020. *Corequisite:* 10 mandatory sessions at the Global Language and Culture Center. 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. *Credit:* 3 semester hours. *GLCC fee, \$50.*

Hebrew Course Offerings (HBB)

1010 Biblical Hebrew, Level I

An introduction to Hebrew script, basic grammatical concepts, and biblical vocabulary with examples drawn from the Hebrew Scriptures. *Credit: 3 semester hours.*

1020 Biblical Hebrew, Level II

Prerequisite: HBB 1010. A continued introduction to the basic grammatical concepts and vocabulary of biblical Hebrew, with examples drawn from the Hebrew Scriptures. *Credit: 3 semester hours.*

2030 Biblical Hebrew, Level III

Prerequisite: HBB 1020. A continuation of the presentation of grammatical concepts and vocabulary with examples drawn from the Hebrew Scriptures and other texts. *Credit: 3 semester hours.*

2040 Biblical Hebrew, Level IV

Prerequisite: HBB 2030. A continuation of the presentation of grammatical concepts and vocabulary with examples drawn from the Hebrew Scriptures and other texts. *Credit: 3 semester hours.*

Hindi Course Offerings (HIN)

1010 Hindi, Level I

Corequisite: 10 mandatory sessions at the Global Language and Culture Center. This course aims to develop the basic communication skills in Hindi. Through a progressive use of the four skills, listening, speaking reading and writing, students develop oral and written proficiency a beginning level within the context of Hindi culture. *Credit: 3 semester hours. GLCC fee, \$50.*

1020 Hindi, Level II

Prerequisite: HIN 1010. Corequisite: 10 mandatory sessions at the Global Language and Culture Center. This course continues to develop basic communication skills in Hindi. Through a progressive use of listening, speaking, reading and writing students continue to develop oral and written proficiency within the context of Hindi culture. *Credit: 3 semester hours. GLCC fee, \$50.*

Italian Course Offerings (ITA)

1000 Intensive Italian I/II

Corequisite: 10 mandatory sessions at the Global Language and Culture Center. 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. *Credit: 6 semester hours. GLCC fee, \$50.*

1010 Italian, Level I

Corequisite: 10 mandatory sessions at the Global Language and Culture Center. 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. *Credit: 3 semester hours. GLCC fee, \$50.*

1020 Italian, Level II

Prerequisite: ITA 1010 or permission of chair. Corequisite: 10 mandatory sessions at the Global Language and Culture Center. 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. *Credit: 3 semester hours. GLCC fee, \$50.*

2000 Intensive Italian III/IV

Prerequisite: ITA 1000 or 1020. Corequisite: 10 mandatory sessions at the Global Language and Culture Center. The course aims to develop intermediate to advanced communication skills in Italian. Through a progressive use mainly of listening, and speaking, but also reading and writing, students will develop oral and written proficiency within the context of Italian culture. *Credit: 6 semester hours. GLCC fee, \$50.*

2030 Italian, Level III

Prerequisite: ITA 1020. Corequisite: 10 mandatory sessions at the Global Language and Culture Center. 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. *Credit: 3 semester hours. GLCC fee, \$50.*

2040 Intermediate Italian Conversation

Prerequisite: ITA 2030 or permission of chair. Corequisite: 10 mandatory sessions at the Global Language and Culture Center. 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. *Credit: 3 semester hours. GLCC fee, \$50.*

3080 Italian Contemporary Readings

Prerequisite: ITA 2040 or permission of chair. Introduces students to contemporary literary texts in Italian. It is designed to improve students' written and oral proficiency in Italian, and to prepare them for subsequent 3000 level work in Italian language, literature, and culture. *Credit: 3 semester hours.*

3090; 3100 Masterpieces of Italian Literature I; II

Prerequisite: ITA 2040 or 3080, or permission of chair. 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 development of Italian literature from the Age of Enlightenment through the twentieth century. *These two courses may be taken out of sequence. Credit: 3 semester hours per semester.*

3110; 3120 Advanced Italian Conversation

Prerequisite: ITA 2040 or 3080, or permission of chair. 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 hour per semester.*

3150 Review of Italian Grammar

Prerequisite: ITA 2040 or 3080, or permission of chair. This course is a review of the fundamentals of Italian grammar in preparation for more advanced Italian courses with a focus on reading and writing. *This course may not be taken after the successful completion of 3870 or 3880. Credit: 3 semester hours.*

3260 Italian Cinema, from Neo-Realism to the Present

Prerequisite: ITA 2040 or 3080, or permission of chair. 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.*

3500 A Cultural History of the Mafia through Writings and Cinema

Prerequisite: ITA 2040 or 3080, or permission of chair. An in-depth look at the portrayal of the Mafia and its cultural ramifications in literature and film, from its emergence in the Modern World to its Globalization. *Credit: 3 semester hours.*

3520 Italian Culture and the Internet

Prerequisite: ITA 2040 or 3080, or permission of chair. This course provides insight into contemporary Italian society and culture. Students read and analyze authentic materials taken from on-line sources such as newspapers, magazines, literary sources and short stories. *Credit: 3 semester hours.*

3530 Italian Culture through Food

Prerequisite: ITA 2040 or 3080, or permission of chair. The production, preparation, and consumption of food has played a particularly important role in the development of Italian culture. From the excesses of the Romans' "coene," to the elegance of the Renaissance tables, and today's "Slow Food Movement," it is often through food that Italians have asserted and defended their cultural heritage. *Credit: 3 semester hours.*

3550; 3560 Civilization of Italy I; II

Prerequisite: ITA 2040 or 3080, or permission of chair. The history, geography, art, science, music, literature, folklore, politics, habits, and customs that have contributed to the shaping of Italian civilization and culture. *These two courses may be taken out of sequence. Credit: 3 semester hours per semester.*

3590 Italian Dante and His Times

Prerequisite: ITA 2040 or 3080, or permission of chair. The evolution of Italian lyric poetry from the Scuola Siciliana through the Dolce Stil Nuovo, culminating with a study of Petrarca's *Canzoniere*. *Credit: 3 semester hours.*

3600 Contemporary Italy

Prerequisite: ITA 2040 or 3080, or permission of chair. This course studies all aspects of contemporary life in Italy. *Credit: 3 semester hours.*

3610 Modern Italian Novella

Prerequisite: ITA 2040 or 3080, or permission of chair. The development of the modern Italian Novella from the early nineteenth century to contemporary times studied through the works of authors such as, Verga, Pirandello, Buzzati, Landolfi, Moravia, Calvino, and Tabucchi. *Credit: 3 semester hours.*

3660 Eros and Medieval Culture in Boccaccio's Decameron

Prerequisite: ITA 2040 or permission of chair. This course traces the development of the Italian novella, culminating with a study of Boccaccio's *Decameron*. *Credit: 3 semester hours.*

3680 Modern Italian Theatre

Prerequisite: ITA 2040 or 3080, or permission of chair. 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.*

3710 Trends in Italian Opera

Corequisite: MUS 1075. Survey of the Italian opera and analysis of the historical, cultural, and literary trends in Italian opera. *Credit: 3 semester hours.*

3720 Italian Culture through its Music

Prerequisite: ITA 2040 or 3080, or permission of chair. Evolution of Italian culture through music: from the opera to regional folk songs, the canzone napoletana and the birth of musica leggera. *Credit: 3 semester hours.*

3770 Dante and the Search for Social Justice

Prerequisite: ITA 2040 or 3080, or permission of chair. Dante's pursuit of social justice in his works. *Credit: 3 semester hours.*

3790 The Cultural Impact of Science and Technology in Italy

Prerequisite: ITA 2040 or 3080, or permission of chair. An analysis of the major scientific literary figures of the Italian tradition and their global impact. *Credit: 3 semester hours.*

3810 Advanced Italian for Business

Prerequisite: ITA 2040 or 3080, or permission of 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 La Divina Commedia

Prerequisite: ITA 2040 or 3080, or permission of chair. Dante's masterpiece, with particular emphasis on its literary and philosophical significance. *Credit: 3 semester hours.*

3830 Women Writers in Italy

Prerequisite: ITA 2040 or 3080, or permission of chair. The course studies both the changing socio-historical context of Italian women writers and their common issues and themes that constitute a female tradition in Italy. *Credit: 3 semester hours.*

3870; 3880 Italian Advanced Grammar and Composition I; II

Prerequisite: ITA 2040 or 3080, or permission of chair. A study of difficult points of Italian grammar and syntax, intensive composition practice and translation of selected passages into idiomatic Italian. *These two courses may be taken out of sequence. Credit: 3 semester hours per semester.*

3900 Art and Skills of Translation

Prerequisite: ITA 2040 or 3080, or permission of chair. 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.*

3902 Women Writers in Italy (ENG)

The course studies both the changing socio-historical context of Italian women writers and their common issues and themes that constitute a female tradition in Italy. *Course conducted in English and is not applicable to the Italian major or minor. Credit: 3 semester hours.*

3903 Pirandello's Theatre (ENG)

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 and is not applicable to the Italian major or minor. Credit: 3 semester hours.*

3904 Dante and the Search for Social Justice (ENG)

Dante's pursuit of social justice in his works. *Course conducted in English and is not applicable to the Italian major or minor. Credit: 3 semester hours.*

3905 The Cultural Impact of Science and Technology in Italy (ENG)

An analysis of the major scientific literary figures of the Italian tradition and their global impact. *Course conducted in English and is not applicable to the Italian major or minor. Credit: 3 semester hours.*

3910 Italian Culture through Fashion (ENG)

The phenomenon of fashion in all its aspects and the role it plays in shaping the Italian culture. *Course conducted in English and is not applicable to the Italian major or minor. Credit: 3 semester hours.*

3920 Italian Culture through Food (ENG)

Profile of Italian history and culture through the analysis of gastronomic documents and literary texts that span from the ancient Greeks to contemporary times. Special emphasis will be given to the study of the regional cuisines and wines, and their development. *Course conducted in English and is not applicable to the Italian major or minor. Credit: 3 semester hours.*

3921 Southern Italy: A Cultural Journey (ENG)

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. *Course conducted in English and is not applicable to the Italian major or minor. Credit: 3 semester hours.*

3922 Studies in Italian Culture (ENG)

A study of the diversified elements comprising the background of the culture and civilization of Italy. *Course conducted in English and is not part of the sequence for the Italian major or minor. Credit: 3 semester hours.*

3923 The City of Rome (ENG)

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. Course conducted in English and is not applicable to the Italian major or minor. Credit: 3 semester hours.*

3950 The Mafia and its Culture through Writings and Cinema (ENG)

An in-depth look at the portrayal of the Mafia and its cultural ramifications in literature and film, from its emergence in the Modern World to its Globalization. *Course conducted in English and is not applicable to the Italian major or minor. Credit: 3 semester hours.*

4953 Independent Study

Prerequisite: Permission of chair. Guided undergraduate student research arranged on an individual basis. *Permission of the chair and the language area coordinator required. Credit: 3 semester hours.*

4980A International Internship (Italy)

Prerequisite: ITA 3110 or 3120, or permission of chair. Total immersion experience in the field of interest chosen by the student. *Credit: 3 or 6 semester hours.*

Latin Course Offerings (LAT)

1010; 1020 Elementary Latin

Prerequisite: LAT 1010 is a prerequisite for LAT 1020. *Corequisite:* 10 mandatory sessions at the Global Language and Culture Center per semester. 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 per semester. *GLCC fee, \$50 per semester.*

2000 Intensive Intermediate Latin I/II

Prerequisite: LAT 1000 or 1020. Review of elementary grammar and introduction to complex structures in Latin with selections from classical and post-classical texts interpreted within their cultural contexts. *Credit:* 6 semester hours.

2030; 2040 Intermediate Latin

Prerequisite: LAT 1020. *Corequisite:* 10 mandatory sessions at the Global Language and Culture Center per semester. First Semester: Various prose selections (Nepos, Cicero, etc.) Second Semester: Selections from Vergil. *Credit:* 3 semester hours per semester. *GLCC fee, \$50 per semester.*

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 2030 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 per semester.

Languages and Literatures Course Offerings (LLT)

1000C Arabic Language and Culture (ENG)

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 French Language and Culture (ENG)

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 Indian Language and Culture (ENG)

An introduction to the linguistic and cultural diversity of India and the Indian Diaspora from the earliest linguistic and cultural evidence of the Indus valley civilization and Vedic Sanskrit to the development of the modern Indian languages and the language of the gypsies, Indians in the new world, and East Asia. *Credit:* 3 semester hours.

1000C Italian Language and Culture (ENG)

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 Philippines Language and Culture (ENG)

The study of the nature, evolution, and diversity of human languages and their relationship to the development of culture in the Philippines. *Credit:* 3 semester hours.

1000C Spanish Language and Culture (ENG)

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 (ENG)

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.

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.

1220 English Grammar II

Prerequisite: LIN 1210. A descriptive survey of the grammatical structure of the English language. *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.

1810 Introduction to Phonology

An introduction to the study of sound systems found in language and its application to areas such as language acquisition, speech pathology, dialectal variation and historical change. *Credit:* 3 semester hours.

2150 Introduction to Romance Linguistics

Prerequisite: LIN 1010 or permission of chair. A survey of the evolution of the Romance family of languages and the linguistic properties of each of its members. *Credit:* 3 semester hours.

Russian Course Offerings (RUS)

1010 Russian, Level I

Corequisite: 10 mandatory sessions at the Global Language and Culture Center. 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. *Credit:* 3 semester hours. *GLCC fee, \$50.*

1020 Russian Level II

Prerequisite: RUS 1010. *Corequisite:* 10 mandatory sessions at the Global Language and Culture Center. 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. *Credit:* 3 semester hours. *GLCC fee, \$50.*

2030 Russian, Level III

Prerequisite: RUS 1020. *Corequisite:* 10 mandatory sessions at the Global Language and Culture Center. 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. *Credit:* 3 semester hours. *GLCC fee, \$50.*

Spanish Course Offerings (SPA)

1010 Spanish, Level I

Corequisite: 10 mandatory sessions at the Global Language and Culture Center. 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. *Credit:* 3 semester hours. *GLCC fee, \$50.*

1020 Spanish, Level II

Prerequisite: SPA 1010. Corequisite: 10 mandatory sessions at the Global Language and Culture Center. 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. *Credit: 3 semester hours. GLCC fee, \$50.*

2030 Spanish, Level III

Prerequisite: SPA 1020. Corequisite: 10 mandatory sessions at the Global Language and Culture Center. 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. *Credit: 3 semester hours. GLCC fee, \$50.*

2040 Intermediate Spanish Conversation

Prerequisite: SPA 2030 or permission of chair. Corequisite: 10 mandatory sessions at the Global Language and Culture Center. 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. *Credit: 3 semester hours. GLCC fee, \$50.*

2050 Readings in Modern Spanish

Prerequisite: SPA 2030 or 2040, or permission of chair. This course is structured to meet the needs and abilities of non-language majors. *Conducted in Spanish. Credit: 3 semester hours. GLCC fee, \$50.*

3090; 3100 Masterpieces of Hispanic Literature I; II

Prerequisite: SPA 2040 or 2050, or permission of chair. 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 per semester.*

3110; 3120 Advanced Spanish Conversation

Prerequisite: SPA 2040 or 2050, or permission of chair. 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 per semester.*

3350 Spanish for Heritage Speakers

Prerequisite: SPA 2040 or 2050, or permission of chair. Course designed to meet the needs of students who have had little formal training in the language. *Credit: 3 semester hours.*

3360 Review of Spanish Grammar

Prerequisite: SPA 2040 or 2050, or permission of chair. Review of Spanish grammar for more advanced courses. *This course may not be taken after the successful completion of SPA 3870 or 3880. Credit: 3 semester hours.*

3450 Feminist Themes in Spanish Literature

Prerequisite: SPA 2040 or 2050, or permission of chair. Critical reading and analysis of works in which Spanish women articulate culturally imposed limitations and use fiction as a tool for social change. *Credit: 3 semester hours.*

3455 The Mystery Novel in Spain

Prerequisite: SPA 2040 or 2050, or permission of chair. Survey of the contemporary mystery novel in Spain as a reflection of historical and cultural circumstances. *Credit: 3 semester hours.*

3550 Civilization of Spain

Prerequisite: SPA 2040 or 2050, or permission of chair. 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

Prerequisite: SPA 2040 or 2050, or permission of chair. The history, geography, art, science, music, literature, folklore, politics, manners, and customs which have contributed to the molding of Spanish-American civilization and culture. *Credit: 3 semester hours.*

3570 Medieval Spanish Literature

Prerequisite: SPA 2040 or 2050, or permission of chair. A survey of Spanish medieval literature from the Poema de Mio Cid up to La Celestina. *Credit: 3 semester hours.*

3580 Works of Cervantes I

Prerequisite: SPA 2040 or 2050, or permission of chair. An in-depth study of Don Quijote. *Credit: 3 semester hours.*

3590 Works of Cervantes II

Prerequisite: SPA 2040 or 2050, or permission of chair. An in-depth study of the life and works of this author, including some chapters of Don Quijote, stressing the literary, religious, and social ideas of Miguel de Cervantes. *Credit: 3 semester hours.*

3600 Contemporary Spain

Prerequisite: SPA 2040 or 2050, or permission of chair. A study of all aspects of contemporary Spanish life. *Credit: 3 semester hours.*

3610; 3620 Spanish Golden Age Literature I; II

Prerequisite: SPA 2040 or 2050, or permission of chair. A study of the major literary genres and the principal writers and works of the period. *Credit: 3 semester hours per semester.*

3611 The U.S. Latino Immigrant Experience Through Literature and Culture

Prerequisite: SPA 2040 or 2050, or permission of chair. The study of literary and artistic production of Latino immigrants in the U.S. *Credit: 3 semester hours.*

3612 Migration, Expulsion, and Exile in Spanish Culture

Prerequisite: SPA 2040 or 2050, or permission of chair. A study of the effects of migration, expulsion, and exile on Spanish arts and letters. *Credit: 3 semester hours.*

3640 Romanticism and Realism in Spanish Literature

Prerequisite: SPA 2040 or 2050, or permission of chair. Survey of 19th-century Spanish literature in its cultural and historical context. *Credit: 3 semester hours.*

3690 Contemporary Spanish America

Prerequisite: SPA 2040 or 2050, or permission of chair. Study of all aspects of contemporary Spanish American society and culture. *Credit: 3 semester hours.*

3700 The Spanish-American Novel

Prerequisite: SPA 2040 or 2050, or permission of chair. An analysis of the development and significance of the Spanish-American novel with emphasis on contemporary novelists. *Credit: 3 semester hours.*

3710 The Essay in Spanish-American Literature

Prerequisite: SPA 2040 or 2050, or permission of chair. A study of the origin and development of the essay in Spanish-American literature. *Credit: 3 semester hours.*

3730 Spanish American Short Story

Prerequisite: SPA 2040 or 2050, or permission of chair. A study of the development of the short story in Spanish America from the colonial period to the twentieth century. *Credit: 3 semester hours.*

3740 Contemporary Spanish American Poetry

Prerequisite: SPA 2040 or 2050, or permission of chair. The principal developments of the genre in Spanish America with a study of representative authors. *Credit: 3 semester hours.*

3770 Early Twentieth Century Spanish Literature

Prerequisite: SPA 2040 or 2050, or permission of chair. Prominent writers of the Silver Age of Spanish literature. *Credit: 3 semester hours.*

3775 Spanish Short Story

Prerequisite: SPA 2040 or 2050, or permission of chair. A study of the development of the modern short story in Peninsular Spanish literature. *Credit: 3 semester hours.*

3780 Post Civil War Spanish Literature

Prerequisite: SPA 2040 or 2050, or permission of chair. Thematic and stylistic changes in Spanish fiction in the context of the Civil War and its aftermath. *Credit: 3 semester hours.*

3781 Modern Spanish Poetry

Prerequisite: SPA 2040 or 2050, or permission of chair. A study of the trajectory of Spanish poetry from the Romantics to the Novisimos. *Credit: 3 semester hours.*

3840 Contemporary Hispanic Theatre

Prerequisite: SPA 2040 or 2050, or permission of chair. A study of the most representative plays of the contemporary Spanish theatre. *Credit: 3 semester hours.*

3870; 3880 Advanced Spanish Grammar and Composition I; II

Prerequisite: SPA 2040 or permission of chair. Difficult points of Spanish grammar and syntax with translation of selected passages into idiomatic Spanish. *Credit: 3 semester hours per semester.*

3900 Art and Skills of Translation

Prerequisite: SPA 3870 or 3880, or permission of chair. Theoretical and practical aspects of translation. Students are expected to translate a wide range of texts from Spanish to English. *Credit: 3 semester hours.*

3910 Mystery Novel in Spain (ENG)

Survey of the contemporary mystery novel in Spain as a reflection of historical and cultural circumstances. *Course conducted in English and is not applicable to the Spanish major or minor.* *Credit: 3 semester hours.*

3912 The Spanish Short Story (ENG)

The modern short story in Peninsular Spanish literature. *Course conducted in English and is not applicable to the Spanish major or minor.* *Credit: 3 semester hours.*

3914 Contemporary Spain (ENG)

The evolution of Spanish culture from 1898 to the present. *Course conducted in English and is not applicable to the Spanish major or minor.* *Credit: 3 semester hours.*

3915 The U.S. Latino Immigrant Experience through Literature and Culture (ENG)

The study of literary and artistic projection of Latino immigrants in the U.S. *Course conducted in English and is not applicable to the Spanish major or minor.* *Credit: 3 semester hours.*

3916 Migration, Expulsion, and Exile in Spanish Culture (ENG)

A study of the effects of migration, expulsion, and exile on Spanish arts and letters. *Course conducted in English and is not applicable to the Spanish major or minor.* *Credit: 3 semester hours.*

3920 Feminist Themes in Spanish Literature (ENG)

How Spanish women writers of the nineteenth and twentieth centuries articulate culturally imposed limitations and use fiction as a tool for social change. *Course conducted in English and is not applicable to the Spanish major or minor.* *Credit: 3 semester hours.*

4903 Internship

Prerequisite: 3110 or 3120, or permission of chair. Total immersion experience in a field of interest chosen by the student in New York where the target language is spoken. *Credit: 3 or 6 semester hours.*

4953 Independent Study

Prerequisite: SPA 3090 or 3100, or permission of chair. Guided undergraduate student research arranged on an individual basis. *Permission of the chair and the language area coordinator required.* *Credit: 3 semester hours.*

4980A International Internship (Spain)

Prerequisite: SPA 3110 or 3120, or permission of chair. Total immersion experience in the field of interest chosen by the student. *Credit: 3 or 6 semester hours.*

Mathematics (MTH)/ Computer Science (CSC)

Major Sequences

B.A. in Mathematics

39 semester hours including: CSC 1380 or 1390; MTH 1730, 1740, 2700, 2750, 2790, 3770, 3771R, 3780, 3781R, 3840, 4830, 4990 and three semester hours of an upper level MTH course. In addition, MTH majors on the Queens campus must take PHY 1930, 1940. MTH majors on the Staten Island Campus must take PHY 1440, 1450.

B.S. in Mathematics

51 semester hours including: CSC 1380 or 1390; MTH 1730, 1740, 2700, 2750, 2790, 2800, 3770, 3771R, 3780, 3781R, 3810, 3840, 4830, 4990 and nine semester hours of upper level MTH courses. MTH majors on the Queens campus must take PHY 1930, 1940. MTH majors on the Staten Island Campus must take PHY 1440, 1450.

B.S. in Computing and Machine Learning

33-35 semester hours including: CSC 1030, 1400, 1410, 1470, 2450, 2490, 2580, 2590, 4990, and 6-8 semester hours chosen from: MTH 1125, 2750, 2800, 3810 or upper-level CSC courses. In addition, Computing and Machine Learning majors are required to take MTH 1020, 1730, 1740, 2790, and 3380. *Available on Staten Island Campus only.*

B.S. in Computer Science

30 semester hours including: CSC 1400, 1410, 2420, 2450, 2470, 2480, 4990; MTH 1730, 1740, 2540, 3380; PHY 1440, and nine semester hours in upper level CSC courses. *Available on Staten Island Campus only.*

Minor Sequences

Applied Mathematics

21 semester hours including: MTH 1730, 1740, 2750, and nine semester hours chosen from the following: CSC 1380, 1390; MTH 2390, MTH 2790, MTH 3310, MTH 3320, MTH 3330, MTH 3340, MTH 3350, MTH 3360, MTH 3370, MTH 3380, MTH 3810, MTH 3840, MTH 3850, MTH 3860, MTH 3970, MTH 4830. *Note that, credit is only given for CSC 1380 OR 1390 not both.*

Computing

15 semester hours including: CSC 1400, 1410, 1470, 2450, 2490. *Note that, students who had Calculus (MTH 1730 or equivalent) can replace any of the CSC 2450 and CSC 2490 with any of the following: CSC 2510/MTH 3340, CSC 2580/MTH 3310, CSC 2590/MTH 3320.*

Data Science

15-17 semester hours including CSC 1380; a Calculus course (MTH 1220, 1260, 1320, 1730, or equivalent), a Statistics course (ACT 2322; MTH 1020, 1210, 3810; PSY 2030; SOC 2610, or equivalent), and six semester hours chosen from: MTH 1040, MTH 3310, MTH 3320, MTH 3970, CSC 2500/MTH 3330, CSC 2510/MTH 3340, CSC 2520/MTH 3360, CSC 2600/MTH 3350, MTH 4970, MTH 3370/CSC 2620, MTH 4980/CSC 4980.

Machine Learning

15-17 semester hours including: CSC 1030, a Calculus course (MTH 1220, 1260, 1320, 1730, or equivalent), a Statistics course (ACT 2322; MTH 1020, 1210, 3810; PSY 2030; SOC 2610, or equivalent), CSC 2590/MTH 3320, and three semester hours chosen from: CSC 2510/MTH 3340, CSC 2580/MTH 3310, CSC 2600/MTH 3350, CSC 2620/MTH 3370, CSC/MTH 4980.

Mathematics

21 semester hours including: CSC 1380 or 1390 (for students on the Queens campus) or CSC 1400 (for students on the Staten Island Campus); MTH 1730, 1740, 2700, 2750, and 2790.

Computer Science

15 semester hours including: CSC 1400, 1410, and nine semester hours chosen from: CSC 1350, 1470, 2420, 2430, 2440, 2450, 2460, 2470, 2480, 2490, 2500, 2580, 2590, 2640, 2720; MTH 2540. *Available on Staten Island Campus only.*

Information Science

18 semester hours including: CSC 1020; 1350 or 1400; 2490, and nine semester hours chosen from: CSC 1410, 1470, 2450, 2480, 2640. *Available on Staten Island Campus only.*

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.*

1020 Applied Statistics I

Prerequisite: High school algebra. An introduction to general statistical methods for all disciplines. *Credit: 4 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.*

1050 College Algebra and Trigonometry

Corequisite: MTH 1051R. Review of elementary algebra; functions and graphs; sets of linear equations, introduction to exponential and logarithmic functions; trigonometry. *For chemistry, mathematics, and physics majors 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

A review of the real number system, methods of factoring, methods of solving polynomial equations, and an introduction to functions of a single variable. *Course does not satisfy St. John's University Core Curriculum requirements. Not applicable to major or minor sequences. Credit: 3 semester hours.*

1310 Pre-Calculus with Business Applications

Review of algebra; linear, quadratic and other functions with applications to economics and business. *Open to The Peter J. Tobin College of Business and St. John's College of Liberal Arts and Sciences 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 and St. John's College of Liberal Arts and Sciences 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 per semester.*

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 adolescent education majors only. Not applicable to major or minor sequences. Credit: 3 semester hours per semester.*

1600 Sports Analytics

An introduction to elementary probability and statistics, as applied to sports. *Open to St. John's College of Liberal Arts and Sciences students and The Lesley H. and William L. Collins College of Professional Studies students majoring in Sports Management. Not applicable to major or minor sequences. Credit: 3 semester hours.*

1730 University Calculus I

Prerequisite: Satisfactory grades in trigonometry and advanced algebra or MTH 1050. Functions; limits; derivatives; differentiation of algebraic and transcendental functions; antiderivatives; integrals; applications of these notions. *Credit: 4 semester hours.*

1740 University Calculus II

Prerequisite: MTH 1730. Definite Integral and Applications. Techniques of Integration. Sequences and Series. Power Series. Analytic Geometry. *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. *Open to mathematics and actuarial science majors. Credit: 4 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. *Credit: 3 semester hours.*

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.*

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. Vector-valued functions and their derivatives; partial derivatives. Multiple integrals and their applications: Green's Theorem, Stokes' Theorem. *Credit: 4 semester hours.*

2790 Introduction to Linear Algebra

Prerequisite: MTH 1740, 2700. Vectors and vector spaces; linear transformations and matrices; characteristic values and characteristic vectors of linear transformations; similarity of matrices. *Credit: 3 semester hours.*

2800 Introduction to Modern Algebra

Prerequisite: MTH 2700, 2750. Elementary theory of groups, rings, integral domains and fields. *Credit: 3 semester hours.*

3310 Design and Analysis of Algorithms

Prerequisite: MTH 2540 or 2700, or permission of chair. Study of the notion of an algorithm, its running time and complexity; general approaches to algorithm design; efficient algorithms for a variety of problems. *Credit:* 3 semester hours.

3320 Introduction to Machine Learning

Prerequisite: MTH 1740 or permission of chair. Machine learning concepts, techniques, algorithms such as classification, linear regression, and emerging topics such as boosting, SVM, Bayesian networks, reinforcement and deep learning. *Credit:* 3 semester hours.

3330 Data Security and Cryptography

Prerequisite: CSC 1380 or 1390 or 1400, or approval of chair. Basics of and history of cryptography; main ideas, methods and standard approaches to data security and cryptography. Elements of number theory and its applications to cryptography. *Credit:* 3 semester hours.

3340 Foundations of Data Science

Prerequisite: MTH 1220 or 1260 or 1320 or 1730. Dimensionality reduction; singular value decomposition; optimization; sampling; random graphs; random walks; Markov chains; spectral graph theory; clustering. *Credit:* 3 semester hours.

3350 Advanced Machine Learning, Neural Networks, and Deep Learning

Prerequisite: MTH 1740 or approval of chair. *Corequisite:* MTH 3320/2590 or approval of chair. Neural Networks and Deep Learning concepts and techniques; algorithms such as perceptron, Neural Networks (NN), back-propagation, convolution NN, recursive NN, auto encoders, deep reinforcement learning. *Credit:* 3 semester hours.

3360 Quantum Computing and Quantum Information Science

Prerequisite: MTH 1740 or approval of chair. Foundation for understanding what quantum computers do, provides quantum computing experience. *Credit:* 3 semester hours.

3370 Machine Learning for Finance

Prerequisite: MTH 1740 or approval of chair. Neural Networks and Deep Learning concepts and techniques; algorithms such as perceptron, Neural Networks (NN), back-propagation, convolution NN, recursive NN, auto encoders, deep reinforcement learning. *Credit:* 3 semester hours.

3380 Discrete Mathematics

The application of mathematics to discrete rather than continuous models. *Credit:* 3 semester hours.

3770 Advanced Calculus I

Prerequisite: MTH 2700, 2750. *Corequisite:* MTH 3771R. Topology of the real line. Limits, continuity, differentiation of functions of one variable. Integration theory. All from a theoretical point of view. *Credit:* 3 semester hours.

3780 Advanced Calculus II

Prerequisite: MTH 3770. *Corequisite:* MTH 3781R. Limits, continuity, differentiability for functions of several variables. Implicit Function Theorem. Series of functions. All from a theoretical point of view. *Credit:* 3 semester hours.

3810 Mathematical Theory of Probability and Statistics I

Prerequisite: MTH 2750. Introduction to probability; sample spaces, random variables, Probability Distributions. *Credit:* 3 semester hours.

3820 Mathematical Theory of Probability and Statistics II

Prerequisite: MTH 3810. Sampling distributions, parametric estimation and hypothesis testing; correlation and regression; special topics. *Credit:* 3 semester hours.

3840 Ordinary Differential Equations

Prerequisite: MTH 2750. 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 Numerical Analysis I

Prerequisite: MTH 2750. Errors; methods of interpolation, numerical solution of algebraic, transcendental and differential equations. *Credit:* 3 semester hours.

3870 Numerical Analysis II

Prerequisite: MTH 3860. 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 or approval of department. 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 (sixteen 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:* 6 semester hours.

4910 Introduction to Set-Theoretic Topology

Prerequisites: MTH 1740, 2700. Basic topological concepts; continuous mappings; connectedness and compactness; metric spaces. *Credit:* 3 semester hours.

4920 Elementary Number Theory

Prerequisite: MTH 1740, 2700. Theory of Congruences; Diophantine equations; quadratic residues; properties of number theoretic functions. *Credit:* 3 semester hours.

4930 Functions of a Real Variable

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.

4970 Independent Research in Statistics and its Applications

Prerequisite: MTH 1730, 1740, 3810 or equivalent and nine additional semester hours in MTH, or approval of chair. Qualified mathematics majors or minors or data science

minors undertake directed research in a chosen field of applied statistics. *Open only to mathematics majors, mathematics minors, or data science minors with a 3.0 overall GPA. Credit: 1-3 semester hours.*

4980 Independent Research in Machine Learning and Artificial Intelligence

Prerequisite: MTH 1740, 3320 or equivalent, and six semester hours in MTH or CSC, or approval of chair. Qualified Mathematics / Computing majors, Mathematics minors, Data Science minors, interdisciplinary students undertake directed research in a chosen field of Machine Learning and Artificial Intelligence. *Open to students with at least 3.0 overall GPA. Credit: 1-3 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 per semester.*

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.*

1030 Machine Learning for Everyone

Beginners course in Machine Learning, containing an introduction to the Python programming language. *Credit: 3 semester hours.*

1350 Commercial Computing

Prerequisite: MTH 1050 or upper level MTH course or approval of Chair. Applications of programming in business. Python is used to reinforce logical concepts process flow, control structures, proper programming and application development practices, including documentation. *Credit: 3 semester hours.*

1380 Introduction to Computer and Data Science

Programming and algorithmic thinking. Languages include Python, R. Problem sets inspired by biology, chemistry, and neuroscience. For biology, chemistry, and psychology majors only or with permission of the chair. *Credit: 3 semester hours.*

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

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.*

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. 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 database 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 1380 or 1390 or 1400, or permission of chair. Basics of and history of cryptography; main ideas, methods, and standard approaches to data security and cryptography. Elements of number theory and its applications to cryptography. *Credit: 3 semester hours.*

2510 Foundations of Data Science

Prerequisite: MTH 1220 or 1260 or 1320 or 1730. Dimensionality reduction; singular value decomposition; optimization; sampling; random graphs; random walks; Markov chains; spectral graph theory; clustering. *Credit: 3 semester hours.*

2520 Quantum Computing and Quantum Information Science

Prerequisite: MTH 1740 or approval of chair. Foundation for understanding what quantum computers do, provides quantum computing experience. *Credit:* 3 semester hours.

2580 Design and Analysis of Algorithms

Prerequisite: MTH 2540 or MTH 2700, or permission of chair. Study of the notion of an algorithm, its running time and complexity; general approaches to algorithm design; efficient algorithms for a variety of problems. *Credit:* 3 semester hours.

2590 Introduction to Machine Learning

Prerequisite: MTH 1740 or permission of chair. Machine learning concepts, techniques, algorithms such as classification, linear regression, and emerging topics such as boosting, SVM, Bayesian networks, reinforcement and deep learning. *Credit:* 3 semester hours.

2600 Advanced Machine Learning, Neural Networks, and Deep Learning

Prerequisite: MTH 1740 or approval of chair. *Corequisite:* MTH 3320/2590 or approval of chair. Neural Networks and Deep Learning concepts and techniques; algorithms such as perceptron, Neural Networks (NN), back-propagation, convolution NN, recursive NN, auto encoders, deep reinforcement learning. *Credit:* 3 semester hours.

2620 Machine Learning for Finance

Prerequisite: MTH 1740 or approval of chair. Neural Networks and Deep Learning concepts and techniques; algorithms such as perceptron, Neural Networks (NN), back-propagation, convolution NN, recursive NN, auto encoders, deep reinforcement learning. *Credit:* 3 semester hours.

2640 Networking I–TCP/IP

Prerequisite: CSC 1410. 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.

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.

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.

4906 Internship in Computer Science

Restricted registration. Fieldwork (sixteen 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:* 6 semester hours.

4980 Independent Research in Machine Learning and Artificial Intelligence

Prerequisites: MTH 1740, 3320 or equivalent, and six semester hours in MTH or CSC, or approval of chair. Qualified Mathematics / Computing majors, Mathematics minors, Data Science minors, interdisciplinary students undertake directed research in a chosen field of Machine Learning and Artificial Intelligence. *Open to students with at least 3.0 overall GPA.* *Credit:* 1-3 semester hours.

4990 Seminar in Computer Science

Restricted registration. Reading, discussion, and investigation of special topics in computer science. *Credit:* 3 or 4 semester hours.

Philosophy (PHI)

Major Sequence

36 semester hours including: PHI 1000C, 2200C, 3000C, 3400, 4990, nine semester hours from: PHI 3500, 3510, 3520, 3530, and twelve semester hours chosen from any other PHI course offerings except PHI 2220C and PHI 2240C.

Minor Sequences

Philosophy

18 semester hours including: PHI 1000C, 2200C, 3000C, and nine semester hours chosen from any PHI course offerings except PHI 2220C and 2240C.

Philosophy of Science

18 semester hours including: PHI 1000C, 2200C, 3000C, 3800, and six semester hours chosen from: PHI 2320, 3720, 3810, 3820.

Philosophy of Law

21 semester hours including: PHI 1000C, 2200, 3000C, 3400, 3650, and six semester hours chosen from: PHI 3420, 3540, 3660, 3680, 3740; CLS 2600.

Philosophy Course Offerings (PHI)

Core Philosophy Courses

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 Ethics and 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 Ethics and 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.

Major and Elective Philosophy Courses

3320 Science and Religion: A Philosophical Analysis

Prerequisite: PHI 1000C and three semester hours 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.

3330 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.*

3570 Personalism

Prerequisite: PHI 2200C. 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.*

3590 Confucianism and Taoism

Prerequisite: PHI 1000C. This course introduces students to moral and political philosophy in the Confucian and Taoist traditions. The course is divided into two parts. The first will examine key Confucian and Taoist texts in their historical contexts and creative comparison with Western moral and political philosophy. The second is devoted to contemporary literatures that attempt to modernize central Confucian and Taoist teachings in order to produce fresh insights for the modern world. Through this course, students will achieve a substantial understanding of Confucian and Taoist moral and political ideals and how they remain highly relevant to contemporary moral and political issues. *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 2200C. 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 2200C. 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.*

3670 Modernity in Crisis

Prerequisite: PHI 2200C. In a world described as postmodern, a world increasingly marked by violence and irrationality, the traditional philosophical search for meaning and ethical value, and the ideas of truth and rationality have been called into question. This course examines the response to this crisis by recent Continental thought. *Credit: 3 semester hours.*

3680 Philosophical Issues Concerning Religion in the State

Prerequisite: PHI 2200C. This course examines the basic problematic of religion in the a liberal state. To what extent can religious conviction ground political justifications? The course traces the issue in its historical development, and examines its contemporary controversies. The ideal of public reason—the principles and arguments that form the basis of authentic dialogue in a diverse community—will be critically explored. *Credit: 3 semester hours.*

3700 Contemporary Moral Problems

Prerequisite: PHI 2200C. 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.*

3720 Environmental Ethics

Prerequisite: PHI 2200C. 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 2200C. 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 semester hours 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 semester hours 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

Prerequisite: PHI 3000C and three semester hours in the physical/biological sciences. An issues-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, François 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. *Credit: 3 semester hours.*

3920 Philosophy and Film

Prerequisite: PHI 1000C. An exploration of the philosophy of person and the philosophy of God through the medium of film classics. *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. An intense reading, writing, and critical discussion course, based on a central theme in contemporary philosophy, in a seminar format. *This course is for philosophy majors who have completed all other requirements of the major. Offered spring semester only. Credit: 3 semester hours.*

Physics (PHY)

Major Sequences

Physics

51 semester hours including: PHY 1930, 1940, 1950, 1970, 2010, 2150, 2460, 3210, 3240, 3330, 3370, and sixteen semester hours from upper level PHY courses. PHY 1950 is waived for students having a prior calculus course with permission of the chair. PHY 1610, 1620 may be substituted for PHY 1930, 1940 with permission from the department chair. In addition, physics majors are required to take MTH 1730, 1740, 2750, 3840.

Mathematical Physics

23-26 semester hours including: PHY 1930, 1940, 1950, 1970, 2460, 3210, 3310, 3330. 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. In addition, mathematical physics majors are required to take CSC 1390; MTH 1730, 1740, 2750, 2760, and one upper level PHY or MTH course.

Physical Science

37 semester hours including: PHY 1930, 1940, 1950, 1970, and twenty-three semester hours from upper level PHY courses. 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. In addition, physical science majors are required to take MTH 1730, 1740.

Minor Sequence

16 semester hours including: PHY 1610, 1620, or 1930, 1940, and eight semester hours of PHY courses in consultation with the department.

B.S./M.B.A.

The five-year B.S. Physics/M.B.A. and B.S. Mathematical Physics/M.B.A. are offered jointly by St. John's College of Liberal Arts and Sciences and Tobin College of Business at St. John's University.

For the B.S. Physics/M.B.A. program, the required physics courses are: PHY 1930, 1940, 1970, 2460, 3210, 3221, and 3330. In addition, 3220 and 3310 can be taken as elective courses.

For the B.S. Mathematical Physics/M.B.A. program, the required physics courses are PHY 1930, 1940, 1970, 2460, 3210, 3310, and 3330. In addition, 3220 and 3221 can be taken as elective courses.

Determination on student's progression into the program will be made in the junior year, using GMAT scores and GPA criteria commensurate with the requirement for admission to M.B.A. programs.

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 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 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.*

1310 Physics of Sound and Music

The physics of sound and music, including simple harmonic motion, waves and sound, standing waves and overtones, pressure and ideal gas law, room acoustics and musical temperament and pitch. *Credit: 3 semester hours.*

1320 Physics of Light and Color

This course is designed for undergraduate non-science students. It will discuss the properties of light and color, the interaction of light with matter, human eye, the color vision and the formation of visual images. It also covers reflection, refraction, lenses, and applications to photography and lasers and holography. *Credit: 3 semester hours.*

1340 Renewable Energy and Applications

This course is designed for undergraduate science and non-science students. It will provide an introduction to energy systems and renewable energy resources, with a scientific examination of different types of energy, alternate energy sources and their technology and application. The class will also discuss the society's present energy needs and future demands, examine conventional energy sources, and then focus on alternate, renewable energy sources such as solar, biomass (conversions), wind power, geothermal, and hydro. *Credit: 3 semester hours.*

1360 Physics for Radiologic Sciences

Prerequisite: MTH 1050 or equivalent. Introductory physics course topics in Biology, Physiology, and Medicine. Basic physical principles from the perspective of life sciences with applications. *For students majoring in Radiologic Sciences. Credit: 3 semester hours.*

1410 Introduction to General Physics

The course is designed to help students with weak background in physics or those who have no prior physics courses. Topics include: Introduction to algebra, calculus, vectors, and selective topics such as mechanics, waves, optics, heat, electricity, and magnetism. *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: MTH 1730. 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 1611L and PHY 1612R are corequisites for PHY 1610. PHY 1621L and PHY 1622R 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: MTH 1730 or 1950. PHY 1931L and PHY 1932R are corequisites for PHY 1930. PHY 1941L and PHY 1942R 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 1952R. 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 or 1940, and 1972R. 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.*

2010 Advanced Physics Laboratory

Prerequisite: PHY 1970. Several experiments in modern physics to the students, such as Frank Hertz, Millikan Apparatus, Planck's constant, Zeeman Effect, NMR, ESR, and Hall Effect. *Credit: 2 semester hours.*

2110 Engineering Mechanics

Prerequisite: PHY 1620 or 1940. Corequisite: PHY 2111R. 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: MTH 1730, and PHY 1620 or 1940. 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

Prerequisite: MTH 1730, and PHY 1620 or 1940. 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 per semester.

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 Electronics

Prerequisite: PHY 1450, or 1620, or 1940. *Corequisite:* PHY 3241. Introduction to electronic devices including diodes, transistors, amplifiers, filters, oscillators, LEDs and other electronic systems. Principles of electronic circuit design and analysis. *Lecture, 3 hours. Laboratory, 2 hours. Credit:* 4 semester hours. *Laboratory fee, \$25.*

3250 Optics

Prerequisite: MTH 1730 or PHY 1950, and PHY 1620 or 1940. 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 consent of 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 per semester.

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: MTH 1730, PHY 1940. *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.

3370 Statistical Physics

Prerequisite: PHY 1940, PHY 1970. Science of determining the aggregate behavior of systems from their molecular components. Topics include statistical ensembles with applications to gases, radiation, magnetism, and solids. *Credit:* 3 semester hours.

3510 Electrical Systems

Prerequisite: MTH 1740, and PHY 1620 or 1940. 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.

3820 Fluid Mechanics

Prerequisite: MTH 3840 and PHY 2460 or 2110. Fundamentals of fluid statics and dynamics, including: properties and energy relationships of fluids, and flow in closed conduits, and flow measurement. *Credit:* 3 semester hours.

3850 Introduction to Solid State Physics

Prerequisite: MTH 3840, PHY 1940. Properties of static (crystal structure) and dynamic (lattice vibrations) arrangements of atoms, and electronic properties of metals, insulators and semiconductors. *Credit:* 3 semester hours.

3890 Numerical Methods

Prerequisite: MTH 3840, PHY 1940. Numerical techniques to solve physics problems such as roots of linear and nonlinear equations; solution of ordinary differential equations; curve fitting and interpolation. *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.

4100 Undergraduate Research

Prerequisite: MTH 1740, PHY 1940. Students can conduct research under supervision of approved faculty by the department. It is open to all students majoring in physics. *Credit:* 2 to 4 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)

Major Sequence

41 semester hours including: PSY 1000C, 2030, 2030L, 2040, 2040P, 2150, 2990, 3260, 3800. In addition, majors must choose one course from each of the following groups below:

Group 1—Abnormal/Personality/Social Psychology: PSY 2200, 2210, 3320;

Group 2—Developmental Psychology: PSY 2070C, 2080C;

Group 3—Experimental Psychology: PSY 3270, 3280, 3290;

Group 4—Emerging Areas of Psychology: PSY 2220, 2240, 2250, 2260, 2270.

Also, majors must choose six semester hours of PSY elective courses from the department's course offerings (including those not selected from the four groups mentioned above). Students are required to take all courses in the major in the Psychology Department of St. John's College once they declare the major.

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 1000C as their first course. They are encouraged to take PSY 2030 as soon as possible.

Minor Sequence

16 semester hours including: PSY 1000C, 2030/2030L, and nine semester hours chosen from among the PSY courses offered by the department. Students interested in minoring in psychology and who are also interested in applying to graduate school in this discipline should consider taking: PSY 2040/2040P, 2150, 2200, and/or 3800.

Psychology Course Offerings (PSY)

Introductory

1000C 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.*

2990 Sophomore Seminar

Prerequisite: PSY 1000C. Introduction to the psychology major, the subfields of psychology, the methods of discovery, library, and writing skills in the field and understanding career opportunities. *This course should be taken in the sophomore year. Credit: 3 semester hours.*

Research Methods

2030 Statistical Methods for the Social Sciences

Corequisite: PSY 2030L. 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 in the sophomore year. Credit: 4 semester hours.*

2040 Research Methods in Psychology

Prerequisite: PSY 1000C, 2030. Corequisite: PSY 2040P. An overview of the methods and procedures of psychological science. Students learn to read empirical literature, understand key theories about behavior and psychopathology, develop testable hypotheses, and evaluate appropriate methods for testing these hypotheses. The course teaches methods for assessing the role of observational, survey, correlational, experimental, and quasi-experimental approaches to research. There is a strong emphasis on the development of critical thinking and writing skills essential to understanding research and deploying scientific knowledge in a broad range of situations. Practicum work focuses on studies of human behavior and the writing

of 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.*

3260 Introduction to Psychological Measurement

Prerequisite: PSY 1000C, 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.*

2070C 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.*

2080C 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.*

Abnormal, Personality and Social Psychology

2010 Cross-Cultural Psychology

An introduction to understanding human behavior in its socio-cultural context. The course takes a global perspective and views New York City's cultural diversity as an important resource. *Credit: 3 semester hours.*

2200 Abnormal Psychology

Prerequisite: PSY 1000C. An introduction to the features, causes, and treatments of abnormal patterns of behavior or psychological disorders. *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.*

2230 Psychology of the African American Experience

This course explores 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.*

3320 Social Psychology

Prerequisite: PSY 1000C. 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.*

Experimental Psychology

2150 Physiological Psychology

Prerequisite: PSY 1000C. 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

Prerequisite: PSY 1000C. 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 1000C, 2030. 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 Sensation and Perception

Prerequisite: PSY 1000C, 2030. PSY 2150 may be taken prior or in conjunction with PSY 3290. Introduction to the concepts, methods, and findings of classical and modern psychophysics as they relate to providing an understanding of the sensory systems and processing of sensory information. *Credit: 3 semester hours.*

Emerging Areas of Psychology

2220 Child and Adolescent Psychopathology

Developmental, clinical-diagnostic, and experimental approaches to child and adolescent psychopathology will be addressed. The developmental course of each disorder and the role of biological, psychological, and sociocultural factors and how they interact with a child's environment will be addressed. Specifically, the course will examine disorders related to anxiety, stress & trauma, mood, schizophrenia, eating and substance abuse, memory and organic dysfunctions, ADHD, and personality in childhood and adolescence. *Credit: 3 semester hours.*

2240 Psychology of Women

Reviews the relevant psychological theories and empirical research on women and gender throughout the lifespan. The major goals of the course are to understand the biological, cognitive, and psychosocial influences that affect the realities of women's lives in modern society. *Credit: 3 semester hours.*

2250 Forensic Psychology

Prerequisite: PSY 1000C. The relationship between psychology, psychopathology, and mental health issues that interact with our legal system. *Credit: 3 semester hours.*

2260 Positive Psychology

Positive psychology studies how human beings prosper in the face of adversity. It attempts to identify and enhance the human strengths and virtues that make life worth living and allow individuals and communities to thrive. *Credit: 3 semester hours.*

2270 Health Psychology

Health psychology focuses on the behavioral, personality, social, cultural, and lifestyle variables that influence the prevention and treatment of physical health, disease onset, stress/coping and intervention strategies, disparities in seeking and having access to health care, and compliance with medical treatments. *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.*

2180 International Psychology

A basic understanding of the history, current status, and future directions of scientific and professional psychology applied to contemporary global issues. *Credit: 3 semester hours.*

2190 Psychology of Humor

What makes you laugh? Reviews the psychological research behind mirth, humor, and laughter. *Credit: 3 semester hours.*

2280 Introduction to Sport Psychology

Psychological factors affecting sports participation and their role in sports performance. *Credit: 3 semester hours.*

2380 Psychology of Anger, Aggression, Hatred, and Violence

Psychological factors that affect anger, aggression, hate, and violence and the implications for assessment, prevention, and interventions in society and the individual will be explored. *Credit: 3 semester hours.*

3220 Introduction to Clinical Psychology

Prerequisite: PSY 1000C, 2220. An introduction to clinical psychology including history, development of models and their application, assessment and treatment. *Credit: 3 semester hours.*

3330 Industrial and Personnel Psychology

Psychological aspects of individual differences, efficiency, working conditions, accident prevention, human engineering, industrial mental health, and counseling. *Credit: 3 semester hours.*

3410 Autism and Intellectual Disability

Study of concepts, procedures, and research related to autism, intellectual disabilities, and other developmental disabilities from bio-medical, psychological, and educational perspectives. *Credit: 3 semester hours.*

3420 Applied Behavioral Analysis and Positive Support

The study of concepts and procedures related to applied behavior analysis (ABA) and positive behavioral support (PBS). Learn how ABA/PBS is used to change important behaviors. *Credit: 3 semester hours.*

3800 History and Systems of Psychology

Prerequisite: PSY 1000C and at least nine additional semester hours in PSY. 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.*

Independent Study, Research, and Internships

Students can take only one of the internship courses. Students can only take up to six semester hours of PSY 3040, 3041, 4951, 4952, 4953, and 4954.

3040 Experimental Psychology Laboratory

Prerequisite: PSY 2030. Corequisite: PSY 2040 and approval and acceptance from the instructor. Qualified students undertake directed research in a chosen field in psychology with a research team. Students learn to conceptualize problems, design, conduct, and write up a study. *Credit: 3 semester hours.*

3041 Experimental Psychology Laboratory

Prerequisite: PSY 2030, 2040, 3040, and approval and acceptance from the instructor. Qualified students undertake directed research in a chosen field in psychology with a research team. Students learn to conceptualize problems, design, conduct, and write up a study. *Credit: 3 semester hours.*

4903 Internship in Clinical, Counseling, or School Psychology

Prerequisite: At least twelve semester hours 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 exceptional children and adults, homes for the elderly, halfway houses, and crisis intervention centers. *Credit: 3 semester hours.*

4904 Internship in Industrial/Organizational Psychology

Prerequisite: At least twelve semester hours in PSY. Placement in an agency or corporation for eight to ten hours per week of work in psychology related businesses, plus meetings with the instructor. *Credit: 3 semester hours.*

4951 Independent-Guided Study in Psychology I

Prerequisite: PSY major with 3.0 overall GPA PSY 1000C, 2990, and nine additional semester hours in PSY. Prior to registration, the student must prepare a written contract with a department faculty member of the student's choice. This contract shall specify the topic to be studied, the goals of the course, the reading list, the activities to be done, and the final product of the course expected by the faculty member. The department chair must also provide written approval of the agreement before the student can register. Qualified psychology majors undertake directed study on topics of their choice. *Student cannot take this course and PSY 3040, 3041, 4952, 4953, or 4954 in the same semester.*

4952 Independent-Guided Study in Psychology II

Prerequisite: PSY major with 3.0 overall GPA, PSY 1000C, 2990, 4951, and nine additional semester hours in PSY. Prior to registration, the student must prepare a written contract with a department faculty member of the student's choice. This contract shall specify the topic to be studied, the goals of the course, the reading list, the activities to be done, and the final product of the course expected by the faculty member. The department chair must also provide written approval of the agreement before the student can register. Qualified psychology majors undertake directed study on topics of their choice. *Student cannot take this course and PSY 3040, 3041, 4951, 4953, or 4954 in the same semester.*

4953 Independent Research in Psychology I

Prerequisite: PSY major with 3.0 overall GPA, PSY 1000C, 2030, 2040, and nine additional semester hours in PSY. Prior to registration, the student must prepare a written agreement with a department faculty member of the student's choice. This agreement shall specify the research topic to be explored, procedures to be followed, and the final product of the course expected by the faculty member. The department chair must also provide written approval of the agreement before the student can register. Qualified psychology majors undertake directed research in a chosen field of psychology. Student cannot take this course and PSY 3040, 3041, 4951, 4952, or 4954 in the same semester.

4954 Independent Research in Psychology II

Prerequisite: PSY major with 3.0 overall G.P.A., PSY 1000C, 2030, 2040, 4953, and nine additional semester hours in PSY. Prior to registration, the student must prepare a written agreement with a department faculty member of the student's choice. This agreement shall specify the research topic to be explored, procedures to be followed, and the final product of the course expected by the faculty member. The department chair must also provide written approval of the agreement before the student can register. Qualified psychology majors undertake directed research in a chosen field of psychology. Student cannot take this course and PSY 3040, 3041, 4951, 4952, or 4953 in the same semester.

Rhetoric, Communication, and Theatre (RCT)**Major Sequences****Communication Studies**

36 semester hours including: SPE 1000C; RCT 1155, 4000, nine semester hours chosen from: RCT 1015, 2000, 2020, 2300, 3130, 3140, and eighteen semester hours chosen from one of three concentrations: Communication & Culture, Organizational Communication & Leadership, Political Communication & Civic Engagement.

Communication & Culture: RCT 2010, 2015, 2030, 2035, 2080, 2100, 2110, 2120, 2150, 3150, 3190.

Organizational Communication & Leadership: RCT 2025, 2050, 2070, 2170, 2225, 2250, 3140, 3180.

Political Communication & Civic Engagement: RCT 1010, 2030, 2035, 2040, 2060, 2080, 2090, 2100, 2130, 2170, 2200, 3120, 3150, 3160, 3180, 3190.

Minor Sequences**Rhetoric and Public Address**

15 semester hours including: SPE 1000C or HON 1020C; RCT 3130, and nine semester hours from RCT 2000, 2010, 2030, 2035, 2040, 2060, 3120, 3140, 3150, 3160, 3180, and 3190.

Business and Organization Communication

15 semester hours including: SPE 1000C or HON 1020C; RCT 2020, 2025, and six semester hours from RCT 1015, 1155, 2000, 2050, 2070, 4903.

Communication (Queens Campus)

15 semester hours including: SPE 1000C or HON 1020C; RCT 2020, and nine semester hours from RCT 1155, 2000, 2015, 2025, 2070, 2080.

Religious Communication

15 semester hours including: SPE 1000C or HONR 1020C; RCT 1155, 3190, and six semester hours from RCT 2020, 2040, 2060, 3130.

Theatre

18 semester hours including: SPE 1000C or HON 1020C, RCT 1540, 2110, 2540, and six semester hours from RCT 1050, 1520, 1560, 1575, 1580, 1585, 1590.

Musical Theatre

18 semester hours including: MUS 1260, RCT 1510 or 1530, and 1540, three semester hours in Voice (MUS 1620*, MUS 2620), and six semester hours chosen from: MUS 1070, 1230, 1240, RCT 1520, 1580, 1590, 2540.

* MUS 1620 may be repeated twice.

Communication (Staten Island Campus)

15 semester hours including: SPE 1000C or HON 1020C; RCT 1015, 2020, and six semester hours from RCT 1050, 1155, 1510, 1540, 2000, 2015, 2110, 4953.

Rhetoric and Communication Course Offerings (RCT)**1000C Public Speaking for the College Student**

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 Debate Practicum

This course provides hands-on, mind-on, and voice-on practice in the art of debating. *Credit: 3 semester hours.*

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.*

1010 Debate in Global Contexts

Prerequisite: SPE 1000C or HON 1020C. Examines the role of formal debate as a worldwide competitive activity focusing on debate practice and the rules, procedures, and styles of several debate formats. *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.*

2010 Rhetoric of Sports

Examination of the rhetorical aspects of sports as a civic phenomenon, contributing to political discussions of public policy and conceptions of race, class, and gender. *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.*

2030 Rhetoric of Popular Culture

In this course we will study the intersections between popular culture and rhetoric. *Credit: 3 semester hours.*

2035 Public Memory

Students will gain an understanding of public memory construction as a function of language and culture. *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.*

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.*

2070 Strategic Communication

Prerequisite: SPE 1000C or HON 1020C. This course provides practice and instruction in business-specific rhetorical situations. *Credit: 3 semester hours.*

2080 Media and Culture

Studying the relationship between media, communication, and culture; analyzing the operation of communication technologies and critically questioning the media. *Credit: 3 semester hours.*

2090 Great Speeches of New York

History and criticism of significant rhetorical artifacts generated in New York City. Discussion of the significance of the City as a site of public discourse. *Credit: 3 semester hours.*

2100 Transnational Feminist Rhetoric

Examines texts produced by feminist movements around the globe through the lens of rhetorical theory and criticism. *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.*

2120 Race, Communication, and Identity

Race, Communication, and Identity explores how communication creates, maintains, and transforms racial identities within macro and micro contexts and examines race-related social justice issues. *Credit: 3 semester hours.*

2130 Race, Communication, and Surveillance

Explores the role of communication and race in policing as applied to People of Color; examines racial narratives constructed about POC, and their larger communicative impact on race-related social justice issues and policing Black and Brown bodies. *Credit: 3 semester hours.*

2150 Communication in Close Relationships

Introduces students to both classic and cutting edge theory and research dealing with communication in close relationships, including relationship formation, romantic conflict, relationship maintenance, jealousy, romantic termination and other topics in the dark side of communication. *Credit: 3 semester hours.*

2170 Environmental Communication

Explores the role of communication in emerging and established ideologies and practices of environmental communication including climate change, conservation, and sustainability. *Credit: 3 semester hours.*

2200 Political Communication

Examines the performance of politics through communicative practices, including the study of campaign discourse, communication technology, media influence, and political styles in political campaigns. *Credit: 3 semester hours.*

2225 Communicative Leadership Through Conflict Management

Explores the role of communication in emerging and established ideologies in practices of organizational leadership and conflict management. *Credit: 3 semester hours.*

2250 Crisis Communication

Examines the communicative concerns and rhetorical strategies involved in crafting ethical and effective responses—to diverse publics, online and off—before, during, and after crisis. *Credit: 3 semester hours.*

2300 Human Communication Theory and Research Methods

Examines how everyday discursive challenges become research questions, which are explored through theory, data collection, and data analysis. *Credit: 3 semester hours.*

3120 The Free Speech Tradition in the United States

A rhetorical and argumentative investigation into the meaning of the Free Speech Tradition within the United States. *Credit: 3 semester hours.*

3130 Foundations of Rhetorical Theory

Prerequisite: SPE 1000C or HON 1020C. An examination of the principal developments in rhetoric from the Sophists to Augustine. *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.*

3150 Rhetoric of Social Movements

Survey of rhetorical documents associated with American movements, groups, and persons dedicated to social change. *Credit: 3 semester hours.*

3160 Modern Rhetorical Theory

Examination of the development of rhetorical theory in modern history, including modern and postmodern thinkers and communicative issues in modern and postmodern society. *Credit: 3 semester hours.*

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 or HON 1020C. 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 Communication

Restricted registration. Fieldwork (eight hours per week) with practical application in communication or theatre under faculty and professional supervision. *Credit: 3 semester hours.*

4906 Internship in Speech Communication

Restricted registration. Fieldwork (sixteen hours per week) with practical application in communication or theatre under 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.*

4990 Senior Seminar

Survey of contemporary communication research methods from a variety of theoretical perspectives. Recommended for juniors and seniors. *Credit: 3 semester hours.*

Theatre Course Offerings (RCT)

1500 Theatre In Education

Introduction to theatre techniques for educators. Emphasis on staging the play, puppetry, improvisation, storytelling and creative dramatics. *Credit: 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.*

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 or HON 1020C. 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: Consent of instructor. 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: Consent of instructor. Supervised laboratory experience in technical theatre production. Students further skills and knowledge of technical theatre throughout practical application in departmentally approved productions. *1 semester hour requires 45 hours of laboratory work. Repeatable to maximum of 3 credits. Credit: 1 to 3 semester hours per semester.*

1580 Theatre Laboratory: Acting

Prerequisite: Consent of instructor. Supervised laboratory experience in acting. Students further their skills, and knowledge of acting in a departmentally approved production or project. *1 semester hour requires 45 hours of laboratory work. Repeatable to maximum of 3 credits. Credit: 1 to 3 semester hours per semester.*

1585 Theatre Laboratory: Directing

Prerequisite: Consent of instructor. Supervised laboratory experience in directing. Students further their skills and knowledge of directing in a departmentally approved project. *1 semester hour requires 45 hours of laboratory work. Repeatable to maximum of 3 credits. Credit: 1 to 3 semester hours per semester.*

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. *Credit: 3 semester hours. Laboratory fee, \$10.*

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.*

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 1000C, 1170, 2610, 3240, 4270, 4990, and fifteen semester hours in SOC.

Anthropology

30 semester hours including: ANT 1000, 1010, 1020, 4990, SOC 2610, 4270, and 12 semester hours in ANT.

B.A./M.A.

Qualified students admitted to the 5-year B.A./M.A. program in Sociology or the B.A./M.A. program in Sociology and Criminology and Justice are required to complete the B.A. sociology coursework. Students can take a minimum of 12 semester hours of graduate courses by the of senior year which will count both for the M.A. and as elective credits for their undergraduate degree. 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.

Special Note for Double Majors

A student may major in both SOC and ANT. SOC 2610, 4270 may be used to satisfy both major sequences. A double major must complete a total of 60 semester hours in SOC and ANT. A minimum of 12 elective credits in each discipline is required.

Special Note for Sociology Majors

Students majoring in Sociology on the Staten Island campus may have to take upper level required courses in the major on the Queens campus.

Minor Sequences

Sociology

15 semester hours including: SOC 1000C and twelve semester hours in SOC courses offered by the department.

Anthropology

15 semester hours including: ANT 1010 or 1020, and twelve semester hours in ANT.

Social Work

15 semester hours including: SOC 1030, 1090, 4530, and six semester hours in SOC courses offered by the department. Under advisement, HSC courses may apply to the minor. However, all HSC students must take SOC 1030.

Sociology Course Offerings (SOC)

1000C 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.*

1015 Social Inequality, Mobilization and Social Justice

A critical understanding of inequality based on links between class, race and gender, various forms of social mobilization and different perspectives on social justice and advocacy. *Credit: 3 semester hours.*

1025 Gender and Cultures around the World

The study of gender as a historically and culturally created social construct to understand gender structures and practices of inequality across the world. *Credit: 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.*

1035 Science, Technology, and the Human

A survey of critical debates surrounding the relationship between advances and scientific knowledge and technology and contemporary sociological theories of what it means to "be human." *Credit: 3 semester hours.*

1040C Social Change

Examination of the social and cultural movements that are transforming society. Current debates on feminism, postmodernism, postindustrialism, identity politics and technoscience are central to this course. *Credit: 3 semester hours.*

1045 Migration, Labor, and Justice

A critical sociocultural analysis of links between national, regional, and global social inequalities, with an emphasis on social mobility, labor, migration processes, and justice. *Credit: 3 semester hours.*

1055 Sociology of War

Analysis of the economic, political and social causes and consequences of war and its effects on combatants. *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.*

1130 White Collar Crime

Basic analytical concepts in the study of white-collar crime, the major forms of white-collar crime and legal responses to this form of crime. *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 the Family

This course examines the institution of marriage and the family. *Credit: 3 semester hours.*

1160 Social Construction of Deviance

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.*

1190 Sociology 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.*

1200 Correctional Supervision and the Community

Critical trends and issues in the development, philosophy, and praxis of community-based correctional programs as alternatives to incarceration and as a function of community reentry. *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.*

2000 Global Crime

This course introduces students to a theoretical understanding of transnational organized crime (global crime), describes the major forms it takes, and addresses relevant policy issues. *Credit: 3 semester hours.*

2010 The Inside-Out Prison Exchange: Issues of Crime and Justice Behind the Walls

Experientially-based seminar at Rikers Island jail examining function and social consequences of justice policies, particularly mass incarceration; intersection of race, ethnicity, class, and gender. *Credit: 3 semester hours.*

2020 Gender and Development

A sociological study of development with a specific focus on gender, gender-based violence, gendered migration, politics and social movements for gender justice domestically and internationally. *Credit: 3 semester hours.*

2030 Economic Sociology

Sociological analysis of how markets, networks and hierarchies coordinate economic behavior; the economy's relationship to the state, inequality, technology, culture and globalization. *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 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.*

2120 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.*

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.*

2220 Domestic Violence

An examination of the social causes of domestic violence, the impact on victims and approaches to their recovery and institutional responses to the problem. *Credit: 3 semester hours.*

2230 Sociology of Latino/as in the U.S

Impact of migration, immigration policies, politics and social movements on Latino/as, their families, gender, cultural identity, race/ethnic relations and experience in social institutions. *Credit: 3 semester hours.*

2320 Power, Culture, and News Media

This course examines the social processes involved in the production of news; including attention to the political economy of media, textual analysis, and audience studies
Credit: 3 semester hours.

2330 Human Trafficking

This course studies the historical, economic, political, institutional, legal and social characteristics of human trafficking.
Credit: 3 semester hours.

2340 Social Construction of Race in the United States

This course examines the historical and contemporary social processes that have been significant in the development of racial formations in the United States.
Credit: 3 semester hours.

2350 Social Construction of Race in the Americas

Sociological examinations of the significant historical and contemporary social processes germane to the development of racial formations in Latin America and the Caribbean.
Credit: 3 semester hours.

2630 The City and Metropolis

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.*

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 Social Change: Race, Class, and Gender

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.*

2420 Immigration and Inequality in the U.S.

Sociological analysis of immigration focusing on the relationship between birthright, naturalization, immigration laws, citizenship and patterns of racial, ethnic, class and gender inequality. *Credit: 3 semester hours.*

2430 Sociology of Gender and Sexualities

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 and Sexualities Identities 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.*

2630 The City and Metropolis

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.*

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.*

2470 Gender and Sexualities in a Global Context

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.

2680 Critical Debates in the City

This course will undertake an in-depth analysis of selected, contemporary debates and issues facing cities. It will include opportunities for original research by the students.
Credit: 3 semester hours.

3240 Sociological Theory

Prerequisite: SOC 1000C. 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.*

3660 Power, Change, and Conflict

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 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 with a grade of B or better, and consultation with instructor prior to registration. 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.*

1025 Gender and Cultures Around the World

The study of gender as a historically and culturally created social construct to understand gender structures and practices of inequality across the world. *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.*

1035 Science, Technology & the Human

A survey of critical debates surrounding the relationship between advances and scientific knowledge and technology and contemporary sociological theories of what it means to "be human." *Credit: 3 semester hours.*

1040C Culture and Global Change

An examination of the diverse social and cultural movements that have and are currently transforming the world. *Credit: 3 semester hours.*

1045 Migration, Labor and Justice

A critical sociocultural analysis of links between national, regional and global social inequalities, with an emphasis on social mobility, labor, migration processes and justice. *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.*

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, environment, sedentism, urbanism, architecture, art, gender, trade, and warfare in the past. *Credit: 3 semester hours.*

1155 Language and Intercultural Communication

Communications 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 Anthropology of Human Rights

Examines human rights' history and practice in multiple international contexts using anthropology's holistic, comparative lens. Ethnographically investigates the political-moral facets of human rights. *Credit: 3 semester hours.*

2010 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.*

2020 Survey of Linguistics

An introduction to the various fields of interest that comprise the modern study of linguistics. *Credit: 3 semester hours.*

2100 Medical Anthropology

Cross-cultural explorations of human health and disease. Review of methods and theories used in the practice of medical anthropology. Emphasis on global health disparities and social justice. *Credit: 3 semester hours.*

2200 Health, Food and Development

Critically evaluates through the lens of social justice the synergistic relationship between health, food, water, and environmental systems in the context of sustainable global development. *Credit: 3 semester hours.*

2220 Anthropology of Pandemics

Examines contemporary and historical pandemics using medical anthropology's holistic, comparative lens. Ethnographically investigates the global economic and environmental contexts of intensifying pandemic. *Credit: 3 semester hours.*

2300 The Anthropology of Music

Comparison of anthropological approaches to the study of music. Emphasis on theories of musical style in relation to local and global social and cultural processes. *Credit: 3 semester hours.*

2400 Anthropology of Development

Survey of anthropological approaches to development. Focus on competing cultural ideas about living standards and economic progress in relation to globalized development strategies. *Credit: 3 semester hours.*

2445 Caribbean Cultures and Identities

Anthropological introduction to the history and culture of the Caribbean. Emphasis on colonial history and legacy and the cultural diversity of the region. *Credit: 3 semester hours.*

2450 African Cultures

Anthropological overview of the cultures and traditions of Africa. Emphasis on the colonial legacy and cultural diversity of the African continent. *Credit: 3 semester hours.*

2510 Immersive Learning – Cultural Understanding

This class will use immersive role simulations to explore cultural approaches to a wide range temporal and international situations using primary texts. *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.*

3100 Social Determinants of African American Health

Provides an overview of social determinants of health among African Americans, with an emphasis on solution-development and intervention. *Credit: 3 semester hours.*

3110 Looters & Poachers – Protecting Heritage

An interdisciplinary exploration of Legal and Ethical Issues and Challenges facing those who work in Archaeology or Environmental Science. *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.*

Theology and Religious Studies (THE)

Major Sequence

36 semester hours including: THE 1000C, 2110, 2120, 2205; 2210 or 2215; 2300 or 2320; 2501, 2502, 2810, 4990, and six semester hours in the 3000 series.

B.A./M.A.

B.A./M.A. students take a total of 42 credits including 30 semester hours from THE 1000C, 2110, 2120, 2205; 2210 or 2215; 2300 or 2310; 2501, 2502, 2810, and 4990 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 twelve semester hours in graduate courses. Eligibility requires a 3.0 overall index and a 3.5 in theology. For additional program details, consult the St. John's University Graduate Bulletin.

Minor Sequences

Theology and Religious Studies

18 semester hours including: nine semester hours in the core and nine semester hours from any full-semester course offered by the department.

Interfaith Studies

18 semester hours including: nine semester hours in the core and nine semester hours chosen from: THE 2700, 2710, 2810, 2820, 2830, 2840, 2850.

Special Note

Mini-courses are not applicable toward the major, B.A./M.A., or the 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.*

2000 The Catholic Imagination

Prerequisite: THE 1000C. Examines the role of Catholic imagination vis-à-vis culture with particular attention to ways it has been manifested in cultural productions such as art, literature, music, and film. *Credit: 3 semester hours.*

2110 Reading the Old Testament

Prerequisite: THE 1000C. A survey of the Old Testament/Hebrew Bible, with attention to the history and religion of Israel in the context of the ancient Near East. *Credit: 3 semester hours.*

2120 Reading the New Testament

Prerequisite: THE 1000C. A survey of the New Testament, with attention to its historical and literary context, and its theological significance. *Credit: 3 semester hours.*

2200 The Mystery of Triune 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 Christian Worship 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 Introduction to Christian Ethics

Prerequisite: THE 1000C. An overview of Christian ethics, with particular attention to Catholic moral theology, addressing fundamental concepts and selected personal and social ethical issues. *Credit: 3 semester hours.*

2320 Introduction to Catholic Social Teaching

Prerequisite: THE 1000C. An exploration of modern Catholic social teaching through attention to economic, political, and cultural moral issues such as poverty, racism, immigration, and the ecological crisis. *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.*

2501 History of Christian Theology I: Origins Through the Middle Ages

Prerequisite: THE 1000C. Theology and history of the Catholic Church and its relation to other religious and cultural traditions up until 1500 AD. *Credit: 3 semester hours.*

2502 History of Christian Theology II: Reformations to the Present

Prerequisite: THE 1000C. Theology and history of the Catholic Church and its relation to other religious and cultural traditions from 1500 AD to the present. *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 Introduction to World Religions

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.*

3000 Global Catholicism

Prerequisite: THE 1000C. A broad historical and theological perspective on contemporary trends shaping global Catholicism and how the Catholic Church could shape the world in the Third Millennium. *Credit: 3 semester hours.*

3050 The Challenge of Identity, Spirituality, and Living in a Global World

Prerequisite: THE 1000C, and the 2000 series core course. Theological investigation of challenges of identity, spirituality, and living in a global world. Integration of Vincentian values, religious tradition and practices in a global context. *Open to seniors only.* *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 Writings of John

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 Theological Anthropology

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.*

3215 Theology of Mary and the Saints

Prerequisite: THE 1000C. The genesis, historical development and current manifestations of the theology of Mary and the saints and Christian liturgical and devotional practices associated with honoring them. *Credit 3 semester hours.*

3220 Christian Hope and Everlasting Life

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.*

3235 Ministry, Orders, Religious Life

Prerequisite: THE 1000C. Examination of ministry in the life of Jesus as well as manner in which this ministry is manifested in lay and ordained ministry, and the various forms of canonical religious life in the Roman Catholic Church. *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. *Credit: 3 semester hours.*

3245 Liberation Theologies

Prerequisite: THE 1000C. Examines the ways in which marginalized, oppressed, and poor communities reflect on God in light of their experiences as a method of doing theology. *Credit: 3 semester hours.*

3250 Dialogue Among the Churches and 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 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.*

3265 Theology and Film

Prerequisite: THE 1000C. How film functions vis-à-vis theology and religion; film as a theological and religious text as well as film as it embodies religious stories. *Credit: 3 semester hours.*

3270 Theology in Literature

Prerequisite: THE 1000C. Theological interpretations of religious themes, metaphors, and symbols in classic works of imaginative literature, undertaken with the aid of critical literary theory and historical contextualization. *Credit: 3 semester hours.*

3300 Moral Theology of Health Care

Prerequisite: THE 1000C. An exploration of moral decision-making 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. 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 chairperson.* *Credit: 3 semester hours.*

3310 The Theology of Peace

Prerequisite: THE 1000C. An examination of peace and the Christian response to war and violence, in dialogue with other religious perspectives, Judaism, and Islam. *Credit: 3 semester hours.*

3320 God and Religion in the City

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.*

3330 Ecology and Environmental Ethics

Prerequisite: THE 1000C. An examination of theologies of creation and moral responsibility for the environment, drawing on Christian and other religious traditions.

Credit: 3 semester hours.

3350 Ethics, Religion, and Global Development

Prerequisite: THE 1000C. Examines the influence and role of religion in the ethics of global development with an emphasis on sustainable development, human rights, poverty, and economics.

Credit: 3 semester hours.

3360 Justice, Spirituality, and Social Justice

Prerequisite: THE 1000C. Practice-centered ethics course; engagement and experimentation with social theories, spiritual practices, advocacy strategies, and tactics that promote social change. *Credit: 3 semester hours.*

3400 Spirituality of the Educator

Prerequisite: THE 1000C. An introduction for future educators to the spiritual dimensions of the art of teaching focusing on the development of the teacher's personal spirituality as well as the formative role of teachers in the spiritual development of students. *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

Prerequisite: THE 1000C. A 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 Modern World

Prerequisite: THE 1000C. Examines how religion and secularism shaped and was shaped by modern politics, globalization, liberalism and colonialism.

Credit: 3 semester hours.

3550 Theology in the Middle Ages

Prerequisite: THE 1000C. An introduction to the theology and history of the Catholic Church during the Middle Ages (600–1500 A.D.) by means of an interdisciplinary study of theology, philosophy, history and literature using primary and secondary sources.

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 Modern Moral Issues in Judaism

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.

3870 Global Cultures and World Religions: Intersections of the Sacred and the Ordinary

Prerequisite: THE 1000C. Examines how spiritualities, religious practices, and ideas of transcendence are located within different cultures and normative societal activities.

Credit: 3 semester hours.

3910 Faith and Reason in Theology

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 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 Psychology and Religion

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.*

4020 Biblical Issues (Mini-Course)

Prerequisite: THE 1000C. 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, suffering and evil, fundamentalism, biblical interpretation, Christian-Jewish dialogue are examined, evaluated, and discussed.

Credit: 3 semester hours.

4200 Christian Leadership

Prerequisite: THE 1000C and consent of instructor. Course 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.*

4250 Race and Religion in the U.S.

Prerequisite: THE 1000C, and any 2000 or 3000 series course. An examination of the critical and mutually interrelated realities of race and religion in the U.S., in particular, the shifting and varied ways in which racial categories have been used to shape and understand religion in the U.S. Does not fulfill Distributed Core Requirement. *Credit: 3 semester hours.*

4920 Selected Theological Questions

Prerequisite: THE 1000C. Course 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. Course 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. Course 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. Course 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.*

Art and Design

Joseph Adolphe, *Professor of Art*, B.F.A., Alberta College of Art; M.F.A., School of Visual Arts.

Elizabeth Albert, *Associate Professor of Art*, B.F.A., Boston University School for the Arts; M.F.A., CUNY, Queens College.

Elizabeth DeLuna, *Professor of Art*, B.F.A., San Francisco Art Institute; M.F.A., Yale School of Art.

Louis DiGena, *Associate Professor of Art*, B.A., Upsala College; M.F.A., School of Visual Arts.

Paul Fabozzi, *Professor of Art*, B.F.A., Alfred University; M.F.A., University of Pennsylvania.

Amy Rebecca Gansell, *Associate Professor of Art History*, B.A., Barnard College of Columbia University; M.A., Ph.D., Harvard University.

Max Hergenrother, *Adjunct Associate Professor of Art*, B.F.A., St. John's University; M.F.A., School of Visual Arts.

Tyreek Jackson, *Assistant Professor of Music*, B.M., Berklee College of Music; M.A., Ed.D., Columbia University.

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William A. Morel, *Professor of Art*, B.F.A., St. John's University; M.F.A., Rutgers University.

Susan Rosenberg, *Professor of Art History*, B.A., Brown University; Ph.D., New York University.

Claudia Sbrissa, *Professor of Art*, B.F.A., The School of the Art Institute of Chicago; M.F.A., Rochester Institute of Technology.

Aaris Sherin, *Professor of Art*, B.F.A., York University, Toronto; B.E., Queens University, Kingston; M.F.A., Cornell University.

Heidi Upton, *Associate Professor*, B.M., The Juilliard School; M.M., The Juilliard School; D.M.A., Manhattan School of Music.

Asian Studies

Bernadette Li, *Director and Professor*, B.A., National Taiwan University; M.A., University of Washington; Ph.D., Columbia University.

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Biology

Samira Fargali, *Assistant Professor*, M.S. Polytechnic University, Germany; Ph.D. Helmholtz Center for Infection Research, Germany.

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Juan C. Santos, *Assistant Professor*, B.S., Pontificia Universidad Católica del Ecuador; M.S., Ph.D., University of Texas at Austin.

Laura Schramm, *Professor, Director of Environmental Studies Program*, B.S., SUNY, Stony Brook; M.S., St. John's University; Ph.D., SUNY, Stony Brook.

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Louis Trombetta, *Professor*, B.S., M.S., Ph.D., Fordham University.

Ales Vancura, *Professor*, M.S., Ph.D., The Prague Institute of Chemical Technology.

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Chemistry

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Government and Politics

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Luba Racanska, *Associate Professor*, B.A., Yale University; M.A., Ph.D., University of North Carolina, Chapel Hill.

Uma Tripathi, *Associate Professor*, B.A., M.A., University of Bombay; Ph.D., University of Notre Dame.

History/Geography

Joseph A. Bongiorno, *Associate Professor*, B.A., St. Francis College; M.A., St. John's University; Ph.D., University of Connecticut; J.D. New York University Law School.

Mauricio Borrero, *Associate Professor*, B.A., Georgetown University; M.A., Ph.D., Indiana University.

Tracey-Anne Cooper, *Associate Professor*, B.A., Lancaster University; M.A., Ph.D., Boston College.

Jessica L. Harris, *Assistant Professor*, B.A., M.A., Ph.D., University of California, Los Angeles.

Shahla Hussain, *Assistant Professor*, B.A., M.A., Jamia Millia University; Ph.D., Tufts University.

Timothy A. Milford, *Associate Professor*, B.A., Duke University; Ph.D., Harvard University.

Ian Matthew Miller, *Assistant Professor*, B.A., Swarthmore College; M.A., Ph.D., Harvard University.

Philip Misevich, *Associate Professor*, B.A. St. John's University; Ph.D., Emory University.

Susie J. Pak, *Associate Professor*, B.A., Dartmouth College; M.A., Ph.D., Cornell University.

Alejandro Quintana, *Associate Professor*, B.A., Autonomous University of the State of Puebla, Mexico; M.A., Hunter College, CUNY; Ph.D., The Graduate Center, CUNY.

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