School of Humanities and Sciences

Howard Erlich, Dean
Janet R. Redor, Associate Dean
Associate Dean, to be appointed

For full faculty listing, see “Faculty and Administration.”

Mission
The School of Humanities and Sciences’ mission is to provide sophisticated teaching and learning opportunities through an unusually diverse range of programs taught by outstanding faculty. We accomplish our mission in a student-centered learning environment that integrates the enduring benefits of liberal education with professional and applied studies. We recognize that flexible and advanced critical thinking is the appropriate preparation for a wide range of pursuits. To that end, we support research, scholarship, and creative activity as complements to the excellent teaching and advising that are central to all we do, and we strive for collaboration between students and faculty in those endeavors.

Beyond intellectual development, we offer opportunities for students from diverse backgrounds to engage in a broad array of cocurricular activities. An education in the School of Humanities and Sciences encourages informed citizenship, global awareness, and community involvement, preparing students to make meaningful contributions to society and for productive, fulfilled lives.

INTRODUCTION
An education grounded in the liberal arts provides individuals with the lifelong learning skills that are fundamental to continuing personal and professional enrichment. In the School of Humanities and Sciences, students explore and experience the intrinsically satisfying values of a liberal education while developing the knowledge and skills necessary for successful careers in the professions, public service, teaching, business and industry, theater, and the arts. The bachelor of arts and bachelor of science degree programs are also excellent preparation for professional and graduate study.

In an atmosphere of freedom and guidance, most students develop a program of study centered on one of the many departmental majors. Other students may choose to develop an individualized program of planned studies, designing their own curriculum to meet particular aptitudes and interests. In each instance, students are encouraged to examine the full range of disciplines within the liberal arts: the humanities, social and behavioral sciences, natural sciences and mathematics, and fine and performing arts.

The opportunities within the School of Humanities and Sciences are many. Through formal courses and field studies, students develop an understanding and appreciation of the historical antecedents of current social problems and engage in direct study of current social issues. In the science laboratory, on the stage, or in independent study and research, students can learn techniques of specific disciplines. Courses in writing and rhetoric foster facility in written and oral expression. Emphasis is also placed on developing an appreciation of personal and human values as reflected in the literature, history, art, and philosophy of our own and other cultures.

In summary, the goal of the School of Humanities and Sciences is to stimulate students to seek facts, approach problems rationally, and respond logically, sensitively, and creatively to themselves, their fellow humans, and the world about them.

MAJORS IN H&S
The following majors are offered by the departments and interdisciplinary programs of the School of Humanities and Sciences:

- Anthropology (B.A.)
- Art (B.A., B.F.A.)
- Art Education (B.A.)
- Art History (B.A.)
- Biochemistry (B.A.)*
- Biochemistry (B.S.)
- Biology (B.A.)
- Biology (B.S.)
- Biology with Teaching Option (B.A.)
- Chemistry (B.A., B.S.)
- Chemistry with Teaching Option (B.A., B.S.)
- Computer Science (B.A., B.S.)
- Computer Information Systems (B.S.)
- Economics (B.A.)
- Applied Economics (B.S.)
- English (B.A.)
- English with Teaching Option (B.A.)
- Environmental Science (B.A.)
- Environmental Studies (B.A.)
- French (B.A.)
- French with Teaching Option (B.A.)
- German Area Studies (B.A.)
- German with Teaching Option (B.A.)
- History (B.A.)
- Italian Studies (B.A.)
- Mathematics (B.A.)
- Mathematics with Teaching Option (B.A.)
- Mathematics–Computer Science (B.S.)
- Mathematics–Computer Science with Teaching Option (B.S.)
- Mathematics–Economics (B.A.)
- Mathematics–Physics (B.A.)
- Philosophy (B.A.)
- Philosophy and Religion (B.A.)
- Physics (B.A.)
- Physics with Teaching Option (B.A.)
- Planned Studies (B.A., B.S.)
- Politics (B.A.)
- Psychology (B.A.)
- Applied Psychology (B.S.)
- Social Studies (B.A.)
- Social Studies with Teaching Option (B.A.)
- Sociology (B.A.)
- Spanish (B.A.)
- Spanish with Teaching Option (B.A.)
- Speech Communication (B.A.)
- Theater Arts:
  - Acting (B.F.A.)
  - Drama (B.A.)
  - Musical Theater (B.F.A.)
  - Theater Arts Management (B.S.)
  - Theatrical Production Arts (B.F.A.)
- Writing (B.A.)

* No new students admitted

Information about these majors, as well as about the many minors offered by H&S, can be found under “Programs of Study,” beginning on p. 117.

In addition to the courses listed in this catalog, others may be offered on an experimental basis. Details of such courses are published in the Undergraduate Course Offerings and the Humanities and Sciences Supplement for the semester they are offered. Students should consult these publications for specific information on the schedule of all courses for the semester.

SPECIAL REGULATIONS
The following regulations apply to students enrolled in H&S:

1. All candidates for graduation must complete the general education requirement, mathematics requirement, writing requirement, and the requirements listed by the department of their major. Any variation from the requirements in the major field must be approved in writing by the department.

2. A minimum of 120 credits, including satisfactory completion of all required departmental courses and general education requirements, is necessary for graduation.

3. The senior year normally must be taken in residence at Ithaca College. Any variation from this requirement must be approved by the department and dean prior to enrollment in courses elsewhere.

4. Students must select a major by the end of their sophomore year.

5. In order to graduate from H&S, a student must have a minimum cumulative GPA of 2.00 in required courses in the major and no more than two grades below C- in required courses.
6. In order to fulfill the requirements of a minor in H&S a student must have a minimum cumulative GPA of 2.00 in the courses required by the minor and no more than one grade below C- in those courses.

INTERNAL TRANSFERS INTO HUMANITIES AND SCIENCES

All Ithaca College students are required to remain for at least one semester in the school to which they were originally admitted. Therefore, it is possible to transfer into the School of Humanities and Sciences (H&S) on two different bases: through the third semester as an exploratory student, or in any semester as a major in one of the humanities and sciences disciplines. Students wishing to transfer into H&S must meet the minimum academic standards of the school: a cumulative GPA of 2.00 and completion of at least 12 credits each semester and at least 24 credits in each 12-month period. They must also have achieved a GPA of 2.00 for the semester before the transfer and have at least a 2.00 GPA in all H&S courses they have completed. Students may apply at any time during the semester, and those who have been accepted may transfer into the school at any point.

Admission procedure: A change of college/school form, available from the dean’s office, must be submitted to the dean of the School of Humanities and Sciences.

DEAN’S LIST

Each semester, students are selected for the dean’s list in recognition of superior scholastic performance. Students qualify by attaining a minimum GPA of 3.70. They must complete a minimum of 15 credits, of which at least 12 are graded. A grade of D or F or an incomplete (I) in a course automatically disqualifies the student from the dean’s list, regardless of the overall GPA attained for that semester.

GENERAL EDUCATION IN HUMANITIES AND SCIENCES

Mission

The general education program in the School of Humanities and Sciences provides students with the resources necessary for a lifetime of inquiry, discovery, and responsible citizenship. The program fosters literacy in the liberal arts, including an understanding of concepts, perspectives, and methodologies across the humanities and sciences curriculum and the ability to think critically, communicate effectively, and appreciate diverse cultures and perspectives.

Goals

Students should:

1. explore how we, as individuals, come to act and believe as we do, how we relate to one another in small or large groups, and how we govern ourselves within our communities.

2. understand the physical basis of the natural sciences and associated technology, as well as the methods that scientists use to study physical and natural phenomena.

3. learn to perform basic computations and understand how mathematical literacy and/or formal, logical reasoning are necessary to solving a variety of society’s problems, such as those found in business, finance, health, politics, law, and economics.

4. learn to analyze and understand the uses of verbal language in forms of expression such as plays, stories, essays, speeches, and everyday conversation.

5. learn to analyze and understand artistic performances and visual works of art as ways of expressing a range of meaning, from the emotions and ideas of individual creators to the ideas of entire societies.

6. explore how the past shapes the present and the reasons behind the changes.

7. examine self, society, science, mathematics, formal reasoning, language, and/or the visual and performing arts from the position of a human community outside the United States.

To meet these goals, students in H&S must complete foundation, focused curricular choice, and global and historical perspective requirements in addition to the requirements of their specific majors.

Foundation Courses

Writing effectiveness

Effective writing is defined as writing that is clear, focused, and adequately developed in response to an assignment. Such writing is well organized and reasonably correct, according to conventional standards of grammar, punctuation, and usage.

Students can satisfy the writing effectiveness requirement by receiving both

1. a score of 4 or 5 on the College Board Advanced Placement Language and Composition or Literature and Composition Examination and

2. a score of 1 or 2 on the writing department placement test.

Students in H&S who do not satisfy the requirement in this way must complete a level 1 writing course numbers WRGT-10600 to WRGT-16500. At the end of each of these courses, the instructor applies the criteria established for effective writing to determine which students meet the writing requirement. Students are notified of the decision. Students failing to satisfy the requirement after earning credit for WRGT-10600, WRGT-10900, or WRGT-16500 may then meet the requirement either by enrolling in WRGT-11100 (if credit has not already been earned for this course) or by completing a writing portfolio under the direction of a writing department faculty member. At the end of the semester, the student is notified as to whether the requirement has been satisfied.

Students failing to meet the writing effectiveness requirement after completing the portfolio process must satisfy it by meeting guidelines established by their major department. Detailed information on the portfolio process is available from the writing department and the student’s academic adviser. Guidelines for departmental majors are available from each academic department in H&S.

Mathematics

Students must either achieve a score on the math placement exam placing them in group 3, 2, or 1 or, if placed in group 4, earn a grade of C- or better in MATH-10000 or MATH-18000.

Focused Curricular Choice

The general education program of the School of Humanities and Sciences divides its general education curricular choice into five areas. Courses that may be used to fulfill the requirements of the general education program carry a designation indicating the curricular area in which the course is placed. Designated courses that meet major and/or other degree requirements may also be counted toward satisfying the requirements of the general education program.

Some course credit earned through College Board Advanced Placement examinations may not meet the general education requirements of the School of Humanities and Sciences. Up to two courses of AP credit may be used toward the general education requirement. This rule applies when students receive course-specific AP credit for courses that have been designated as general education courses.

Students are required to complete 33 credits in the following five general education areas:

1. Twelve credits in self and society: This curricular area explores how we as individuals come to act and believe as we do, how we relate to one another in small or large groups, and how we govern ourselves within our communities. Two of the following activities must be central to courses meeting this curricular area:
   a. Students will explore their own values, beliefs, and behaviors and trace the causes for and sources of those values, beliefs, and behaviors.
   b. Students will also discover how they express those values and beliefs through their actions and learn to evaluate the effects of those values and beliefs upon their daily lives.
   c. Students will come to understand the developmental process of identity formation.
   d. Students will examine interactions between diverse cultures and institutions and explore areas of both harmony and conflict.
   e. Students will explore the ways in which cultures and institutions help shape, and in turn are shaped by, the lives and decisions of their members.

2. Six credits in science: This curricular area provides understanding of the physical basis of the natural sciences and associated technology, as well as the methods that scientists use to study physical and natural phenomena. Two of the following activities must be central to courses meeting this curricular area:
Global and Historical Perspectives
A number of courses in the five curricular areas of inquiry cultivate a global and/or historical perspective. A course is categorized as primarily global if it concentrates on developing an understanding of communities outside the United States. It is categorized as primarily historical in focus if it concentrates on developing a historical understanding of how communities develop and function. A course can be designated as both global and historical if it concentrates on both of these aspects.

Students in H&S must include in their coursework at least 6 credits with a global designation and 6 credits with a historical designation.

Courses satisfying the global and historical perspectives requirements may come from those courses used to satisfy the area/category requirement. A course with a dual global and historical designation may be used to meet the requirement in one or the other perspective but not both. Credits earned in an approved study abroad program will fulfill the global perspective requirement.

Students are required to complete 12 credits in the following perspectives:

1. Six credits designated to have a global perspective: This curricular requirement is also a perspective found within the five curricular areas. The global perspective is designed to help students understand self and society, science, mathematics, formal reasoning, language, or the visual and performing arts from the position of communities outside the United States. A full semester of study outside the United States fulfills this requirement. Ithaca College courses must focus on one of the following activities to fulfill the global perspective requirement:
   a. Students will examine the nature of the viewpoints, beliefs, and organizations of a community outside of the United States.
   b. Students will examine the verbal, written, or visual ways in which members of a community outside of the United States express themselves through physical structures, works of literature, art, music, or mass media.

2. Six credits designated to have a historical perspective: Courses offering a historical perspective are found within the five curricular areas. Courses carrying this designation must explore how the past shapes the present and the reasons behind historical change. One of the following activities must be central to courses that fulfill the historical perspective requirement:
   a. Students will study how the events, institutions, works, expressions, or ideas that we study from the past are related to what preceded them and followed them.
   b. Students will examine the relationships between contemporaneous events, institutions, ideas, and individuals, and those in a past society.

FIRST-YEAR SEMINAR PROGRAM

Jodi Cohen, Professor and Coordinator
First-year students in the School of Humanities and Sciences are encouraged to begin their college experience with a first-year seminar taken during the fall semester. The seminars are four-credit general education courses specifically designed to help first-year students establish a solid academic and social foundation for a meaningful college experience. Each seminar is taught by one or more members of the H&S faculty, incorporating disciplinary knowledge in the liberal arts with experiential learning activities, both in and out of the classroom. The first-year seminar instructor is the academic adviser of all students in the seminar who are either in the Exploratory Program or are declared majors in the instructor's home department. Some of the seminars are seminars in residence, where students share a common residential experience during the first semester. Students can only receive credit for one first-year seminar.

The goals of the H&S first-year seminar program are

1. To help students work toward a deeper understanding of and tolerance for perspectives outside the students’ own experience by
   a. providing challenging courses in engaging topic areas that make connections among the liberal arts as reflected in the School of Humanities and Sciences general education program,
   b. encouraging students to be active participants in the learning process through analysis, interpretation, and evaluation of course material, and
   c. developing each student’s ability to articulate his or her perspective in both written and spoken communication.

2. To provide a foundation for a meaningful college experience by
   a. smoothing the academic and social transitions faced by students during the first semester,
   b. creating a supportive, small-group experience in the first year that fosters intensive interaction with faculty and other students,
   c. integrating academic and cocurricular activities to provide first-year students with a coherent and broad introduction to the college experience, and
   d. fostering excellent advising relationships, especially for new exploratory students.

Seminars change yearly.
HONORS PROGRAM
James Swafford, Associate Professor and Director

A select number of exceptionally qualified applicants to the School of Humanities and Sciences are invited to apply to the H&S honors program; if admitted, they participate in a series of special, intensive seminars complemented by an array of out-of-class activities. Starting in the fall of the first year, honors students begin a sequence of eight honors seminar courses that help students meet general education requirements of the school. The sequence includes:

- a first-year seminar taken in the first semester;
- five intermediate seminars, normally completed in the second, third, and fourth semesters;
- a seminar on cultural themes taken in the junior year; and
- a capstone seminar on contemporary issues, taken in the senior year.

The seminars focus on a problem, theme, or topic approached from multiple perspectives, taking the student beyond the normal boundaries of disciplinary thought. Students who complete the full seminar sequence graduate with honors in humanities and sciences as designated on their official College transcript.

H&S honors students who transfer to one of the professional schools may complete honors requirements and receive official designation. The H&S honors program does not conflict with departmental honors programs; qualified students can complete both.

Qualified students not originally admitted to the honors program can apply after their first semester; early application is encouraged. Internal transfers to the program must complete a modified requirement of six honors courses: four intermediate seminars, the junior-year seminar, and the senior-year seminar.

External transfer students may apply and will be considered for the program on a case-by-case basis. They are subject to the same honors program requirements as internal transfers. External transfer students with honors associate degrees from institutions with which Ithaca College has articulation agreements may apply for the program and, if admitted, are required to complete a total of four courses: two intermediate seminars, the junior-year seminar, and the senior-year seminar.

CAREER PLANNING FOR H&S MAJORS

Many career possibilities are open to H&S majors, especially to students who choose to explore and develop their own combination of interests and skills. Departmental advisers can help students individualize a four-year course of study in a major by supplementing required courses with other recommended courses to provide general background or specific skills for a chosen career. The advisers will also have information on preprofessional experience, interdisciplinary majors, educational requirements, graduate school, and graduate school testing. Departmental advisers can help students choose to explore and develop their own combination of interests and skills. Students can expect their advisers to provide general background or specific skills for a chosen career. The advisers also have information on preprofessional experience, interdisciplinary majors, educational requirements, and graduate school testing. Students are urged to contact these advisers and to discuss occupation-related matters with their instructors. Since there are many possible options for students in all majors, students are strongly encouraged to talk with counselors in the Office of Career Services in the Garnett Center.

Exploratory Program — Students who wish to investigate a variety of academic disciplines before selecting a major may enter Ithaca College through the Exploratory Program in the School of Humanities and Sciences. Exploratory students are assigned experienced academic advisers who help them choose courses from the liberal arts and preprofessional curricula at the College. After one semester in the program, students are free to enter a major in H&S or apply for transfer to another school of the College. They may also remain in the Exploratory Program through the end of the sophomore year. That is, until they have earned 60 credits at which time they are required to declare a major. Exploratory students are subject to the same academic regulations as all H&S students and are encouraged to take advantage of all the College resources open to the general student population.

Premedical Sciences Program — Students who wish to prepare for any of the medical science professions — dentistry, medicine, optometry, osteopathy, podiatry, veterinary medicine — may do so at Ithaca College in a variety of ways. No specific major is required to prepare for these professions (biology, chemistry, psychology, English, philosophy, and exercise science are some examples of good preparatory majors), but students must complete a minimum of one year each of biology, general or inorganic chemistry, organic chemistry, physics, and English. Calculus is highly recommended.

Courses recommended but not required by the professional schools vary, but include advanced courses in biology, chemistry, physics, and mathematics. All such coursework is available at Ithaca College. Students interested in any of the medical sciences should contact the chairperson of the Premedical Sciences Advisory Committee, Jean Hardwick, 168 Center for Natural Sciences, during their freshman year. This will ensure that their academic programs are planned to meet all requirements for professional school by the end of their junior year and in time for the professional schools’ admissions tests.

Optometry 3-1 Program — This joint program with the Pennsylvania College of Optometry and the State University of New York College of Optometry enables students in certain disciplines to receive both a bachelor's degree from Ithaca College and a doctor of optometry degree in seven years rather than eight. Students must complete 90 credits of college and departmental requirements in a major at Ithaca College, as well as satisfy the requirements specified for admission to the optometry college. After successfully completing the first year at the optometry college, students receive the bachelor's degree from Ithaca College. After completing the remaining three years at the optometry college the student is awarded the doctor of optometry degree.

The majors in biology, psychology, and chemistry require some courses that are entrance requirements for optometry college. However, no specific major is required, as long as the optometry entrance requirements can be incorporated into the major.

This academic program must be planned carefully. Students interested in the program should contact the chair of the Premedical Sciences Advisory Committee, Jean Hardwick, 168 Center for Natural Sciences, upon matriculation at Ithaca College. A standard 4-4 program is also available.

Prelaw Advisory Program — Students may prepare for the study of law by completing any of the regular majors in the School of Humanities and Sciences. Law schools do not stipulate any specific prelaw courses of study. Students planning to study law should discuss this goal with their adviser and develop a program that emphasizes those skills and insights that the Association of American Law Schools has stated are needed for the study of law: (1) comprehension and expression with words; (2) critical understanding of the human institutions and values with which the law deals; and (3) creative power in thinking.

Specific information on law schools and law careers is available from the Office of Career Services. For additional assistance, contact the prelaw adviser, Jonathan Laskowitz, 327 Muller Faculty Center.

Teacher Education Programs — We offer programs leading to initial certification at the middle/secondary levels in the following areas: art (K–12), biology, chemistry, physics, English, math, math–computer science, French, Spanish, German, and social studies. Within each of the programs leading to initial certification, there is a core unit of coursework that all teaching option candidates must complete in addition to the coursework required in their major. Please consult individual department listings or the teacher education program listing for specific information.

ACADEMIC SUPPORT SERVICES

Advising — Academic advising is an important aspect of a student's educational experience. All students are assigned an academic adviser; students with declared majors are assigned an adviser within their major department. Advisers of exploratory students help their advisees identify their interests and select an appropriate major. Students can expect their advisers to provide information about majors, minors, general education requirements, graduation requirements, and other academic policies and procedures. To obtain the full benefit of the advising experience, students are encouraged to meet with their advisers, not only to discuss midterm grades and course selection, but also to seek assistance with the full range of academic decisions they make during their college years.

The academic advising office coordinates all advising assignments within the School of Humanities and Sciences. This office is a resource center for students and faculty, with staff available to meet with students on a drop-in or appointment basis.

Writing Center — Located in 228 Park Hall and directed by the writing department, the center offers individual and small-group tutorials on a referred or self-selected basis to students needing assistance. Help is available with any aspect of the writing process, reading comprehension, or study skills. See p. 197 for writing department courses.
SPECIAL PROGRAMS

Forensics Program — The program provides an opportunity for all students in all disciplines to participate in speaking events held on campus, at intercollegiate events, and in the community at large. Events include competitive debate, noncompetitive oral interpretation, and readers’ theater. The forensics program is supported through the Department of Speech Communication. For more information, contact Scott Thomson, director of forensics, in the Department of Speech Communication located in Muller Faculty Center.

Independent Studies/Fieldwork and Research — Students meeting minimum academic standards (see “Academic Status,” p. 117) or those only on warning for deficiency of credits may undertake independent study projects for either major or elective credit. Normally, students should have completed appropriate coursework in preparation for independent study. For each project undertaken, students must work with a faculty sponsor to prepare the required design statement and application form (available from departments or from the dean’s office) for approval by the sponsoring department, the student’s adviser, and the dean. All projects should be approved in advance of the semester undertaken or no later than the end of the second week of that semester.

Internships — Qualified students meeting the minimum academic standards (see “Academic Status,” p. 117) may undertake internship projects for either major or elective credit if these work-and-study projects have an academic component appropriate to the curriculum of the school. Normally, a student in H&S should have completed three-fourths of his or her major or an appropriate minor in order to qualify for internship credit. Students must work with a faculty sponsor to prepare the required design statement and application form (available in the office of the dean) for approval by the sponsoring department, the student’s adviser, the field supervisor at the worksite, and the dean. All projects must be approved in advance of the semester they are undertaken or no later than the second week of that semester. No more than 12 credits in any combination of internship projects will be counted toward the 120-credit minimum required for graduation.

Individual and Interdisciplinary Studies Programs — For the student who would like to design a major that crosses disciplinary fields, the planned studies major may be of interest. Students may also wish to perform independent fieldwork through the community service program. For a full description of these offerings, see p. 200.

ACADEMIC STATUS

To meet the minimum academic standards, students must pay attention to two areas: grade point average and credits completed toward graduation. Over the period of one semester, students are expected to achieve a GPA of 2.00 and to complete at least 12 credits. Over the period of two semesters, students are required to achieve a cumulative GPA of 2.00 and to complete 24 credits.

Students who fail to meet the minimum academic standards are liable to immediate suspension or to suspension after a warning period. Each case is handled on an individual basis by the student’s dean. If a student’s academic performance is grossly deficient, he or she may be suspended without warning. If the dean’s review indicates that a warning before suspension is appropriate, the procedure below is followed. Students should be aware that the offer of a warning period is a privilege, based on individual review, not a right.

Definitions of Policies and Procedures of the Academic Status Committee

The Humanities and Sciences Academic Status Committee acts on behalf of the faculty and the dean of the School of Humanities and Sciences.

1. “Warning” — a formal letter notifying students that they have failed to meet the minimum school requirements for acceptable progress in grades, in credits, or in a combination of grades and credits, and that continued deficiencies may lead to suspension or dismissal from the School of Humanities and Sciences. Those minimum requirements are
   - a minimum semester GPA of 2.00;
   - a cumulative GPA of 2.00;
   - a minimum of 24 credits in an academic year, with a minimum of 12 credits each semester.

If a student’s academic performance is grossly deficient, he or she may be suspended without prior warning.

2. “Final warning” — a formal letter notifying students that their academic performance is seriously deficient, and they have only one semester to improve their academic standing before suspension. Students may be placed on final warning without prior warnings if deficiencies in their grades and/or credits warrant it. Students given final warning are required to complete at least 12 letter-graded credits at a level of 2.30 or better with no incompletes (I) or Fs, and no more than one grade below C. Other conditions may also be specified in the formal notification. Students who fail to meet these minimum standards will be suspended.

3. “Continuation of warning” — a second formal letter notifying students who have been on warning that they continue to be deficient in credits, grades, or a combination of credits and grades. Generally this letter is sent to students who have demonstrated some improvement over the previous semester but have not yet attained the minimum levels required to remove the formal warning.

Students continued on warning are required to complete their next semester of enrollment with at least 12 letter-graded credits at a level of 2.00 or better, with no incompletes (I) or Fs, and no more than one grade below C. Other conditions may also be specified in the formal notification.

Students may be suspended if this level is not attained; in some cases, they may be continued on warning for one more semester.

4. “Suspension” — formal notice to students that they are suspended from the School of Humanities and Sciences. The length of suspension is specified, and students are informed that they are ineligible to attend courses at the College in either the regular semester or summer session until a semester specified by the notification letter.

5. Return to College following suspension — Students who wish to return after suspension should contact the registrar’s office. The specific requirements that must be met prior to readmission are specified in the suspension letter. Following return to college after academic suspension, students are considered to be on final warning. That is, the minimum level of performance specified in the notification of permission to return must be attained, or the student will be dismissed. In exceptional cases, the student may be permitted an additional semester of final warning by permission of the Humanities and Sciences Academic Status Committee.

6. Dismissal — Students who do not meet the requirements for academic performance specified upon return from suspension will be dismissed from the School of Humanities and Sciences.

Programs of Study

ANTHROPOLOGY

Bachelor of Arts

Jack Rosen, Associate Professor and Chair

The field of anthropology is concerned with the study of humankind. It includes the evolution of the human species and the development and varied nature of the cultures and societies in which people live. Students who major in anthropology engage in scholarly research, fieldwork, and practical training experiences that prepare them for careers in public and community service, education, international development, and professional research. For all students at the College, regardless of their major, anthropology offers a holistic and cross-cultural perspective on human culture that is essential to a liberal arts education.

Anthropology attempts to provide an integrated view of the human condition, and it therefore deals simultaneously with the cultural, social, physical, and historical aspects of the human experience. Anthropology is divided into four fields or areas that reflect this multifaceted approach to humanity: (1) biological anthropology, which is concerned with human evolution, population genetics, primate studies, and the physical variability of human populations; (2) archaeology, which deals with the reconstruction of historic and prehistoric cultures through the retrieval and analysis of their material remains; (3) cultural anthropology, which deals with the distinctive patterns, institutions, and lifestyles of Western and non-Western societies; and (4) anthropological linguistics, which is concerned with the interrelations between culture and systems of communication. An increasingly important fifth field is applied anthropology, which examines the relevance of knowledge derived from these four areas to the amelioration of contemporary human problems in a variety of cultural settings.
The major and minor in anthropology are designed to offer students both background and experience in all aspects of the discipline and to promote creative research and innovative thinking on these aspects of the human condition. The curriculum takes students through four broad levels of knowledge, critical thinking, and experience:

1. Level-1 courses introduce the various subfields of anthropology, including archaeology and cultural and biological anthropology.
2. Level-2 courses acquaint students with the diversity of the world’s present and past cultures by means of geographically oriented offerings on peoples of the Americas, Africa, Europe, Asia, and the Pacific, all of which are regions in which the faculty has been actively engaged in research.
3. Level-3 courses apply this level of knowledge to particular cross-cultural issues and problems, such as economic development, religious experience, personality formation, poverty, health, social change, and research methods.
4. Level-4 courses offer students the opportunity to apply their anthropology in independent study and faculty-supervised field research projects in a variety of cultural settings, whether in Ithaca, elsewhere in the United States, or internationally.

The anthropology program places a strong emphasis on student fieldwork as a crucial part of undergraduate training, and all majors in the department will be given the chance to engage in research and practical experience as part of their education.

Requirements for Honors in Anthropology
The process and criteria by which students may earn departmental honors to be awarded at graduation are fully described in the departmental policy on honors in anthropology, available from the chair of the department. Students with a GPA of 3.50 or better in their anthropology courses who wish to be considered for honors should initiate the process by the middle of their penultimate semester before graduation. They must submit a brief essay describing their anthropology work and development at Ithaca College, and describing their proposed honors project. If approved to apply for honors, they are assigned an honors adviser and undertake a project, such as library or field research, that culminates in writing a significant, original paper. The paper is evaluated by the honors adviser and other faculty in the department. The criteria of evaluation include originality of data or approach, command of relevant literature, clarity of writing, and adherence to conventional standards of academic writing.

Requirements for the Major in Anthropology — B.A.

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<th>Credits in the major</th>
<th>ANTH-10400 Cultural Anthropology</th>
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<td>ANTH-10300 Biological Anthropology</td>
<td>3</td>
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<tr>
<td></td>
<td>ANTH-10700 World Prehistory</td>
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<td></td>
<td>ANTH-30200 Anthropological Field Methods or equivalent</td>
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<td></td>
<td>ANTH-30500 Archaeological Methods and Techniques or equivalent</td>
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<td>Additional anthropology courses, minimally 6 credits at level 2 (excluding ANTH-27400) and 6 credits at level 3, and at least 1 credit of ANTH-47000–ANTH-47700 Fieldwork and Research, ANTH-27400 Archaeological Field School may substitute for Fieldwork and Research for students who also take ANTH-30500 Archaeological Methods and Techniques.</td>
<td>24</td>
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<tr>
<td>Total, credits in the major</td>
<td></td>
<td>36</td>
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<tr>
<td>Credits outside the major</td>
<td></td>
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<tr>
<td>Total</td>
<td></td>
<td>84</td>
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<tr>
<td>Total, B.A. in anthropology</td>
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<td>120</td>
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</tbody>
</table>

At least 24 credits must be taken at Ithaca College. Acceptance of ANTH-30200 Anthropological Field Methods equivalency must be obtained prior to enrollment for such a course elsewhere. It is expected that most students choosing ANTH-30200 as their methods requirement will complete the course at Ithaca College.

Minor in Anthropology

Requirements for the minor in anthropology

<table>
<thead>
<tr>
<th>Credits</th>
<th>ANTH-10400 Cultural Anthropology</th>
<th>3</th>
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<tbody>
<tr>
<td></td>
<td>ANTH-10300 Biological Anthropology</td>
<td>3</td>
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<tr>
<td></td>
<td>ANTH-10700 World Prehistory</td>
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<tr>
<td></td>
<td>Anthropology electives, including at least one course on a non-Western culture area</td>
<td>9</td>
</tr>
<tr>
<td>Total, minor in anthropology</td>
<td></td>
<td>18</td>
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</tbody>
</table>

Students who take ANTH-27400 Archaeology Field School or ANTH-47600 Archival Research and Research to fulfill minor requirements may receive only 3 credits toward the minor, comparable to any other anthropology course, and may not receive credit for both ANTH-27400 and ANTH-47600. Neither course may count as the non-Western course for the minor. Minors are required to take at least 15 credits at Ithaca College.

Fieldwork and Research Opportunities
It is important that anthropology majors spend some time engaged in field research. For this reason, there is a fieldwork requirement in the degree program that can be satisfied in a variety of ways. Fieldwork and research experience are provided in several on-campus departmental courses. In addition, the College and other institutions and organizations sponsor departmentally approved field programs outside the Ithaca area (e.g., School for International Training; see p. 265). It is recommended that each anthropology major participate in at least a one-semester field program, preferably in a different cultural area in the United States or abroad.

Cornell University Anthropology Courses
A reciprocal agreement between Ithaca College and Cornell University permits undergraduate students at each school to have access to courses offered on the neighboring campus if unavailable on their own. Anthropology majors at Ithaca College may take a number of Cornell anthropology credits in satisfying requirements within the major. This would be especially appropriate for students concentrating in biological anthropology, archaeology, or anthropological linguistics.

Language and Research Tools
There is no language requirement for the degree in anthropology. However, for students intending to go to graduate school, language proficiency at the intermediate level is recommended. Language study is highly recommended, particularly for students who plan to satisfy their fieldwork requirement in areas where languages other than English are spoken. Many graduate programs also expect competence in other research tools, such as statistics or computer programming.

Support for Research and Student Development
The department has an endowed fund, the Janet Fitchen Student Development Fund, which helps its advanced students cover some of the costs of research projects and special educational and training opportunities.

Note about Prerequisites
Anthropology majors may not use ANTH-12900 as a prerequisite for other anthropology courses.

ANTHROPOLOGY COURSES

ANTH-10300 Biological Anthropology  NS LA 2a
Introduces the study of humans as biological entities, including evolutionary principles, primate behavior, the fossil record of human evolution, and biological variation in modern populations resulting from various factors. 3 credits. (F–S,Y)

ANTH-10400 Cultural Anthropology  SS LA 1, g
Examines the diversity of the world’s societies, including “primitive” hunter-gatherer societies, herding pastoralists, peasant agriculturalists, and industrial peoples in rural and urban places. It emphasizes the role of culture in shaping human adaptations and human actions, and promotes understanding of other cultures. This course examines the way anthropologists do fieldwork, and looks at the contributions anthropology can make to an understanding of modernization, social change, urbanization, race relations, and cross-cultural communication. Reflecting the research experiences of individual professors, different sections of this course emphasize different cultures or regions of the world. 3 credits. (F–S,Y)

ANTH-10700 World Prehistory  SS LA 1 h, g
Discusses the major achievements of prehistoric humans — from the beginning of culture ca. 2.5 million years B.C. to the rise of the earliest civilizations a few thousand years ago. 3 credits. (F or S,Y)

ANTH-12900 Introduction to Global Studies  SS LA 1, g
Examines interconnections among third world and industrialized nations from both cross-cultural and interdisciplinary perspectives. Issues studied include population pressure, ecological crises, food and famine, domestic peace and national security, and development/underdevelopment. The course also explores alternative models and futures, and emphasizes global citizenship and individual empowerment. Students may receive credit for only one of the following courses: ANTH-12900, POLT-12900, or HPS-12900. 3 credits. (F–S,Y)
ANTH-15400  Crossing Cultures: The Anthropology of International Travel
Examines tourism and travel in their various forms and the issues raised, including tourism's social impact and role in globalization, and introduces an anthropological perspective on the process of crossing cultures. In addition, the course explores such anthropological concepts as culture, ethnocentrism, cultural relativism, value conflict, and culture shock, relying on both first-person and novelistic accounts by anthropologists and other travelers, as well as analyses by tourism professionals. In the process, students consider the qualitative difference between tourism and travel — from the perspective of both hosts and guests — with a goal of becoming more introspective tourists and travelers. 3 credits. (IRR)

ANTH-19000  Selected Topics in Anthropology
Special courses may be offered at the introductory level that encompass broad anthropological interest or issues. This course may be repeated for credit for different selected topics. 3 credits. (IRR)

ANTH-22200  Southeast Asia: Its Peoples and Cultures
Focuses on the peoples of mainland and island Southeast Asia. First, students study how these peoples developed their present-day patterns and cultures. Then, they deal with the modern complexities of life in the pluralistic societies of mainland Southeast Asia. The conflicting values of upland and lowland peoples in their struggle for a share of resources in a rapidly urbanizing situation are discussed, as are the many Western influences on the East and vice versa. Prerequisites: ANTH-10400 or ANTH-12900. 3 credits. (IRR)

ANTH-22500  South Asia: India and Its Neighbors
Exploration of cultural diversity in South Asia with focus on India; introduction to Pakistan, Bangladesh, Sri Lanka, Nepal, and the Tibetan diaspora. Background survey of the subcontinent's ecology and history provides a framework for examining themes of unity and diversity in contemporary village life, urbanization, family and gender relations, caste and class, religion and ritual, and the effects of colonialism. Prerequisites: ANTH-10400 or ANTH-12900. 3 credits. (F or S Y)

ANTH-23500  Jewish Cultures: A Worldwide View
Comparative study of Jewish communities in many lands. A historical overview emphasizes themes and practices common to Jews everywhere, and examines patterns of oppression and tolerance that have affected Jewish migration, continuity, and social change. Ethnographic studies introduce particular Jewish cultures in Asia, Africa, Europe, Arab lands of the Middle East, the United States, and Israel. Each Jewish culture is viewed as a unique blend of universally Jewish elements with particular economic and political survival strategies, social customs, beliefs, and creative expressions. Prerequisites: ANTH-10400. 3 credits. (Y)

ANTH-23610  American Jewish Life
Exploration of contemporary Jewish life in the United States from a sociocultural perspective, looking at issues in the context of both Jewish and U.S. culture and history. Topics include immigrant background and experiences; ethnicity, class, and politics; responses to discrimination and social inequality; relations with other U.S. ethnic groups; changing family and gender relations; religious movements; secular Jewish culture; responses to international issues (Holocaust, Israel); and American Jewish cultural diversity. Cross-listed with SOCI-23610. Students may not receive credit for both ANTH-23610 and SOCI-23610. Prerequisites: ANTH-10400. 3 credits. (Y)

ANTH-24100  Modern Africa
Focuses on processes at work in contemporary black Africa, rural as well as urban, colonial as well as independent. Themes include the colonial legacy; cultural change and continuity; urbanization; approaches to economic development and political modernization; and liberation movements. Prerequisites: ANTH-10400 or ANTH-12900. 3 credits. (F or S Y)

ANTH-25100  People, Plants, and Culture: Ethnobotany and Archaeobotany
An examination of the present and past interrelationships between people and plants. Students study plants as food, medicine, materials, and religion throughout the human experience, focusing on non-Western peoples. Topics include plant domestication and developmental trajectories, ethnopharmacology, Native American plant use, oral histories, and shaman-hallucinogen complexes. Also explored are the roles plants play in shaping culture and cultural change, defining social boundaries, and creating status. The final portion of the class considers important current topics and debates, such as bioprospecting, genetic modification, and intellectual property rights. Prerequisites: ANTH-10400 or ANTH-10700. 4 credits. (S,O)

ANTH-26500  South American Prehistory
An examination of the prehistory of the South American continent from the earliest evidence of occupation until the appearance of Europeans in the 16th century. Emphasis is placed on the cultural developments of western South America, especially Peru, due to the extensive archaeological record in that area; those cultural developments are placed in the context of the prehistory of the rest of the continent as well. Particular attention is paid to the mechanisms of cultural adaptation and cultural evolution. Prerequisites: ANTH-10400 or ANTH-10700. 3 credits. (S,O)

ANTH-26900  Mesoamerican Prehistory
An examination of the origins and development of the Aztec, Maya, and other civilizations of Mexico and Central America, from the first human occupation of the region to the Spanish Conquest. The course uses evidence from archaeology and the writings of pre-Columbian and European chroniclers to reconstruct the lifeways of ancient Mesoamerican cultures and examine the processes that propelled their evolution. Prerequisites: ANTH-10400 or ANTH-10700. 3 credits. (F,O)

ANTH-27000  North American Indians
Seminar on Indian culture and background, as well as contemporary Indian problems in the continental United States. Readings on the rich and varied heritage of American Indians research and presentations on current problems facing specific Indian groups. Prerequisites: ANTH-10400. 3 credits. (Y)

ANTH-27300  The Iroquois and Their Neighbors
Traces the development and current state of the Iroquois people, a vibrant and powerful Native American society of the Northeast. Looks at how the Iroquois developed out of earlier societies and what role European contact played in their development. A substantial part of the course will be an assessment of the Iroquois today, including their social, economic, and political institutions. Additional information on neighboring societies, past and present, and their interactions with the Iroquois will also be addressed. Prerequisites: ANTH-10400. 3 credits. (IRR)

ANTH-27400  Archaeological Field School
Introduction to archaeological fieldwork. Training in the basic techniques of archaeological research design, reconnaissance, survey, mapping, excavation, and basic field laboratory methods, including data processing, classification, and preliminary analysis. Use of a transit, laying out of grids, and identification of different kinds of archaeological data, such as ceramics, lithics, features, and ecofacts will be covered. Prerequisites: ANTH-10400 or ANTH-10700. 6 credits. (Sum only, IRR)

ANTH-27500  North American Prehistory
A survey of the origin and development of native North American cultures from their appearance on the continent to their contact with Europeans. In addition to describing North American culture history, the course aims to instill in students an appreciation for the diversity and accomplishments of Native American cultures. Topics to be discussed include when humans arrived in North America, the origins of agriculture, and the rise of complex societies. Prerequisites: ANTH-10400 or ANTH-10700. 3 credits. (Y)

ANTH-27700  Native Americans and the Environment
Provides a range of perspectives on the relationships between Native Americans and the environment, revolving around anthropological concepts such as culture, ecology, and colonialism. Based on the centrality of land to Native culture and the connections between land and the sacred, students explore how land-people relations were reworked and misinterpreted following Western colonization. Topics include environmental racism, environmental justice, and the influence of government policies regarding Native access, use, and control of indigenous lands. Case studies from throughout North America, including upstate New York, exemplify conflicts over Native sacred sites and instances where Native people are revitalizing their cultures, commanaging lands such as national parks, and developing educational outreach programs. Prerequisites: ANTH-10400. 3 credits. (S,E)

ANTH-27800  Northeastern Native Americans: Past and Present
An examination of the past and present of indigenous peoples throughout northeastern North America. A background survey of the archaeological chronology covers groups ranging from hunter-gatherers to great confederacies. Themes that cut across time periods and regions of the northeast are studied, such as cultural ecology, resource use, gender, migrations, plant cultivation, ritual, ideology, and politics. The effects of the Euro-American contact period and the Revolutionary War are examined. Local contemporary issues discussed include revitalization movements, land claims, gaming, and the negotiation/survival of tradition. Prerequisites: ANTH-10400 or ANTH-10700. 3 credits. (F,E)
ANTH-28000 Anthropology of the Contemporary United States
SS LA
An invitation to think anthropologically about the society and culture of contemporary America. Students use the methods, theory, and findings of anthropology as well as anthropological studies of other societies as a means of gaining insight into our own society. Prerequisites: ANTH-10400. 3 credits. (IRR)

ANTH-28200 Anthropological Experience in Hawaii
SS LA
A fieldwork-based study of the anthropology of Hawaii. The anthropological perspective is a holistic orientation that entails not just examining one aspect of culture, but exploring the interconnections between many facets of cultural history and contemporary experience. This is accomplished in this course through a grounding in Hawaiian history and archaeology, followed by an examination of traditional agriculture, lifeways, multiculturalism, and the impact of colonization, tourism, and the native sovereignty movement. Specifically, students learn through participant observation in contexts of Hawaiian healing, sacred sites, traditional taro growing, and preserving indigenous ecology at an ethnobotanical preserve. Note: Extra fees may be charged for this course. Prerequisites: ANTH-10400 or ANTH-10700. 3 credits. (Y)

ANTH-28300 Integrative Health Care in American Culture
SS LA
Utilizes a cultural framework to analyze the rapidly expanding and dynamic arena of alternative, complementary, and integrative health care in the United States. Through an anthropological lens, the course examines the history, scope, cross-cultural bases, and theoretical foundations of the many healing modalities that are employed in integrative approaches, including Chinese medicine, Ayurveda, Native American healing, herbalism, chiropractic, naturopathy, and homeopathy. Multiple paradigms of health and culture are examined, identifying areas of debate and convergence. Both quantitative and qualitative approaches to the study of health, culture, and society are examined, in addition to the politics of integrative health care as it relates to political economy, licensing, status, ethnicity, and gender. Prerequisites for anthropology majors and minors: ANTH-10400, Prerequisites for others: Sophomore standing; one introductory course in the social sciences. 3 credits. (Y)

ANTH-28500 Caribbean Cultures
SS LA, g
This course employs a thematic and cross-cultural approach in its examination of the cultural diversities and continuities of the Caribbean. Includes a historical overview, paying special attention to the role of slavery and colonialism in the construction of these societies, and examines such themes as family, gender and kinship, religion and resistance, the division of labor and patterns of migration, and the social impact of tourism. Current events are stressed throughout the course, including contemporary issues having to do with the larger political economy of the region, set in their cultural and historical context. Prerequisites: ANTH-10400 or ANTH-12900. 3 credits. (IRR)

ANTH-28800 The Theory and Practice of Anthropology
SS LA
Provides a history of the field of anthropology, from its origins through the late 20th century. It focuses on major themes and schools of thought that have influenced the direction and perspective of anthropologists. The course covers major trends in cultural anthropology, archaeology, and biological anthropology to provide the historical background and theory that a serious student of anthropology should have. Prerequisites for anthropology majors and minors: ANTH-10400. Prerequisites for others: Sophomore standing; permission of instructor. 3 credits. (S,Y)

ANTH-29000–ANTH-29900 Seminar in World Ethnography: Selected Topics
SS LA
Focus on particular geographic areas not generally covered in other upper-level regional courses, such as Polynesia, Latin America, and the Middle East. Prerequisites: ANTH-10400 or ANTH-12900. 2–3 credits. (Y)

ANTH-30200 Anthropological Field Methods
SS LA
Introduction to research techniques used in fieldwork, including philosophy of science, research design, data gathering, data recording, data analysis, basic statistics, report writing, and ethics in fieldwork. Research project. Prerequisites: ANTH-10400; two courses in the social sciences. 3 credits. (F or S,Y)

ANTH-30500 Archaeological Methods and Techniques
NS LA
Focus on the ways that archaeologists discover, analyze, interpret, and explain the lifestyles of past cultures. The course is arranged in the way that archaeologists approach the solution of a research problem. Topics include the nature of archaeological evidence, how data are obtained through survey and excavations, the many kinds of analysis that archaeologists use to identify past lifeways, the techniques of dating sites, and how entire prehistoric culture systems are reconstructed. Also included are discussions of the use of theory in explaining cultural change and cultural processes, and how archaeologists evaluate competing theories. Prerequisites: ANTH-10400 or ANTH-10700; two courses in the social or natural sciences. 3 credits. (F,E)

ANTH-31000 Culture and Personality
SS LA
Effect of various cultural systems on the development of individual personalities and the influence of the individual on his or her cultural environment. Cultural patterning of sex roles; social influences on cognition and perception; development of language and thought systems in childhood socialization; cultural handling of aggression; problems in the description of personality; cultural concepts of “normal” and “abnormal” behavior; cultural use of mind-altering substances (drugs, alcohol) that affect personality; and how people define and respond to stress, tension, and change in different cultures. Prerequisites: ANTH-10400; two courses in the social sciences. 3 credits. (Y)

ANTH-31400 The Beastly Mirror
SS LA
A study of the relationship between people and domesticated animals in cultural ecology, symbolism, history, and aesthetics. The course uses material from anthropology, history, biology, art, and literature to examine African cattle, Middle Eastern sheepdogs, arctic reindeer, New Guinea pigs, Western pets, and India's sacred cows. Seminar format. Prerequisites: ANTH-10400; two courses in the social sciences. 3 credits. (Y)

ANTH-32000 Anthropology of Religion
SS LA
The religious experience from the standpoint of ethnographic field studies and from various theoretical approaches. Examines the relationships among religion, culture, and society. Explores the evolution of the anthropological study of religion. Prerequisites: ANTH-10400; two courses in the social sciences, 3 credits. (Y)

ANTH-33000 Family, Kinship, and the Social Order
SS LA
Exploration of the nature of family and kinship groups in non-Western societies; their role in religious, political, ritual, and economic processes. Alternative family and marriage forms, including polygamy, polyandry, group marriage, and incest taboos. Focus on exchange; significance of kinship structures and non-Western alternatives. Lectures, seminar, and ethnographic fieldwork by students. Prerequisites: ANTH-10400; two courses in the social sciences. 3 credits. (IRR)

ANTH-33500 Women and Culture
SS LA
The lives of women vary considerably cross-culturally. This course explores the nature of this variation as well as the cultural construction of gender roles. Special attention is given to the relationship between gender roles and economies, politics, power, authority, religion, and family life. Using case studies from various regions of the world, including the United States, the course examines how women's lives are affected by their social status, race, ethnicity, and position in the life cycle. Prerequisites: ANTH-10400; two courses in the social sciences. 3 credits. (F or S,Y)

ANTH-34000 Aging and Culture
SS LA
Aging is a universal experience, but its meaning differs dramatically in various societies. The impact of culture on late life is explored in primitive, peasant, third world, European, and American societies. Emphasis is given to how cultural, ecological, and value systems affect longevity; the control of power and wealth in late life; the degree to which the elderly are isolated from or engaged in their communities; and the influence of older people's gender on family, social, and religious roles. The implications of these factors for policy decisions are also explored. Prerequisites: ANTH-10400, ANTH-12900, or two courses in aging studies. 3 credits. (Y)

ANTH-34600 Life Stories: An Ethnographic Approach
SS LA
Focusing on the life story as a window for exploring culture and ethnographic study as a path to understanding individual lives, this seminar examines cultural content, methodology, theory, and ethical issues in a variety of life story genres, including journalism and films, as well as oral history and autobiography. Research projects include fieldwork interviews. Prerequisites: ANTH-10400; two courses in the social sciences. 3 credits. (F or S,Y)

ANTH-35000–ANTH-35900 Cultural Change: Selected Topics
SS LA
Recent courses have focused on social change in Latin America, Southeast Asia, and Africa. This course may be repeated for credit for different selected topics. Prerequisites: ANTH-10400 or ANTH-12900; two courses in the social sciences. 3 credits. (Y)
ANTH-36400  New World Complex Societies  SS LA
The origins and evolution of civilizations and other complex societies in two areas of the New World: prehistoric Mexico and Peru. The course focuses on select cultures, including the Maya, Aztec, and Inca, that followed different paths to achieve a high level of cultural development. Factors important in this development, including the environment, social systems, religion, and politics, are discussed. The course explores why these societies developed in order to grasp the relationships that hold a society together or tear it apart. Prerequisites: ANTH-10400 or ANTH-10700; two courses in the social sciences. 3 credits. (S,E)

ANTH-36500  Israel: Ethnicity, Politics, and Culture  SS LA
Examination of society and culture in the modern state of Israel, with an emphasis placed on the interaction of ethnicity, politics, and religion. The course explores origins, self-definitions, and social interactions among diverse groups of Israeli citizens, including Jews, Arabs, Bedouin, Druze, and Israeli Jews and non-Jews. While focusing on Israeli citizens, the course will acknowledge the interconnected lives of Palestinians striving to form their own state. Prerequisites: ANTH-10400 or ANTH-12900; two courses in the social sciences. 3 credits. (E)

ANTH-37000  Applied Anthropology  SS LA
Examination of a major new career field in anthropology, comparing the activist role of the applied anthropologist with the research orientation of much of the discipline. Considers the manner in which the perspectives, field methods, and cultural knowledge of anthropologists have been applied in planning, implementing, and evaluating economic and social change projects. Case studies documenting the complexity of projects suggest the risks, demands, and challenges of applied anthropology, as well as the potential for ethical conflict and failure. Prerequisites: ANTH-10400 or ANTH-12900; two courses in the social sciences. 3 credits. (F or S,Y)

ANTH-37200  Native American Women and Culture  SS LA
Examines the diversity and commonalities of Native women’s voices and experiences in multiple cultural contexts. This course explores the representation and misrepresentation of Native women by missionaries, colonists, historians, writers, and anthropologists. Perspectives of Native women as anthropologists, authors, clan mothers, and storytellers are emphasized. Political, economic, and spiritual roles of Native American women are discussed, with an emphasis on the Haudenosaunee (Iroquois). Other topics include mythology, health and healing, and the contributions of Native women to the American feminist movement, human rights, and environmental activism. Prerequisites: ANTH-10400 or ANTH-12900; two courses in the social sciences. 3 credits. (F or S,Y)

ANTH-37500  Environmental Anthropology  SS LA
Examination of the cultural dimensions of the sustainable use and management of natural resources in the context of global efforts to effect social change and economic development. Much of the focus is on less-developed countries’ indigenous peoples, rural peasants, and urban underclass, and their ethnoecologies. Critical attention is also paid to industrialized nations’ impact on peoples and cultures of the third world and to their role as dominant forces in establishing global environmental policy. Included in the course are case studies of the United States” culture of consumption,” an examination of the relationship between development and the environment, and a discussion of public policy alternatives. Prerequisites: ANTH-10400 or ANTH-12900; two courses in the social sciences. 3 credits. (F or S,Y)

ANTH-37600  Poverty  SS LA
An interdisciplinary approach to the study of poverty, combining sociology and anthropology. The course examines poverty in contemporary America from three perspectives: (1) the ethnographic perspective — understanding poverty through anthropological case studies, which is the emphasis in the course; (2) the holistic perspective — examining the social and cultural context in which poverty exists, searching for causal factors; and (3) the applied perspective — evaluating policy and programs for dealing with or eliminating poverty. Cross-listed with SOCj-37600. Students may not receive credit for both ANTH-37600 and SOCj-37600. Prerequisites: ANTH-10400 or ANTH-12900; two courses in the social sciences. 3 credits. (IRR)

ANTH-38000  Medical Anthropology  SS LA
Comparative study of the ecological and sociocultural contexts of human health from a global perspective. Prerequisites: ANTH-10400 or ANTH-12900; two courses in the social sciences. 3 credits. (IRR)

ANTH-38200  Ethnoarchaeology  SS LA
Ethnoarchaeology is the study of living societies from an archaeological perspective. It is particularly concerned with patterned variability in material culture (architecture, artifacts, and material by-products) and its relation to human behavior and organization. This “living archaeology” is an important component of a growing body of middle-range theory that archaeologists use to give voice to the mute archaeological record. At the same time, it provides a deeper appreciation of the technological, economic, and symbolic roles of material culture in today’s societies. Class work may include both campus and community projects that examine and illustrate the theory, methods, and results of ethnoarchaeology. Prerequisites: ANTH-10400 or ANTH-10700; two courses in the social sciences. 3 credits. (IRR)

ANTH-38600  Hunter-Gatherers  SS LA
Examines in a seminar format past and present hunter-gatherer societies and the various ways that ethnographers and archaeologists have tried to understand them. Topics include Marxist, structural, and neo-Darwinian models; technology; social relations; economics; territories and property rights; gender; symbols and ideology; cultural evolution and change; culture contact; government intervention; and Native perspectives. Students reflect on what hunter-gatherer egalitarian societies representing 99 percent of the human experience tell us about our basic human nature and modern societies. Prerequisites: ANTH-10400 or ANTH-10700; two courses in the social sciences. 3 credits. (IRR)

ANTH-38800  Origins of Agriculture  SS LA
The development and spread of agriculture arguably changed the course of human history more than any single cultural process. This seminar reviews the history of thought and debate concerning the development of prehistoric agriculture and the processes of plant cultivation and domestication. Emphasis is placed on recent interdisciplinary developments in ethnobotany and archaeobotany that allow detailed, complex scientific evidence to be considered. Readings and discussion include historical pieces, theoretical treatises, and regional case studies from around the world. Students will learn of the diversity of anthropological theory in the context of the study and analysis of one of humanity’s fundamental lifestyle changes. Prerequisites: ANTH-10400, ANTH-10700, or BIOL-12200; two courses in the social sciences. 3 credits. (IRR)

ANTH-39000–ANTH-39900 Seminar on Anthropological Issues  SS LA
Consideration of central issues in contemporary anthropological research. Recent seminars have dealt with politics, educational systems, and economic development. Prerequisites: ANTH-10400; two courses in the social sciences. 2–3 credits. (Y)

ANTH-46000–ANTH-46900 Advanced Readings in Anthropology  UL LA
Arrangements are initiated by the student interested in a topic not covered by regular course offerings. Prerequisites: ANTH-10400; three other anthropology courses; permission of instructor. 1–4 credits. (F-S)

ANTH-47000  Fieldwork and Research in Ethnography: Seminar  UL LA
Provides advanced anthropology students with a specialization in cultural anthropology an opportunity to do supervised fieldwork, as required for the major. It combines small group class meetings and out-of-class research projects. Group projects enable students to utilize and improve their skills in the methodological approaches previously learned. Research topics might include current campus or community issues, sociocultural patterns of people on campus or in the Ithaca area, and any relevant and appropriate culturally shaped behavior. Prerequisites: ANTH-30200. 3 credits. (IRR)

ANTH-47200  Fieldwork and Research in Archaeology: Seminar  UL LA
Provides advanced anthropology students with a specialization in archaeology an opportunity to do supervised fieldwork, as required for the major. It combines small group class meetings and out-of-class research projects. Group projects enable students to utilize and improve their skills in the methodological approaches previously learned. Research might include reconnaissance, surveys, or excavation of local sites; laboratory analysis of archaeological data already collected; or other archaeologically focused activity. Prerequisites: ANTH-30200. 3 credits. (IRR)

ANTH-47500  Ethnographic Fieldwork and Research  UL LA
An alternative to ANTH-47000 for advanced anthropology students with a focus in cultural anthropology whose research plans would benefit from a more individualized approach. The research may be conducted within or away from the Ithaca area under supervision by an anthropology faculty member. Prerequisites: ANTH-30200; consultation with and permission of instructor. 1–6 credits. (F,S,Y)
Art

ANTH-47600  Archaeological Fieldwork and Research  U LA
An alternative to ANTH-47200 for advanced anthropology students with a focus in anthropology whose research plans would benefit from a more individualized approach. The research may be conducted within or away from the Ithaca area under supervision by an anthropology faculty member. Prerequisites: ANTH-30500; consultation with and permission of instructor. 1–6 credits. (F-S-Y)

ANTH-47700  Fieldwork and Research: Special Projects  U LA
An alternative to ANTH-47200 Fieldwork and Research in Ethnography; Seminar and ANTH-47200 Fieldwork and Research in Archaeology; Seminar for advanced anthropology students with a focus other than ethnography or archaeology whose research plans would benefit from a more individualized approach. The research may be conducted within or away from the Ithaca area under supervision by an anthropology faculty member. Prerequisites: ANTH-30200 or ANTH-30500; consultation with and permission of instructor. 1–6 credits. (F-S-Y)

ANTH-49000  Seminar: Selected Topics in Anthropology  SS LA
Topics of current faculty interest in departmental fields. Recent seminars have focused on anthropological perspectives on the world food crisis, concepts of adaptation in the social sciences, and the history of anthropology. This course may be repeated for credit for different selected topics. Prerequisites: ANTH-10400: one level-2 course in anthropology; junior standing or equivalent. 1–4 credits. (IRR)

ART

Bachelor of Arts, Bachelor of Fine Arts

Harry McCue, Professor and Chair
The curriculum prepares students for graduate training in art and for careers as professional artists. Art majors are required to take at least two of the six introductory courses before taking classes above level 2. All classes meet twice a week.

Requirements for Honors in Art
A B.A. or B.F.A. art student wishing to pursue honors in art should submit a written proposal to the chair of the department before the end of the first semester of his or her senior year. This proposal should include a request for a faculty sponsor who will work with the applicant in an advisory capacity. Honors awards will be based on three criteria: a full faculty review of the applicant's portfolio, an oral presentation of the concepts and methodologies that are the basis for the production of the portfolio, and the applicant's GPA. The portfolio should represent a body of work (e.g., solo exhibition or slide presentation) beyond the requirements for the major. Portfolio presentations must be scheduled by the student to take place during the second semester of the senior year. The deadline for the presentation will be no later than the third week in March for those graduating at the end of the spring semester. In order to receive honors, the applicant must have a cumulative GPA of 3.50 or higher.

Requirements for the Major in Art — B.A.

Credits in the major

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART-12000</td>
<td>Two-Dimensional Design</td>
</tr>
<tr>
<td>ART-13000</td>
<td>Introduction to Drawing</td>
</tr>
<tr>
<td>ART-14000</td>
<td>Introduction to Painting</td>
</tr>
<tr>
<td>ART-15000</td>
<td>Introduction to Sculpture</td>
</tr>
<tr>
<td>ART-15400</td>
<td>Printmaking — Intaglio/Relief</td>
</tr>
<tr>
<td>ART-49000, ART-49100</td>
<td>Senior Project</td>
</tr>
<tr>
<td>CNPH-14100</td>
<td>Introduction to Photography</td>
</tr>
<tr>
<td>ARTH-11700</td>
<td>Survey of Western Art I</td>
</tr>
<tr>
<td>ARTH-11800</td>
<td>Survey of Western Art II</td>
</tr>
<tr>
<td>ART-28500</td>
<td>Art since 1960</td>
</tr>
</tbody>
</table>

Total, required credits in the major 34

Restricted electives in the major — A total of 12 credits selected from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART-22100</td>
<td>Figure Drawing</td>
</tr>
<tr>
<td>ART-25500</td>
<td>Printmaking — Silk Screen</td>
</tr>
<tr>
<td>ART-25600</td>
<td>Printmaking — Lithography</td>
</tr>
<tr>
<td>ART-27000</td>
<td>Book Design</td>
</tr>
<tr>
<td>ART-22200</td>
<td>Intermediate Drawing</td>
</tr>
<tr>
<td>ART-22300</td>
<td>Intermediate Painting</td>
</tr>
<tr>
<td>ART-25000</td>
<td>Intermediate Sculpture</td>
</tr>
<tr>
<td>CNPH-24200</td>
<td>Intermediate Photography</td>
</tr>
</tbody>
</table>

A total of 12 credits selected from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART-32500</td>
<td>Advanced Drawing</td>
</tr>
<tr>
<td>ART-34000</td>
<td>Advanced Painting</td>
</tr>
<tr>
<td>ART-35000</td>
<td>Advanced Sculpture</td>
</tr>
<tr>
<td>ART-38000</td>
<td>Computer Art and Animation</td>
</tr>
<tr>
<td>ART-39900</td>
<td>Independent Study</td>
</tr>
<tr>
<td>ART-49900</td>
<td>Independent Study</td>
</tr>
<tr>
<td>CNPH-34100</td>
<td>Color Photography</td>
</tr>
</tbody>
</table>

A total of 9 credits selected from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART-22100</td>
<td>Figure Drawing</td>
</tr>
<tr>
<td>ART-27000</td>
<td>Book Design</td>
</tr>
<tr>
<td>ART-38000</td>
<td>Computer Art</td>
</tr>
</tbody>
</table>

Total, restricted electives 33

Credits outside the major

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART-11000</td>
<td>Introduction to Art</td>
</tr>
<tr>
<td>ART-12000</td>
<td>Two-Dimensional Design</td>
</tr>
<tr>
<td>ART-13000</td>
<td>Introduction to Drawing</td>
</tr>
<tr>
<td>ART-14000</td>
<td>Introduction to Painting</td>
</tr>
<tr>
<td>ART-15000</td>
<td>Introduction to Sculpture</td>
</tr>
<tr>
<td>ART-15400</td>
<td>Printmaking — Intaglio/Relief</td>
</tr>
<tr>
<td>ART-49000, ART-49100</td>
<td>Senior Project</td>
</tr>
<tr>
<td>CNPH-14100</td>
<td>Introduction to Photography</td>
</tr>
<tr>
<td>ARTH-11700</td>
<td>Survey of Western Art I</td>
</tr>
<tr>
<td>ARTH-11800</td>
<td>Survey of Western Art II</td>
</tr>
<tr>
<td>ART-28500</td>
<td>Art since 1960</td>
</tr>
</tbody>
</table>

Total, B.A. in art 120

Requirements for the Major in Art — B.F.A.

Required credits in the major

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART-12000</td>
<td>Two-Dimensional Design</td>
</tr>
<tr>
<td>ART-13000</td>
<td>Introduction to Drawing</td>
</tr>
<tr>
<td>ART-14000</td>
<td>Introduction to Painting</td>
</tr>
<tr>
<td>ART-15000</td>
<td>Introduction to Sculpture</td>
</tr>
<tr>
<td>ART-15400</td>
<td>Printmaking — Intaglio/Relief</td>
</tr>
<tr>
<td>ART-49000, ART-49100</td>
<td>Senior Project</td>
</tr>
<tr>
<td>CNPH-14100</td>
<td>Introduction to Photography</td>
</tr>
<tr>
<td>ARTH-11700</td>
<td>Survey of Western Art I</td>
</tr>
<tr>
<td>ARTH-11800</td>
<td>Survey of Western Art II</td>
</tr>
<tr>
<td>ART-28500</td>
<td>Art since 1960</td>
</tr>
</tbody>
</table>

Total, required credits in the major 34

Restricted electives outside of the department — A total of 9 credits selected from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTH-11000</td>
<td>Introduction to Art</td>
</tr>
<tr>
<td>ARTH-11700</td>
<td>Survey of Western Art I</td>
</tr>
<tr>
<td>ARTH-11800</td>
<td>Survey of Western Art II</td>
</tr>
<tr>
<td>ARTH-13500</td>
<td>Nineteenth-Century European Art</td>
</tr>
<tr>
<td>ARTH-29100</td>
<td>Twentieth-Century European Art</td>
</tr>
</tbody>
</table>

Total, restricted electives outside of the department 9

Core education requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC-21910</td>
<td>Early Field Experience: Theory and Practice</td>
</tr>
<tr>
<td>COMP-20100</td>
<td>Technology for the Middle/Secondary School Teacher</td>
</tr>
<tr>
<td>EDUC-10900</td>
<td>Literacy Education for the Middle/Secondary School Teacher</td>
</tr>
<tr>
<td>SLPA-23900</td>
<td>Educating Children with Special Needs</td>
</tr>
</tbody>
</table>
**SLPA-22900** Second Language Acquisition: Its Nature and Meaning for Educators  
**PSYC-21010** Educational Psychology  
**EDUC-34000** Social and Cultural Foundations of Education  
**EDUC-30810** Pedagogy and Practice across the Disciplines  
**EDUC-31410** Pedagogy and Practice for the Art Teacher  
**EDUC-41210** Seminar in Reflective Practice  
**EDUC-49810** Professional Semester in Education  
**EDUC-11000** Child Abuse Identification and Prevention Seminar  
**EDUC-11100** Drug and Alcohol Abuse: Identification and Prevention Seminar  

Total, core education requirements 39

### Additional requirements

1. All teaching-option students must successfully complete a year of college-level study in a language other than English. Students may test out of this requirement by taking the language placement test and placing at level 2.

2. All teaching-option students must successfully complete a writing course numbered at WRTG-10600 or above.

3. All teaching-option students must successfully complete the second-year review and maintain a minimum 2.75 GPA in their subject. If a student receives an unsuccessful review or a review with stipulations, the student must participate in and successfully pass a second review the following year. Unsuccessful reviews and reviews with stipulations will be accompanied by a written statement outlining what must be done before the second review is completed.

4. Students must earn a grade of B or better in EDUC-30810 and EDUC-31410 to qualify for student teaching. A grade of B- does not qualify.

5. EDUC-49810 Professional Semester in Education and the EDUC-41210 Seminar in Reflective Practice constitute a full course load during the student-teaching semester. No additional courses may be taken.

6. All candidates for initial certification must successfully complete all three sections of the New York State Teacher Certification Examinations: the liberal arts and sciences test, the assessment of teaching skills-written, and the content area exam.

7. The student’s department chair and the coordinator of teacher education must approve any exceptions to the above requirements.

#### Electives 42

| Total, B.A. in art education | 120 |

### Minor in Art

**Requirements for the minor in art — Select two of the following:**

**ART-12000** Two-Dimensional Design  
**ART-12100** Three-Dimensional Design  
**ART-13000** Introduction to Drawing  
**ART-14000** Introduction to Painting  
**ART-15000** Introduction to Sculpture  
**ART-15400** Printmaking — Intaglio/Relief  

### ART COURSES

#### Studio Courses

Studio courses are arranged to give students twice as many studio hours as credits.

**ART-12000** Two-Dimensional Design  
**ART-12100** Three-Dimensional Design  

### ART-13000** Introduction to Drawing  
**ART-14000** Introduction to Painting  
**ART-15000** Introduction to Sculpture  
**ART-15400** Printmaking — Intaglio/Relief  

A faculty adviser will be appointed for each student taking a minor in art.
ART-39900 Independent Study  
Advanced projects under specifically directed tutelage. Projects to be arranged between instructor and students. Offered on demand only. Prerequisites: Introductory courses or permission of instructor. 1–4 credits.

ART-49000, ART-49100 Senior Project  
A directed project under advisement of the faculty in the student’s major area (painting, printmaking, or sculpture). The aim is to develop a body of work demonstrating creative initiative. Must be taken for two semesters. Required of B.F.A. art majors. Prerequisites: Completion of 23 credits in art; senior standing; permission of instructor. 3 credits. (F–S, Y)

ART-49500 Art Internship  
An opportunity for students to gain practical experience in a variety of art-related activities that are directly involved in the creation of visual art. A faculty member from the art department as well as a mentor from the sponsoring agency supervises the internship. Internships are arranged on an individual basis and must be approved by the chair of the art department. Prerequisites: Permission of instructor/mentor; three art courses; junior or senior standing. 1–4 credits. (IRR)

ART-49900 Independent Study  
Advanced projects for seniors under specifically directed tutelage. Projects to be arranged between instructor and student. Offered on demand only. Prerequisites: Introductory courses or permission of instructor. 1–4 credits.

ART HISTORY

Bachelor of Arts

Gary Wells, Associate Professor and Chair

The Department of Art History believes in the importance of visual knowledge and visual experience as a means to historical awareness and cultural literacy. The program in art history is designed to develop both specific areas of knowledge about the style, meaning, history, and context of art, and a broader foundation of reasoning, analytical thinking, and critical written and verbal communication. Courses in the department offer a variety of approaches to art history, including the study of thematic development, theory and criticism, and media and techniques.

The study of the history of art will serve several objectives:

1. Sharpen students’ ability to perceive and understand visual images in a world where ideas and information are increasingly communicated through visual media.
2. Deepen students’ understanding of history in general. Because visual artifacts eloquently express cultural values, students will learn to analyze works of art as carriers of political, social, and religious meanings.
3. Enrich students’ lives by opening the door to a lifetime of aesthetic enjoyment, intellectual stimulation, and creative inspiration.

The major curriculum will prepare students interested in pursuing a career in the arts or further study at a graduate level in the humanities. The major will also appeal to students who wish to study visual culture, human expression, or ideas through history. The minor in art history complements studies in studio art, photography and cinema, communications, literature, cultures, and languages.

Requirements for Honors in Art History

The honors program in art history offers stimulating, advanced undergraduate training for art history majors who show particular promise in the field. Students interested in entering the program should apply to the chair of the department during their junior year. After consultation with other faculty members and evaluation of the student’s ability to meet the requirements outlined below, the chair will give written notification of acceptance to the program.

Upon acceptance, the student agree to do a 3-credit honors tutorial or honors independent study course during the fall semester of the senior year, under the guidance of one or more art history faculty members. (The honors course must be completed during the fall semester so that the decision regarding honors can be made in time to be included in graduation announcements.) Research done in this course culminates in an honors thesis, which is evaluated and graded by the faculty members who have agreed to work with the student. Honors are granted only to those students who receive a B or better on this project.

Students interested in applying for honors in art history must meet the following requirements:

1. An overall GPA of 3.00 and a 3.30 average in art history courses.
2. Proficiency in at least one foreign language. The student must have completed two years of a foreign language with grades of B- or better, or must pass a proficiency exam.
3. Approval by the department faculty. The decision is based on the faculty’s judgment of the student’s preparation and motivation to do independent research, and the availability of one or more members of the faculty to work with the student.

Requirements for the Major in Art History — B.A.

Levels in the major

• No more than four courses at level 1
• A minimum of two courses at level 3, and at least six additional credits at level 3 or above

Foundational courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTH-20100</td>
<td>Practicing Art History</td>
<td>3</td>
</tr>
</tbody>
</table>

Select two of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTH-11100</td>
<td>Episodes in Western art [3]</td>
<td>3</td>
</tr>
<tr>
<td>ARTH-13500</td>
<td>Introduction to Visual Culture [3]</td>
<td>3</td>
</tr>
<tr>
<td>ARTH-14000</td>
<td>Art across Cultures [3]</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTH-11400</td>
<td>Architecture across Cultures [3]</td>
<td>3</td>
</tr>
</tbody>
</table>

Total, foundational courses | 12 |

Art history electives

Of these 24 credits:

• A minimum of one course focusing on art, visual culture, or architecture before 1400,
• A minimum of one course focusing on art, visual culture, or architecture from 1400 to 1750, and
• A minimum of one course focusing on art, visual culture, or architecture after 1750.

If a course satisfies one of these chronological requirements, it will be indicated in the course’s catalog description.

Senior experience

Choose one of the following, to be completed in the senior year or during the summer preceding the senior year (or as approved by the department chair):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTH-49000</td>
<td>Seminar [3]</td>
<td>3</td>
</tr>
<tr>
<td>ARTH-49200</td>
<td>Tutorial [3]</td>
<td>3</td>
</tr>
<tr>
<td>ARTH-49600</td>
<td>Senior Internship [3]</td>
<td>3</td>
</tr>
<tr>
<td>ARTH-49700</td>
<td>Independent Study for department honors thesis only [3]</td>
<td>3</td>
</tr>
</tbody>
</table>

Total, art history electives | 39 |

 Majors who meet the prerequisite may take a seminar, tutorial, internship, or independent study before the summer preceding their senior year, but it will not count toward the “senior experience requirement.” Majors must indicate their senior-year activities before the end of the second semester of their junior year by submitting a “senior experience plan form” (available from the department chair).

Courses outside the major

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art</td>
<td>Any course in the art department (CNPH-14100 Introduction to Photography may be used as a substitute for a course in the art department.)</td>
</tr>
<tr>
<td>Language</td>
<td>All art history majors are required to complete a foreign language through level-2 in the Department of Modern Languages and Literatures, or demonstrate equivalent proficiency as part of their major requirements.</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
</tr>
<tr>
<td>Total, B.A. in art history</td>
<td></td>
</tr>
</tbody>
</table>
Architecture Concentration
In addition to fulfilling core requirements for the major, art history students may elect to complete a concentration in architecture. The concentration is designed to lay the groundwork for professional training in architectural design, historic preservation, urban design, and city planning. The concentration also complements the broad coverage of the major requirements by providing interested students with in-depth exposure to architectural history and theory.

The concentration consists of 21 credits of coursework chosen as indicated below. Courses within the concentration may be used to satisfy the “senior experience” requirements of the major, and may also count toward the electives required within the major. Students interested in pursuing graduate degrees in architectural design are encouraged to consult the department for a list of recommended courses in studio art, mathematics, computer science, and physics.

Requirements for the Major in Art History with a Concentration in Architecture — B.A.

Levels in the major
• No more than four courses at level 1
• A minimum of four courses at level 3, and at least six additional credits at level 3 or above

Foundational courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTH-11300</td>
<td>Elements of Architecture</td>
<td>3</td>
</tr>
<tr>
<td>ARTH-11400</td>
<td>Architecture across Cultures</td>
<td>3</td>
</tr>
<tr>
<td>ARTH-20100</td>
<td>Practicing Art History</td>
<td>3</td>
</tr>
<tr>
<td>ARTH-11100</td>
<td>Episodes in Western Art (3) OR</td>
<td>3</td>
</tr>
<tr>
<td>ARTH-13500</td>
<td>Introduction to Visual Culture (3) OR</td>
<td>3</td>
</tr>
<tr>
<td>ARTH-16000</td>
<td>Art across Cultures (3)</td>
<td>3</td>
</tr>
</tbody>
</table>

Total, foundation courses 12

Art history restricted electives

A minimum of 12 credits selected from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTH-20900</td>
<td>Introduction to the Roman World (3)</td>
<td>3</td>
</tr>
<tr>
<td>ARTH-22200</td>
<td>Architecture from Catacombs to Cathedrals (3)</td>
<td>3</td>
</tr>
<tr>
<td>ARTH-23200</td>
<td>Architecture from Renaissance to Revolution (3)</td>
<td>3</td>
</tr>
<tr>
<td>ARTH-23300</td>
<td>Great Spaces: An Introduction to Urban Design (3)</td>
<td>3</td>
</tr>
<tr>
<td>ARTH-24000</td>
<td>Nineteenth- and Twentieth-Century Architecture (3)</td>
<td>3</td>
</tr>
<tr>
<td>ARTH-31800</td>
<td>Memorable Cities (3)</td>
<td>3</td>
</tr>
<tr>
<td>ARTH-35800</td>
<td>Form, Function, and Fantasy: Architecture since 1945 (3)</td>
<td>3</td>
</tr>
<tr>
<td>ARTH-38000</td>
<td>Studies in Architectural History and Theory (3)</td>
<td>3</td>
</tr>
</tbody>
</table>

Total, art history restricted electives 12

Art history free electives

Students are required to complete an additional 12 credits of free electives in the Department of Art History.

Total, art history free electives 12

These 24 art history elective credits must include the following:

• A minimum of one course focusing on art, visual culture, or architecture before the year 1400,
• A minimum of one course focusing on art, visual culture, or architecture from the years 1400 to 1750, and
• A minimum of one course focusing on art, visual culture, or architecture after the year 1750.

If a course satisfies one of these chronological requirements, it will be indicated in the course’s catalog description. CNPH-24000 History of Photography may be substituted for one of the art history electives.

Senior experience

Choose one of the following, to be completed in the senior year or during the summer preceding the senior year (or as approved by the department chair):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTH-49000</td>
<td>Seminar: Architecture Topic (3)</td>
<td>3</td>
</tr>
<tr>
<td>ARTH-49200</td>
<td>Tutorial: Architecture Topic (3)</td>
<td>3</td>
</tr>
<tr>
<td>ARTH-49600</td>
<td>Senior Internship: Architecture Focus (3)</td>
<td>3</td>
</tr>
<tr>
<td>ARTH-49700</td>
<td>Independent Study: Architecture topic — for department honors thesis only (3)</td>
<td>3</td>
</tr>
</tbody>
</table>

Total, senior experience 3

Majors who meet the prerequisites may take a seminar, tutorial, internship, or independent study before the summer preceding their senior year, but it will not count toward the “senior experience” requirement. Majors must indicate their senior-year activities before the end of the second semester of their junior year by submitting a “senior experience plan form” (available from the department chair).

Total, credits in art history 39

Courses outside the major

Art

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTH-11100</td>
<td>Episodes in Western Art</td>
<td>3</td>
</tr>
<tr>
<td>ARTH-13500</td>
<td>Introduction to Visual Culture</td>
<td>3</td>
</tr>
</tbody>
</table>

Total, courses outside the major 3-15

Electives 66-78

Total, B.A. in art history with architecture concentration 120

Minor in Art History

Eighteen credits in art history courses, with no more than 6 credits in level-1 courses and at least 3 credits in courses at level 3 or above. Internships or independent studies may not count toward the requirement of at least 3 credits in courses at level 3 or above. Three credits of one of the following may be substituted for 3 credits of art history: any course in the art department (except in the case of art majors), and CNPH-24000 History of Photography or CNPH-14100 Introduction to Photography (except for majors in the Department of Cinema and Photography).

ART HISTORY COURSES

ARTH-11100  Episodes in Western Art
HU LA 3b, g, h

An introduction to art history through close examination of selected works and themes from prehistory to the present. The chosen topics, primarily based on painting and sculpture from the western tradition, will be discussed from a variety of perspectives, including style, artists’ techniques and materials, potential meanings, and historical context. The course is designed to familiarize students with key terms and skills employed by art historians, as well as conventions and institutions associated with Western art. The course will offer a broad history of art, while simultaneously raising questions about the sources and authority of that history. Not open to seniors. 3 credits. (Y)

ARTH-11300  The Elements of Architecture
FA LA 3b

A primer on the topic of architecture and architectural history. Acquaints students with the art of making buildings through a discussion of a variety of topics, among them materials, structure, mechanics, space, and light. Architectural theory is also introduced, from the ideas of Vitruvius through some of the more provocative pronouncements of Venturi. Students will learn to consider the activity surrounding the creation of architecture, including the interaction of architects, clients, builders, and even the natural forces that act upon buildings. Features architectural vocabulary, mastery of which is necessary for the analysis and understanding of architectural forms. Not open to seniors. 3 credits. (F, Y)

ARTH-11400  Architecture across Cultures
FA LA 3b, g, h

An investigation of world architecture, organized by architectural type. Examining such topics as spaces of dwelling, worship, and commerce comparatively across time and place sheds light on the ways in which cultural values and identities are shaped and expressed in architectural form. Students study architectural variety across cultures as an expression of historical, material, and cultural difference, and shared traits between cultures as responses to universal social needs, structural possibilities, and spatial strategies. Not open to seniors. 3 credits. (F or SY)

ARTH-12500  Selected Topics in Art History
FA/HU LA 3b, g, h

Introduction to the discipline of art history by a review of major categories of art (i.e., portraiture, landscape, genre, still-life, narrative painting, abstraction, representation, sculpture, architecture) within the context of a single theme or period. Not open to seniors. 3 credits. (IRR)

ARTH-13500  Introduction to Visual Culture
HU LA 3b, g, h

An examination of the crucial roles that images and objects play in shaping our society. The course covers the larger culture of visual images, including art, print media, film, photography, and electronic media, and focuses on how images define, shape, and communicate beliefs and behaviors in a variety of contexts. The course emphasizes developing a sense of “visual literacy,” and
ARTH-20100 Practicing Art History

Designed to develop skills necessary for critical reading of art historical texts and for recognizing and using a variety of art historical methods. An overview of the history of art history. Presentations by department faculty on individual research practices and methods will be additional components. Among the types of art historical writing that are included are formal analysis, iconography, biography, psychoanalytic interpretation, Marxist and feminist art history, and semiotics. Intended for art history majors; open to nonmajors on a space-available basis. Prerequisites for art history majors: One course in the humanities or fine arts. Prerequisites for others: One course in the humanities or fine arts; permission of instructor; sophomore standing. 3 credits. (F,Y)

ARTH-20200 Body Language

An examination of the human body as a form of visual expression in Western culture. Considers, feature by feature, standards that traditionally have been used to distinguish what is beautiful (or good) from what has been designated as ugly (or bad). Students then investigate how standards have been used to develop potent visual stereotypes that distinguish sex, age, race, and class, and consider contemporary images that affirm or challenge these stereotypes. Visual material includes both traditional art and images from popular culture. Prerequisites: One course in art history, or sophomore standing and one course in the humanities or fine arts. 3 credits. (S,Y)

ARTH-20300 Egypt and Its Neighbors

Survey of the art of the Egyptians, Mesopotamians, Minoans, and Mycenaeans to gain an understanding of these cultures and to see what cross-cultural influences existed among them. Covers the beginning of historical times — ca. 3000 B.C. — to about 1200 B.C. in the Aegean and 600 B.C. in Mesopotamia. Satisfies the "art, visual culture, or architecture before 1400" requirement in the major. Prerequisites: One course in the humanities or fine arts. 3 credits. (rir)

ARTH-20800 Mythology and Art

Introduces students to the myths of ancient Greece and Rome through works of art that have illustrated these stories over the last 2,500 years. Using painting, sculpture, prints, drawings, book illustrations, decorative arts, and films, we study the ways that artists have represented, interpreted, and even transformed myths over time. The course is organized around specific myths, allowing us to trace a single motif through the hands of many illustrators. Prerequisites: One course in the humanities or fine arts. 3 credits. (rir)

ARTH-20900 Introduction to the Roman World

Explores the many facets of Roman life as revealed through material culture; the arts (painting, sculpture, architecture, mosaics, pottery, metalwork); and the archaeological remains that shed light on the way Romans conducted their everyday lives. This is a thematic, rather than chronological, course. Satisfies the "art, visual culture, or architecture before 1400" requirement in the major. Prerequisites: One course in the humanities or fine arts. 3 credits. (rir)

ARTH-21500 The Power of the Print

Addresses the ways in which the printed image, sometimes in conjunction with written text, has attempted to influence the way people think and act. Through the different print media, ranging from woodcuts to silk screens, anonymous artists and great masters alike have made prints packed with powerful messages. We study the way in which print succeeded in carrying those messages, whether religious, military, political, or social. Prerequisites: One course in the humanities or fine arts. 3 credits. (rir)

ARTH-21700 British Art and Architecture I: 1066–1660

Studies of selected works of visual art from major periods in British history, to include British architecture, painting, costume, and design and their relationships to the societies that produced them. Includes survey of Roman, Saxon, and Celtic Britain. Visits to museums and field trips. Offered only through the London Center. Prerequisites: Three courses in the humanities and/or fine arts. 3 credits. (F,Y)

ARTH-21800 British Art and Architecture II: 1660–1914

A study of selected works of visual art from recent periods in Britain's history and their relationship to the societies that produced them. Analysis of various styles in painting, architecture, costume, and ornament. Visits to museums and field trips. Offered only through the London Center. Prerequisites: Three courses in the humanities and/or fine arts. 3 credits. (s,y)

ARTH-21900 Arts of Antiquity: Greece and Rome

An exploration of European architecture from the 15th to the 18th centuries, with special emphasis on the development of landscape painting and portraiture. Prerequisites: One course in art history, or sophomore standing and one course in the humanities or fine arts. 3 credits (rir)

ARTH-22200 Architecture from Catacombs to Cathedrals

A thematic and chronological exploration of painting, print making, and sculpture of northern Europe from the late 14th century through the mid-16th century. Explores such topics as the nature of realism in French panel painting; the physical production and marketing of northern European artworks; the persuasive and subversive impact of printmaking; the effect of the Reformation upon image making; and the development of landscape painting and portraiture. Prerequisites: One course in art history, or sophomore standing and one course in the humanities or fine arts. 3 credits. (rir)

ARTH-23000 Italian Renaissance Art

Painting, sculpture, and architecture of the 14th through 16th centuries in Italy. Satisfies the "art, visual culture, or architecture before 1400" requirement in the major. Prerequisites: One course in the humanities or fine arts. 3 credits. (rir)

ARTH-23100 Northern Renaissance Art

A thematic and chronological exploration of painting, printmaking, and sculpture of northern Europe from the late 14th century through the mid-16th century. Explores such topics as the nature of realism in French panel painting; the physical production and marketing of northern European artworks; the persuasive and subversive impact of printmaking; the effect of the Reformation upon image making; and the development of landscape painting and portraiture. Prerequisites: One course in art history, or sophomore standing and one course in the humanities or fine arts. 3 credits. (rir)

ARTH-23200 Architecture from Renaissance to Revolution

An exploration of European architecture from the 15th to the 18th centuries, focusing on issues of form, space, structure, and meaning. The course begins and ends with "rebirths" of antiquity, considering in between architectural ideas that seem to stray as far as possible from the classical tradition. Concepts such as Renaissance, baroque, rococo, and neoclassical are examined, as are relevant political and religious circumstances. Satisfies the "art, visual culture, or architecture from the years 1400 to 1750" requirement in the major. Prerequisites: One course in art history, or sophomore standing and one course in the humanities or fine arts. 3 credits. (rir)

ARTH-23300 Great Spaces: An Introduction to Urban Design

Introduction to the history of open space design, with an emphasis placed on the city. Examination of the principles that generate successful spaces at several scales, from pocket parks and public squares to monumental sites and ideal cities. Analysis of the cultural meaning embedded in urban space. Regions covered include Western Europe and Russia, the Americas, and Asia. Chronological scope ranges from ancient to contemporary. Prerequisites: One course in the humanities or fine arts. 3 credits. (s,y)

ARTH-23400 Baroque Art

Major developments in 17th-century painting and sculpture, especially in Italy, Holland, and Flanders. Caravaggio, Bernini, Vermeer, Rembrandt, and Rubens are included. Satisfies the "art, visual culture, or architecture from the years 1400 to 1750" requirement in the major. Prerequisites: One course in the humanities or fine arts. 3 credits. (s,y)
ARTH-24000 Nineteenth- and Twentieth-Century Architecture  
FA LA 3b, h  
A historical survey of significant architects and their works, from the 19th century to the present. Includes a discussion of aspects of style, design theory, technological developments, and architectural vocabulary. Emphasizes the role of the architect in modern society. Satisfies the "art, visual culture, or architecture after the year 1750" requirement in the major. Prerequisites: One course in art history, or sophomore standing and one course in the humanities or fine arts. 3 credits. (IRR)

ARTH-25100 Nineteenth-Century European Art  
HU LA 3b, g  
Major styles of 19th-century painting and sculpture, especially in France but also in Spain, England, and Germany. Neoclassicism, romanticism, realism, impressionism, and postimpressionism are covered. Satisfies the "art, visual culture, or architecture after the year 1750" requirement in the major. Prerequisites: One course in the humanities or fine arts. 3 credits. (F, Y)

ARTH-25200 Twentieth-Century European Art  
HU LA 3b, g, h  
Study of leading European painters and sculptors of the 20th century. Major movements from fauvism and expressionism through cubism, futurism, dadaism, and surrealism. Includes Rouault, Munch, Nolde, Kokoschka, Klee, Kandinsky, Matisse, Picasso, Boccioni, Mondrian, Tatin, Duchamp, DeChirico, and Miró. Satisfies the art, visual culture, or architecture after the year 1750 requirement in the major. Prerequisites: One course in the humanities or fine arts. 3 credits. (F, Y)

ARTH-26000 Pre-Columbian Art  
HU LA 3b, g, h  
Introduces students to arts produced in Mesoamerica and the Andes up to the time of contact with European cultures. Discusses artworks, monuments, and objects associated with many of the major cultures of these regions, including: Olmec, Teotihuacán, Maya, Aztec, Chavín, Moche, Paracas, Nazca, Wari, and Inca. Organized chronologically within each major region. Emphasizes the range of approaches used in the study of art and art history. Satisfies the "art, visual culture, or architecture after the year 1750" requirement in the major. Prerequisites: One course in art history, or sophomore standing and one course in the humanities or fine arts. 3 credits. (F or S, Y)

ARTH-26500 Modern Latin American Art  
HU LA 3b, g, h  
Explores artistic production in Latin America from the independence period (19th century) through the 20th century, and identifies competing definitions of what it means to be "modern" and "Latin American." Major themes include artistic contributions to the creation of national identity; Latin American artists' negotiation of European, indigenous, and African traditions; the rise of internationalism and the art market; and the relationship between art, politics, social activism, and resistance. Addresses the following major artistic trends, among others: the academic tradition, modernismo, the Mexican mural movement, indigenismo, surrealism, constructive universalism, abstraction, conceptual art, and postmodernism. Satisfies the "art, visual culture, or architecture after the year 1750" requirement in the major. Prerequisites: One course in art history, or sophomore standing and one course in the humanities or fine arts. 3 credits. (F or S, Y)

ARTH-26800 Introduction to Japanese Culture  
HU LA 1, g, h  
This interdisciplinary, team-taught introduction to the history and culture of Japan incorporates history, art, literature, geography, religion, and contemporary affairs to create an understanding of Japan from its origins to the present. Students may not earn credit for both ARTH-26800 and HIST-26800. Prerequisites: One course in the fine arts, humanities, or social sciences; sophomore standing. 3 credits. (O)

ARTH-27500 Selected Topics in Art History  
FA/HU LA 3b, g, h  
This course may be repeated for credit for selected topics on different subjects. Prerequisites: One course in the humanities or fine arts. 3 credits. (IRR)

ARTH-28300 American Visual Culture: 1690–1960  
HU LA 3b, h  
Relates the images and objects made by and for Americans to the society that produced them. Organized in a thematic fashion around topics such as democracy, colonialism, progress, materialism, and pop culture. Traditional "art historical" media (painting, sculpture, architecture, and graphic arts) are joined by vernacular building, industrial design, costume, advertising, film, photography, and television to create a fuller picture of American life and culture over three centuries. Satisfies the "art, visual culture, or architecture after the year 1750" requirement in the major. Prerequisites: One course in art history, or sophomore standing and one course in the humanities or fine arts. 3 credits. (S, Y)

ARTH-28500 Art since 1960  
HU LA 3b, g  
Critically explores various avant-garde strategies used since 1960, when artists' practices radically changed. At that time, different working methods combining different media — and challenging long-held notions of art, artists, society, and even reality — were introduced. The question, But is it art? is one of the central issues we'll debate. Focus on the so-called failure of modernist art, and how postmodernist, postcolonialist, and postfeminist issues define artistic practice today. Satisfies the "art, visual culture, or architecture after the year 1750" requirement in the major. Prerequisites: One course in the humanities or fine arts. 3 credits. (IRR)

ARTH-30600 The Romantic Movement in British Art and Architecture  
FA LA  
A study of the romantic movement in British art and architecture, 1790–1837. The course includes an analysis of the period's styles in painting and architecture, of the ideas that inspired them, and of the society that produced them. Emphasis is placed on first hand study of buildings and works of art. Visits to galleries and museums; field trips. Offered only through the London Center. Prerequisites: One course in art history; two additional courses in the humanities and/or fine arts; sophomore standing or above. 3 credits. (S, Y)

ARTH-30700 Victorian Art and Society  
HU LA  
A study of painting, costume, furniture, and monuments in terms of artistic and social value. Field trips and visits to museums and galleries. Offered only through the London Center. Prerequisites: Three courses in the humanities and/or fine arts; sophomore standing or above. 3 credits. (IRR)

ARTH-31800 Memorable Cities  
FA LA  
An investigation of the architecture and urban design of cities distinguished by their physical beauty or by their status as political, religious, or cultural capitals (e.g., Paris, Rome, Moscow, St. Petersburg, New York, Washington, Los Angeles, Tokyo, Kyoto). The objectives of the course are twofold: (1) to explore the components of successful city design by analyzing architectural ensembles and urban patterns, and (2) to analyze the ways in which political and cultural values are expressed in urban form. Prerequisites: Three courses in the humanities and/or fine arts; sophomore standing or above. 3 credits. (O)

ARTH-32000 Sculpture at First Hand  
FA LA  
An issues-oriented course dealing with actual sculpture on the Ithaca College and Cornell campuses. Discussions center on controversial issues, such as the public funding of outdoor sculpture, originals versus copies, and restoration and preservation. The course also addresses technical problems and historical issues. Prerequisites: Three courses in the humanities and/or fine arts, including at least one art history course; sophomore standing or above. 3 credits. (IRR)

ARTH-33100 Studies in Art from Ancient to Renaissance  
FA/HU LA  
Advanced studies of focused issues in the history of ancient, medieval, or Renaissance art. Specific course topics vary. May be repeated for credit for different topics. Prerequisites: Three courses in the fine arts or humanities, including at least one art history course; sophomore standing or above. Further prerequisites may be added according to the topic. 3 credits. (O)

ARTH-33600 Late Renaissance Art in Italy  
HU LA  
A study of the painting and sculpture of Leonardo, Michelangelo, Raphael, Titian, and other Italian artists of the 16th century. High Renaissance, mannerism, and the golden age of Venice are discussed as concepts, and works are considered in a cultural context. Prerequisites: Three courses in the humanities and/or fine arts, including one art history course; sophomore standing or above. 3 credits. (IRR)

ARTH-34100 Women Artists and Cultural Change  
HU LA  
A survey of women artists working from the Renaissance to the present with an emphasis placed on the interconnections between feminism and women's art. Prerequisites: Three courses in the humanities and/or fine arts; sophomore standing or above. 3 credits. (IRR)

ARTH-34200 Images of Women in Western Art  
HU LA  
An examination of women as subject matter in Western art and the cultural attitudes that various images of women reflect. Goddesses, saints, witches, queens, prostitutes, and mothers are among the topics of discussion. Prerequisites: Three courses in the humanities and/or fine arts; sophomore standing or above. 3 credits. (O)

ARTH-35000 Studies in Art from Baroque to Modern  
FA/HU LA  
Advanced studies of focused issues in art from the period between the 17th century and the present. Specific course topic varies. May be repeated for credit for different topics. Prerequisites: Three courses in the fine arts or humanities, including at least one art history course; sophomore standing or above. Further prerequisites may be added according to topic. 3 credits. (IRR)
ARTH-35800  Form, Function, and Fantasy: Architecture since 1945  HU LA
The decades since World War II have been a time of extraordinary freedom and exploration in architecture and the most intense period of building in the history of the planet. In what direction is architecture headed? This course considers this question and related issues by examining recent and current architecture of Europe, the Western hemisphere, and the Far East. Prerequisites: Three courses in the fine arts or humanities, including at least one art history course; sophomore standing or above. 3 credits. (IRR)

ARTH-37500  Selected Topics in Art History  FA/HU LA
This course may be repeated for credit for different selected topics. Prerequisites: Three courses in the humanities and/or fine arts; sophomore standing or above. 3 credits. (IRR)

ARTH-38000  Studies in Architectural History and Theory  FA/HU LA
Advanced studies of focused issues in the history of architecture and architectural theory. Specific course topics vary. May be repeated for credit for different topics. Prerequisites: Three courses in the fine arts or humanities, including at least one art history course; sophomore standing or above. Further prerequisites may be added according to the topic. 3 credits. (IRR)

ARTH-38100  Art and Architecture of Washington, D.C.  FA LA
Examines the art and architecture of Washington, D.C., and its major institutions. Emphasizes understanding the architecture and art of the capital city as expressions of the political, social, and moral values of the nation and of Western culture in general. Lectures and related class tours explore three major categories of Washington's visual cultural environment: museum highlights; public sculpture, monuments, and memorials; and architecture. Assignments encourage the study of various objects and sites from a critical perspective and give each student the opportunity to conduct primary research at select Washington libraries and archives. Offered only through the Washington Semester Program. Prerequisites: Three courses in the humanities and/or fine arts; sophomore standing or above. 3 credits. (F-S, Y)

ARTH-39000  Introduction to Museology  FA LA
Critically examines the significance of museological practice today; explores different museological strategies in conjunction with the history of collecting and exhibiting; and examines the limitations on what can be exhibited in a museum. Whether museums operate as homogenizing institutions is also addressed. In addition, in collaboration with the Handwerker Gallery, incorporates a practical component to introduce students to museographical ideas. Prerequisites: Three courses in art history; sophomore standing or above. 3 credits. (F-S, Y)

ARTH-49200  Tutorial in Art History  FA/HU LA
Discussion and research-based study on a focused topic in small group setting under faculty guidance. Availability of specific tutorial topics and faculty to be determined in advance of registration. Prerequisites: Art history major with senior standing or permission of the department chair; permission of instructor. 3 credits. (F-S, Y)

ARTH-49300  Seminar in Art History  FA/HU LA
A central topic with class discussion, individual research, and presentation of papers as major parts of the course. This course may be repeated for credit for seminar topics on different subjects. 3 credits. (F-S, Y)

ARTH-49400  Internship  NLA
The internship provides an opportunity to gain practical experience working in a gallery or museum, under the joint supervision of a member of the museum staff and an Ithaca College faculty member. Internships are arranged individually by the student and are subject to the availability of an appropriate internship position. Prerequisites: Art history major with senior standing or permission of the department chair; permission of instructor. 3–4 credits. (Y)

ARTH-49700  Independent Study  FA/HU LA
Program of special reading and research under the supervision of a specialist in art history. Offered only on demand and by special permission. 1–4 credits. (IRR)

BIOCHEMISTRY

Bachelor of Arts — Joint major, biology and chemistry departments

The biochemistry major provides a strong foundation for work at the graduate level, either directly in biochemistry or in related areas, or for immediate entrance into a career in business or industry. Biochemistry is a fundamental part of the emerging agritech industry, as well as many more traditional fields such as food sciences, pharmaceuticals, biological analysis, and specialty chemicals. Many medical problems are of a biochemical nature. This curriculum combines, in an integrated whole, those areas of biology, chemistry, and related sciences that are important in this emerging field. Specific biochemistry coursework completes the program, preparing students for their chosen careers.

Requirements for the Major in Biochemistry — B.A.

(No new students admitted)

Credits in the major

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<td>Biology BIOL-12100, BIOL-12200, BIOL-32700, BIOL-34500 or BIOL-45200 or BIOL-45400 or BIOL-47300</td>
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<tr>
<td>Chemistry CHEM-12100 or CHEM-12300, CHEM-12400, CHEM-22100, CHEM-22200, CHEM-22500, CHEM-32400, CHEM-33100, Biochemistry BIOL-35300, BIOL-35400, BIOL-48100</td>
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<td>Physics PHYS-11700, PHYS-11800, PHYS-12000 or PHYS-10100, PHYS-10200</td>
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<td>Mathematics MATH-10800 or MATH-11100, MATH-11200 or MATH-24400</td>
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<td>Electives</td>
<td>52–53</td>
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<td>Total, B.A. in biochemistry</td>
<td>120</td>
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MATH-24399 Statistics, CHEM-34200 Inorganic Chemistry, CHEM-35200 Computer Techniques for Scientists, and biochemistry, biology, or chemistry research are recommended but not required.

Requirements for the Major in Biochemistry — B.S.

Credits in the major

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<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<td>Biology [BIOL-12100, BIOL-12200, BIOL-22700, BIOL-35400]</td>
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<td>Chemistry [CHEM-12100 or CHEM-12300, CHEM-12400, CHEM-22100, CHEM-22200, CHEM-22500, CHEM-32400, CHEM-33100], Biochemistry [BIOL-35300, BIOL-35400, BIOL-48100]</td>
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<td>Biology or chemistry [BIOL-35100 or BIOL-35400 or BIOL-37600 or BIOL-37800 or BIOL-45200 or BIOL-47300 or CHEM-22600 or CHEM-33200 or CHEM-34200 or CHEM-35600 or CHEM-42100]</td>
<td>9</td>
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<tr>
<td>Physics [PHYS-11700, PHYS-11800, PHYS-12000 or PHYS-10100, PHYS-10200]</td>
<td>8–9</td>
</tr>
<tr>
<td>Mathematics [MATH-10800 or MATH-11100, MATH-11200 or MATH-24400]</td>
<td>8</td>
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<td>Electives</td>
<td>52–53</td>
</tr>
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<td>Total, B.S. in biochemistry</td>
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</table>

MATH-24300 Statistics, CHEM-34200 Inorganic Chemistry, CHEM-35200 Computer Techniques for Scientists, and biochemistry, biology, or chemistry research are recommended but not required.

Requirements for Honors in Biochemistry

Students must apply for honors to the chairs of biology and chemistry no later than the second week of the senior year. They must have completed at least 3 credits of research at level 3 or above to qualify and must have a minimum overall GPA of 3.00 with a 3.30 average in all chemistry and biology courses.

If the application is approved, students design an honors project in consultation with an adviser from either the biology or chemistry faculty. An honors committee of no fewer than three faculty members, including the adviser, is
selected from both biology and chemistry faculties, with at least one member from each department. The committee reviews the project periodically to monitor the student’s progress.

An honors thesis is to be submitted by the student no later than three weeks before the date of graduation. The honors thesis is evaluated by the honors committee. An oral defense of the thesis, open to faculty and students of both departments, is made before the honors committee. Final approval comes from consultation of the honors committee and the chairs of biology and chemistry.

**BIOCHEMISTRY COURSES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
<th>Notes</th>
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<td>BIOC-19100</td>
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<td>Biochemistry III</td>
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</table>

**Biology-Optometry 3-1 Program**

This joint program with an optometry college (see p. 116) is available to biology majors and enables students to enter optometry college after three years of undergraduate study. Ithaca College requirements for graduation, as well as most of the biology requirements, must be fulfilled during the first 90 credits of this program. After acceptance by the optometry college, and upon successful completion of the first year of optometry college, the bachelor’s degree in biology is awarded by Ithaca College. This program must be carefully planned with the student’s adviser.

**Requirements for Honors in Biology**

Students with a minimum GPA in all biology courses of 3.50 and an overall GPA of 3.30 may apply for honors after they have completed BIOL-30200 Research in Biology, but not later than the first two weeks of the senior year. Application must be made to the department curriculum committee for admission to honors. The curriculum committee reviews the qualifications of applicants, certifies that faculty sponsorship has been obtained, and then makes its recommendation to the department. The faculty of the biology department votes on acceptance or rejection of the curriculum committee’s recommendation.

When a student is accepted for honors, an honors committee is formed, consisting of the project director (normally the faculty sponsor) and two other members of the biology department faculty. The student must design an honors project in consultation with a faculty sponsor. The honors committee monitors the progress of the honors project and the academic performance of the student.

The student must write a paper and make an oral presentation by the end of the second semester of the project. After receiving a recommendation from the honors committee, the faculty of the biology department votes on the granting of honors in biology.

A more detailed statement of deadlines and requirements for honors is available from faculty advisers.

**Courses for Nonmajors**

The biology department offers several courses of interest to the nonmajor. These courses have numbers between BIOL-10000 and BIOL-12000.

**Requirements for the Major in Biology — B.A.**

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<tr>
<th>Biology, chemistry, and mathematics</th>
<th>Credits</th>
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<tr>
<td>Three elective courses in biology (one must be at level 3 or level 4)</td>
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</tbody>
</table>

Courses that do not count as biology electives include any courses listed as required; any level-1 courses; BIOL-20500; BIOL-21000; BIOL-40000; BIOL-40100; and BIOL-40200. Biochemistry I and II (BIOC-35300 and BIOC-35400) and BIOC-48100 Special Topics: Biochemistry may count as biology electives.

<table>
<thead>
<tr>
<th>Chemistry</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM-12100 or CHEM-12200, CHEM-12400</td>
<td>17</td>
</tr>
<tr>
<td>CHEM-22100, CHEM-22200, CHEM-22500, CHEM-23200</td>
<td></td>
</tr>
<tr>
<td>Mathematics</td>
<td>Credits</td>
</tr>
<tr>
<td>MATH-11100 or MATH-10800 or MATH-24400</td>
<td>4</td>
</tr>
<tr>
<td>Total, biology, chemistry, and mathematics</td>
<td>57–59</td>
</tr>
</tbody>
</table>

**Outside biology, chemistry, and mathematics**

<table>
<thead>
<tr>
<th>Electives</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>In any area to complete the 120 credits necessary for graduation</td>
<td>25–30</td>
</tr>
<tr>
<td>Total, B.A. in biology</td>
<td>120</td>
</tr>
</tbody>
</table>

**Advanced Placement**

Advanced placement (AP) credit in biology is accepted under the following policy:

1. A student with an AP test score of 5 may receive course-specific credit (e.g., BIOL-11900, BIOL-12000 or BIOL-12100, BIOL-12200) provided there is evidence in the AP course of a laboratory component and a passing score on an exam administered by the department. If a student receives course-specific AP credit, he or she cannot also receive credit for taking the course.
2. A student with an AP test score of 3 or 4 will receive elective credit without particular designation. Students with AP test scores below 3 will not receive credit.

### Requirements for the Major in Biology — B.A. with Teaching Option

#### Biology, chemistry, physics, and mathematics

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL-12100, BIOL-12200, BIOL-22400 or BIOL-47800, BIOL-27100, BIOL-30100, BIOL-30200, BIOL-22700, BIOL-35400, BIOL-41100, BIOL-41200</td>
<td>29</td>
</tr>
</tbody>
</table>

One elective course in biology

Total, biology: 3–4

Courses that do not count as electives include any courses listed as required; any level-1 courses; BIOL-20500; BIOL-21000; BIOL-40000; BIOL-40100; and BIOL-40200. Biochemistry I and II (BIOC-35300 and BIOC-35400) may be used as biology electives, but no other courses in biochemistry may count.

#### Chemistry

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM-12100 or CHEM-12300, CHEM-22100, CHEM-12400</td>
<td>9</td>
</tr>
</tbody>
</table>

#### Physics or chemistry

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS-10100–PHYS-10200 or PHYS-11700, PHYS-11800, PHYS-12000 or CHEM-22200, CHEM-22500, and 304-23200</td>
<td>8–9</td>
</tr>
</tbody>
</table>

#### Mathematics

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH-10800 or MATH-11100 or MATH-11200 or MATH-24400</td>
<td>4</td>
</tr>
</tbody>
</table>

Total, biology, chemistry, physics, and mathematics: 53–55

### Core education requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC-21910 Early Field Experience: Theory and Practice</td>
<td>3</td>
</tr>
<tr>
<td>COMP-20100 Technology for the Middle/Secondary School Teacher</td>
<td>2</td>
</tr>
<tr>
<td>EDUC-10100 Literacy Education for the Middle/Secondary School Teacher</td>
<td>2</td>
</tr>
<tr>
<td>SLPA-22900 Educating Children with Special Needs</td>
<td>2</td>
</tr>
<tr>
<td>SLPA-22900 Second Language Acquisition: Its Nature and Meaning for Educators</td>
<td>2</td>
</tr>
<tr>
<td>PSYC-21010 Educational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-34000 Social and Cultural Foundations of Education</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-30810 Pedagogy and Practice across the Disciplines</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-31010 Pedagogy and Practice for the Science Teacher</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-41210 Seminar in Reflective Practice</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-49810 Professional Semester in Education</td>
<td>12</td>
</tr>
<tr>
<td>EDUC-11000 Child Abuse Identification and Prevention</td>
<td>0</td>
</tr>
<tr>
<td>EDUC-11100 Drug and Alcohol Abuse: Identification and Prevention</td>
<td>0</td>
</tr>
</tbody>
</table>

Total core education requirements: 38

### Additional Requirements

- All teaching-option students must successfully complete a year of college-level study in a language other than English. Students may test out of this requirement by taking the language placement test and placing at level 2.
- All teaching-option students must successfully complete a writing course numbered WRTG-10600 or above.
- All teaching-option students must successfully complete the second year review and maintain a minimum 2.75 GPA in their subject. If a student receives an unsuccessful review or a review with stipulations the student must participate in and successfully pass a second review the following year. Unsuccessful reviews and reviews with stipulations will be accompanied by a written statement outlining what must be done before the second review is completed.
- Students must earn a grade of B or better in EDUC-30810 and EDUC-31010 to qualify for student teaching. A grade of B- does not qualify.
- EDUC-49810 Professional Semester in Education and the EDUC-41210 Seminar in Reflective Practice constitute a full course load during the student-teaching semester. No additional courses may be taken.
- All candidates for initial certification must successfully complete all three sections of the New York State Teacher Certification Examinations: the liberal arts and sciences test, the assessment of teaching skills-written, and the content area exam.

### Electives

- Outside biology, chemistry, physics, and mathematics: 24–29
- To complete humanities and sciences general education requirements: 20

### Requirements for the Major in Biology — B.S.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL-12100 Principles of Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL-12200 Principles of Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL-22700 Genetics</td>
<td>4</td>
</tr>
<tr>
<td>BIOL-27100 General Ecology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL-30100 Literature in Biology</td>
<td>2</td>
</tr>
<tr>
<td>BIOL-30200 Research in Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL-35400 Cell Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL-41100 Biology Seminar</td>
<td>0.5</td>
</tr>
<tr>
<td>BIOL-41200 Biology Seminar</td>
<td>0.5</td>
</tr>
</tbody>
</table>

Total, requirements in the department: 26

### Biology electives

Courses that do not count as biology electives include any courses listed as required; any level-1 course; BIOL-20500; BIOL-21000; BIOL-40000; BIOL-40100; BIOL-40200. Biochemistry I and II (BIOC-35300 and BIOC-35400) and Special Topics: Biochemistry (BIOC-48100) may count as biology electives. Two of the three biology electives must have a lab or discussion component (a fourth hour). One of the three biology electives must be at level 3 or above.

Total, biology electives: 11–12

### Required courses in other departments

#### Chemistry

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM-12100 Principles of Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>CHEM-12400 Experimental Chemistry I</td>
<td>2</td>
</tr>
<tr>
<td>CHEM-21100 Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM-22200 Organic Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM-22500 Experimental Chemistry II</td>
<td>2</td>
</tr>
<tr>
<td>CHEM-23200 Quantitative Chemistry</td>
<td>3</td>
</tr>
</tbody>
</table>

Total, chemistry: 17

#### Physics

Option 1

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS-10100 and PHYS-10200</td>
<td>8</td>
</tr>
</tbody>
</table>

Option 2

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS-11700, PHYS-11800, and PHYS-12000</td>
<td>9</td>
</tr>
</tbody>
</table>

Total, physics: 8–9

#### Mathematics

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH-10800 or MATH-11100</td>
<td>4</td>
</tr>
<tr>
<td>MATH-11200 or MATH-24400</td>
<td>4</td>
</tr>
</tbody>
</table>

Total, mathematics: 8

Total, requirements offered from other departments: 33–34

### Electives

In any area to complete the 120 credits necessary for graduation: 48–50

### Summary

- Required biology courses: 26
- Biology electives: 11–12
- Required courses outside department: 33
- Free electives: 48–50
- Total, B.S. in biology: 120
Minor in Biology
The biology minor program provides an option for nonmajors who wish to take a substantial number of biology courses and receive recognition for their studies.

Requirements for the Minor

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM-11100, CHEM-11200, or CHEM-11700, CHEM-11800</td>
<td>Chemistry</td>
<td>6</td>
</tr>
<tr>
<td>BIOL-12100, BIOL-12200, or BIOL-11900, BIOL-12000</td>
<td>Introductory biology</td>
<td>8</td>
</tr>
<tr>
<td>Level 2 or higher courses in biology (excluding BIOL-20500, BIOL-20000, and BIOL-21000)</td>
<td>Biochemistry</td>
<td>15-16</td>
</tr>
<tr>
<td>I and II (BIOL-35300 and BIOL-35400) may count as biology electives</td>
<td>29-30</td>
<td></td>
</tr>
</tbody>
</table>

Off-Campus Study in Marine Biology
Students can participate in our cooperative programs with the Duke University Marine Lab (North Carolina and Bermuda) or the Sea Education Association of Wood's Hole (with a variety of cruise tracks). For more information on these programs, see “International Programs, National Affiliated Programs in Marine Biology” (p. 265).

BIOLOGY COURSES

BIOL-10210 The Natural History of Sex
An evolutionary analysis of reproductive behavior, taking a comparative approach among animals, including humans, to better understand our own sexuality and behavior in a biological context. Topics include asexual and sexual reproduction; sex determination; genetic and environmental determinants of sexual behavior; male and female tactics; mating systems (monogamy, polyandry, polygyny); conflict of interests between the sexes; courtship displays; mate choice; assuring paternity; and parental care. Lecture/discussion: Three hours. 3 credits. (S,Y)

BIOL-10310 New and Emerging Diseases
Examines the phenomenon of new and emerging diseases and their effects on humans. Topics include the history of emerging or reemerging diseases, epidemics and pandemics, the role of ecological factors in disease emergence, types of infectious agents, their mechanisms of action, and how our immune system responds to infection by these agents. We examine factors — such as antibiotic resistance, population, environmental changes, global travel, autonomic and global warming — that contribute to diseases in the 21st century. We also discuss how political, economic, social, and cultural factors contribute to the emergence of diseases and the response to those diseases. 3 credits. (S,Y)

BIOL-10400 Environmental Biology
Blends general ecological concepts with evaluations of several environmental problems. Topics include the growth and regulation of natural populations compared to human populations; our use and future supplies of energy, from food to nuclear power; and the preservation of wildlfe. The pollution of our environment by human activities is emphasized. Lecture/discussion: Three hours. 3 credits. (F-S,Y)

BIOL-10600 Plants, People, and Food Production
Major emphasis is placed on the structure and function of plants; the relationship between world food supply and the population problem; scientific, social, and economic aspects of food production. 3 credits. (IRR)

BIOL-10700 Human Genetics
Heredity in human families and populations; genetic basis of normal and abnormal traits; chromosome behavior and sex determination. Emphasis is placed on the social, ethical, and political issues in genetics. Lecture/discussion: Three hours. 3 credits. (F,O)

BIOL-10800 The Human Organism
Study of the structure and function of the human body. Primary emphasis is placed on normal body function, with a secondary emphasis placed on common diseases. For non-science majors; cannot be taken by students who have completed BIOL-11200, BIOL-11900, or BIOL-12100. Lecture/discussion: Three hours. 3 credits. (S,E)

BIOL-10900 Life in the Ocean
Study of the diversity of life found in the ocean with special attention to how ocean life impacts and is impacted by humans. Threats to ocean diversity will be looked at from the standpoint of their effects on both individual organisms and various ocean ecosystems. There will be one open lab during the semester. Lecture: Three hours. 3 credits. (F,Y)

BIOL-11200–BIOL-12200 Fundamentals of Biology
A survey of biology for physical and occupational therapy, exercise science, and other health-related majors. The second half meets the biology requirement for environmental studies majors. The first semester covers cell structure, cellular respiration, mitosis and meiosis, genetics, DNA structure and function, and animal physiology. The second semester covers microevolution, macroevolution (patterns of evolution of the kingdoms, of phyla of plants and animals, and of classes of vertebrates), and ecology (general and human) at the level of populations, communities, and ecosystems. Lecture: Three hours. Laboratory: Three hours. 4 credits. (BIOL-11900-F, BIOL-12000-S,Y)

BIOL-11900–BIOL-12000 Principles of Biology
A two-semester lecture—laboratory sequence for biology and other science majors that surveys the field of biology. Major emphasis in the first semester is placed on cellular biology, genetics, development, and the biology of higher animals. The second semester concentrates on the biology of higher plants; a study of the origin, classification, and taxonomic relationships of organisms; evolution; and ecology. Lecture/discussion: Three hours. Laboratory: Three hours. 4 credits. (BIOL-12100-F, BIOL-12200-S,Y)

BIOL-12100–BIOL-12200 Genetics
Focus on the biological principles fundamental to understanding human impact on the environment. Discussion of how human activities modify the environment and how their effects can be reduced through changes in individual and societal behavior. An interdisciplinary approach ties together the political, social, economic, and ethical aspects of environmental studies with biological and chemical principles. 4 credits. (F,Y)

BIOL-20000 Independent Study
For students pursuing special laboratory projects or literature research and for teaching interns (working within the department). Discussion and/or laboratory to fit the student's needs. Course level determined by the intended degree of independence and originality of the student's work and the extent of the student's background courses. Course may be repeated for different projects. Offered on demand only. Prerequisites: Permission of instructor. 1–3 credits.

BIOL-20300 Invertebrate Zoology
The vast majority of species found on earth are invertebrates. These include many species used as "model systems" for developmental and genetic research, most parasites and vectors of disease, and most species studied in marine biology. This course emphasizes a "body plan" approach to studying invertebrates; exploring the different morphological and physiological solutions that the organisms have used to cope with environmental conditions and to accomplish the basic tasks necessary for survival. Evolutionary relationships among invertebrate phyla are examined using recent lines of evidence from developmental biology and molecular biology, as well as comparative morphology. Lab exercises include field trips to collect and study invertebrates of the region. Lecture: Three hours. Laboratory: Three hours. Prerequisites: BIOL-12200 or BIOL-12000. 4 credits. (F,O)

BIOL-20400–BIOL-20409 Selected Topics
Intermediate courses offered at irregular intervals on various topics chosen by faculty members or resulting from student requests. Taught as a regular course with students together attending the same classes and laboratories. Topics include some taught in the past (e.g., histology). This course may be repeated for credit when topics vary. Prerequisites: BIOL-12100–BIOL-12200 or BIOL-11900–BIOL-12000; permission of instructor. 2–4 credits. (IRR)

BIOL-20500 Biology of Aging
Study of theoretical and measured aspects of the aging phenomenon as it influences human biology. Topics range from the subcellular to whole populations. Course may not be used to fulfill requirements in the biology major or minor. Prerequisites: Sophomore standing. 3 credits. (S,Y)
Biology Courses

Biol-20600 Primary Human Anatomy NS LA
A one-semester introduction to human anatomy designed for physical and occupational therapy majors in preparation for cadaver dissection. Lecture topics include anatomical terminology; tissue types; skeletal, muscular, and nervous systems; and regional anatomy. Emphasis in laboratory is placed on bones, muscle attachments, actions and innervations, and dissection skills. Prerequisites: BIOL-11900–BIOL-12000, or BIOL-12100–BIOL-12200. 3 credits. (S, Y)

Biol-20800 Animal Behavior NS LA
Explores the proximate causes and ultimate evolutionary explanations for the behavior of animals. Introduces the study of behavioral ecology by examining basic ecological problems and evaluating the behavioral solutions animals use to solve them. Lecture topics include the development of behavior, control of behavior, communication, adaptive response to predators, adaptive feeding behavior, male and female reproductive tactics, the evolution of mating systems, adaptive tactics of parents, and social behavior. Emphasis in the laboratory is placed on observation and an experimental approach to animal behavior. Lecture: Three hours. Laboratory: Three hours. Prerequisites: BIOL-12200 or BIOL-12000. 4 credits. (S, E)

Biol-21000 Research in Biology U LA
For students who desire research work but have not yet completed BIOL-30200. Prerequisites: One introductory biology course; permission of instructor. May be repeated once for credit. 1–3 credits. (F-S, Y)

Biol-21400 Animal Physiology NS LA
The study of physiological mechanisms, from the molecular and cellular to the organismic level, with an emphasis placed on unique adaptations to environmental stresses. Specific topics include the mechanisms underlying nerve function, movement, circulation, respiration, and endocrine regulation. Lecture: Three hours. Laboratory: Three hours. Prerequisites: BIOL-12100–BIOL-12200, or BIOL-11900–BIOL-12000, or BIOL-15100–BIOL-15200. 4 credits. (F-Y)

Biol-21500 General Botany NS LA
Introduction to the modern field of botany. Topics include an evolutionary survey of plants and fungi, principles of classification, and theories of the evolution and ecology of plants. Laboratories stress the observation of plants in their natural habitats. Lecture: Three hours. Laboratory: Three hours. Prerequisites: BIOL-10100–BIOL-12200, or BIOL-11900–BIOL-12000. 4 credits. (IRR)

Biol-22500 The Power of Plants: Plants in Medicine and Agriculture NS LA
Explores the important roles of plants in modern society and indigenous cultures, with specific focus on plants as sources of medicines and food. Other topics include plant classification; the mechanisms of bioactive plant compounds in humans; the evolution, domestication, and genetic modification of crop plants; plant conservation; and ownership of nature. Lectures include discussions based on readings as well as lectures. Prerequisites: BIOL-11900, BIOL-12000 or BIOL-12100, BIOL-12200 or BIOL-15100, CHEM-11700 for students using the latter two prerequisites, concurrent enrollment in one of the latter courses is allowed allowed. 4 credits. (O, F)

Biol-22700 Genetics NS LA
Principles of heredity; survey of classical genetics, human genetics, modern molecular and microbiological genetics; studies of confidence of analysis of genetic data; and interrelating transcription and translation at the cellular and organismal level. Lecture: Three hours. Laboratory: Three hours. Prerequisites: BIOL-12100–BIOL-12200 or BIOL-11900–BIOL-12000; CHEM-12100 or CHEM-12300; CHEM-12200 or CHEM-12600. 4 credits. (S, Y)

Biol-27100 General Ecology NS LA
Presents the basic concepts of ecology with balanced treatment of plant and animal examples. Topics include the interactions among individuals of a population, interactions in their abiotic environment, and interactions with other species. Also discussed are growth, regulation, diversity, and stability of populations, and the interactions among populations at the community and ecosystems levels. Laboratories include field and laboratory work and statistical analyses of data. Lecture: Three hours. Laboratory: Three hours. Prerequisites: BIOL-12100–BIOL-12200, or BIOL-11900–BIOL-12000, or BIOL-15100–BIOL-15200. 4 credits. (F, Y)

Biol-27500 Field Biology NS LA
Survey of the ecosystems of central New York. Areas of emphasis are direct experience of the diversity of ecosystems and their structure and function; adaptations of organisms to specific ecosystems; recognition of dominant and indicator species; human impact on ecosystem function and species diversity; and the methods used to measure these parameters. Lectures emphasize the unique attributes of different ecosystems and the techniques of data gathering and analysis. Analyses of societal impact and management of ecosystems are included. Lecture: Two hours. Laboratory: Six hours. Prerequisites: BIOL-11900–BIOL-12000, or BIOL-12100–BIOL-12200, or BIOL-15100–BIOL-15200; CHEM-11700 (may be taken concurrently); one of the following: BIOL-12200, BIOL-12100–BIOL-12200, or BIOL-15100–BIOL-15200. 3 credits. (F, O)

Biol-27800 Environmental Health and Medicine NS LA
Discussion of a variety of environmental vectors of disease (air, food, drinking water, and liquid and solid wastes), routes of exposure (occupational, residential, and the unavoidable), physiological effects, and techniques to diagnose, treat, and regulate environmentally induced diseases. Additional topics include recent advances in epidemiology, biological monitoring, and risk assessment. Lecture: Three hours. Prerequisites: BIOL-11900–BIOL-12000, or BIOL-12100–BIOL-12200, or BIOL-15100–BIOL-15200. 3 credits. (F, E)

Biol-28400 Field Ornithology NS LA 2a
Relation between climate, habitat, and regional bird species. Lecture and laboratory in bird anatomy, territoriality, migration, and song. Fieldwork: Saturday morning trips and bird banding. Lecture: Three hours. Laboratory: Three hours. Prerequisites: BIOL-11900–BIOL-12000; BIOL-12100–BIOL-12200, or BIOL-15100–BIOL-15200. 4 credits. (F-E)

Biol-30100 Literature in Biology NS LA
Seminar discussions based on readings and reports in current research literature. This course will discuss how to write and analyze scientific papers. Students will present research articles, critique written and oral presentations, and learn proper format for writing scientific papers. Prerequisites: BIOL-12100–BIOL-12200 or BIOL-11900–BIOL-12000; one other biology course. 2 credits. (F-S, Y)

Biol-30200 Research in Biology NS LA
Research for biology majors. It is recommended that projects be performed during the spring semester of the junior year. Research areas must be selected by midterm of the semester prior to enrollment. Prerequisites: BIOL-11900–BIOL-12000 or BIOL-12100–BIOL-12200; BIOL-30100 (may be taken concurrently); permission of instructor. 3 credits. (F-S, Y)

Biol-30400–CHEM-30409 Selected Topics NS LA
Advanced courses offered at irregular intervals on various topics chosen by faculty members or resulting from student requests. Taught as a regular course with students attending the same classes and laboratories. Topics include some taught in the past (e.g., advanced developmental biology, advanced genetics, and population and ecosystem ecology). May be repeated for credit when topics vary. Prerequisites: Permission of instructor. 1–3 credits. (IRR)

Biol-31500 Neurobiology NS LA
Study of the biology of the nervous system with an emphasis placed on the molecular and cellular mechanisms underlying nerve function. Also considers the function of the nervous system on an organismic level and the underlying causes of nervous system disease. Topics include ion channel function; neurotransmitters in the nervous system; sensory systems; motor systems and response to injury; and learning and memory. Lecture and discussion, with an emphasis placed on reading and analyzing the scientific literature. Prerequisites: BIOL-11900–BIOL-12000, or BIOL-12100–BIOL-12200; PSYC-31100 or one additional biology course. 4 credits. (S, Y)

Biol-32400 Wonderful Life: Genes, Evolution, and Biodiversity NS LA
An overview of evolutionary biology that includes the study of both microevolutionary and macroevolutionary change, as well as the mechanisms of such change, using examples from many types of organisms. Topics include the studies of Charles Darwin, the modern synthesis, natural selection, population and quantitative genetics, analysis of adaptation, and mechanisms of speciation. Lectures are supplemented with outside readings and videos. Prerequisites: BIOL-22700 or BIOL-27100. 3 credits. (F, E)
Biology of embryonic development. The course covers the major features of animal development (both vertebrates and invertebrates). Topics include the morphological features of early development (fertilization, cleavage, gastrulation, establishment of the body plan), cell determination, pattern formation, and the molecular biology of early embryos. The emphasis is placed on the molecular controlling development. Discussion of human reproductive technology (in vitro fertilization, cloning, stem cells), and the impact of development biology on human reproduction. Lecture/discussion: Four hours. Prerequisites: BIOL-22700. 4 credits. (S,Y)

BIOI-35400 Cell Biology

Study of the relationship and unity of structure and function in living cells and cell populations. Emphasis is placed on cell organelles, cell membrane systems, and the functions of cells in cell recognition, cell signaling, regeneration, and malignancy. Prerequisites: BIOL-12100–BIOL-12200 or BIOL-11900–BIOL-12000; CHEM-12100 or CHEM-12200; CHEM-12200 or CHEM-12600; CHEM-22100; CHEM-22200. 4 credits. (F,E, Y)

BIOI-37800 Environmental Toxicology

Environmental toxicology is the study of how chemicals in the environment adversely affect biological systems. This course explores how organisms respond to pollutants at the cellular, tissue, and organismal level. Lecture topics include the bioavailability of pollutants, routes of exposure, modes of action, mechanisms of bioaccumulation, biotransformation, and biodegradation of common pollutants. The laboratory component focuses on experimental design, data analysis, and interpretation of field and laboratory studies. Laboratory topics include the detection of pollutants and their effects on tissues, biomonitoring; toxicity testing; and the use of this information in assessing risk of exposure to toxins. Lecture: Three hours. Laboratory: Three hours. Prerequisites: One of the following course sequences: BIOL-11900–BIOL-12000, or BIOL-12100–BIOL-12200 or BIOL-11900–BIOL-12000; CHEM-12100 or CHEM-12200; CHEM-12200 or CHEM-12600; CHEM-22100; CHEM-22200. 4 credits. (E,Y)

BIOI-40000 Research in Biology

For students desiring further research work beyond level 3. This course may be taken twice for credit. Prerequisites: Permission of instructor. 1–3 credits. (F-S,Y)

BIOI-40100–BIOI-40200 Biology Honors Program

Research and thesis for biology majors pursuing the honors program. It is recommended that the research program begin no later than the end of the junior year and continue to the end of the senior year. Prerequisites: Acceptance into the honors program. 2–3 credits. (F-S,Y)

BIOI-40400 Selected Topics

Advanced courses offered at irregular intervals on various topics chosen by faculty members or resulting from student requests. Taught as a regular course, with students attending together the same classes and laboratories. Topics include some taught in the past, such as Biological Membranes: A Seminar on Structure and Function. This course may be repeated for credit when topics vary. Prerequisites: Permission of instructor. 2–4 credits. (IRR)

BIOI-40500 Parasitology

General survey of parasitism throughout the animal kingdom, with special attention to parasites important to human and veterinary medicine. Topics include systematics, morphology, and life cycles of parasites; coevolution of hosts and their parasites; the use of parasites and parasitoids as biological control agents of pest species; and the influence of parasites on population biology and community structure of host species. Lecture: Three hours. Laboratory: Three hours. Prerequisites: BIOL-12100–BIOL-12200 or BIOL-11900–BIOL-12000, one other course in biology at level 2 or above; BIOI-30100 (may be taken concurrently). 4 credits. (E,F)

BIOI-41100–BIOI-41200 Biology Seminar

Seminars, discussion, and readings in the biological sciences. Required of senior biology majors. 0.5 credit. Pass/Fail only. (BIOI-41100-F, BIOI-41200-S,Y)

BIOI-45200 Microbiology

Physiology, significance, and identification of microorganisms. Lecture: Three hours. Laboratory: Three hours. Prerequisites: BIOI-12100–BIOI-12200 or BIOI-11900–BIOI-12000; CHEM-12100 or CHEM-12200; CHEM-12600; CHEM-22100; CHEM-22200. 4 credits. (S,Y)

BIOI-46100 Ecophysiology

Examines the function and performance of animals and plants in their environment. This course integrates information from molecular biology through organism physiology to understand the mechanisms that allow organisms to survive in their physical, chemical, and biological environments. This information is analyzed to understand how these small-scale processes affect higher levels of organization from biotic communities up to global-level issues. Topics include adaptations to extremes in temperature, energy availability, moisture, and nutrients. Examples will be taken from organisms living in a wide variety of environments including deserts, the artic, temperate forests, marine environments, and rainforests. Lecture and discussion, with an emphasis on reading and analyzing the scientific literature. Prerequisites: BIOI-27100; BIOI-21400 or BIOI-47300. 4 credits. (S,E)

BIOI-47300 Plant Physiology

Intensive study of the basic physiological and biochemical processes of plants. Emphasis is placed on interaction between cellular structure and function, as well as coordination of the various physiological processes throughout the organism. Lecture: Three hours; Laboratory: Three hours. Prerequisites: BIOI-12100–BIOI-12200, or BIOI-11900–BIOI-12000; CHEM-12100 or CHEM-12300; CHEM-22100–CHEM-22200. 4 credits. (S,O)

BIOI-47600 Endocrinology

Introduces the mechanisms by which hormones control their targets and provides background on the major vertebrate hormones. The course then covers current research in endocrinology, analyzing topics such as weight control, growth, gender differentiation, reproduction, the stress response, and environmental endocrine disrupters. Lecture and discussion, with an emphasis placed on reading and analyzing the scientific literature. Prerequisites: BIOI-21400; BIOI-30100 (may be taken concurrently). 4 credits. (S,O)

BIOI-47800 Evolution

An overview of the field of evolutionary biology that includes the study of both microevolutionary and macroevolutionary change and the mechanisms of change. Specific topics of focus will include the nature of natural selection, population genetics, molecular evolution, adaptation, mechanisms of speciation, phylogenetic analysis, sexual selection, and the evolution of social behavior. Lecture: Three hours. Prerequisites: BIOI-22700. 3 credits. (F,O)

BIOI-47900 Aquatic Ecology

Explores the biological, chemical, and physical features of lakes and streams, features that are related to general ecological concepts and environmental concerns. Focuses on the invertebrate and fish communities, and the physiological adaptations of species to the aquatic environment. Theoretical approaches and practical techniques will be addressed. Lecture: Three hours. Laboratory: Three hours. Prerequisites: BIOI-15100 or BIOI-27100; CHEM-12100–CHEM-12200, or CHEM-11700–CHEM-11800, or CHEM-12300–CHEM-12600; CHEM-12400 or BIOI-27500. 4 credits. (S,O)

BIOI-48000 Evolution Lab

Designed to accompany BIOI-47800 Evolution. Laboratory is based on a research project that focuses on an actual question dealing with evolutionary systematics or natural selection. The research project involves gathering and analyzing morphological and molecular data. Research questions and organisms vary from year to year. Laboratory: Three hours. Prerequisites: BIOI-22700; BIOI-47800 (may be taken concurrently). 1 credit. (F,O)

CHEMISTRY

Bachelor of Arts, Bachelor of Science

Michael Haaf, Assistant Professor and Chair

The chemistry curriculum, approved by the American Chemical Society, provides an exceptionally strong foundation for further training at the graduate level. The department is nationally noted for its research program, and students are regularly involved in research publications. The curriculum is also designed to provide outstanding classroom and laboratory experience as preparation for a career in the chemical industry. Graduates who have chosen to go directly into industry as chemists have obtained excellent placements. Chemistry majors

133
Credit in chemistry and related science
American Chemical Society-approved degree

Requirements for the Major in Chemistry — B.S.
Credits in the major
Chemistry (CHEM-12100 or CHEM-12300, CHEM-12400, CHEM-2100, CHEM-2200, CHEM-22500, CHEM-23200, CHEM-32400, CHEM-32500, CHEM-32600, CHEM-33100, CHEM-33200, CHEM-34200, CHEM-48700, CHEM-48800) 37

Credits outside the major
Physics (PHYS-11700, PHYS-11800, PHYS-12000) 9
Mathematics (MATH-11100, MATH-11200) 8
Electives 28
Total, credits in the department 120

Requirements for the Major in Chemistry — B.A.
American Chemical Society-approved degree

Credits in the department
Chemistry (CHEM-12100 or CHEM-12300, CHEM-12400, CHEM-2100, CHEM-2200, CHEM-22500, CHEM-23200, CHEM-32400, CHEM-32500, CHEM-32600, CHEM-33100, CHEM-33200, CHEM-34200, CHEM-48700, CHEM-48800) 37

Credits outside the department
Biochemistry (BIOC-35300) 3
Physics (PHYS-11700, PHYS-11800, PHYS-12000) 9
Mathematics (MATH-11100, MATH-11200) 8
Electives 46
Total, credits outside the department 74
Total, B.A. in chemistry 120

Research in Chemistry
SLPA-23900 Educating Children with Special Needs 2
SLPA-22900 Second Language Acquisition: Its Nature and Meaning for Educators 2
PSYC-21010 Educational Psychology 3
EDUC-34000 Social and Cultural Foundations of Education 3
EDUC-38910 Pedagogy and Practice across the Disciplines 3
EDUC-31010 Pedagogy and Practice for the Science Teacher 3
EDUC-41210 Seminar in Reflective Practice 3
EDUC-49810 Professional Seminar in Education 12
EDUC-11000 Child Abuse Identification and Prevention 0
EDUC-11100 Drug and Alcohol Abuse: Identification and Prevention 0
Total, core education requirements 38

Additional requirements
- All teaching-option students must successfully complete a year of college-level study in a language other than English. Students may test out of this requirement by taking the language placement test and placing at level 2.
- All teaching-option students must successfully complete a writing course numbered WRTG-10600 or above.
- All teaching-option students must successfully complete the second-year review and maintain a minimum 2.75 GPA in their subject. If a student receives an unsuccessful review, or a review with stipulations, the student must participate in and successfully pass a second review the following year. Unsuccessful reviews and reviews with stipulations will be accompanied by a written statement outlining what must be done before the second review is completed.
- Students must earn a grade of B or better in EDUC-30610 and EDUC-31010 to qualify for student teaching. A grade of B- does not qualify.
- EDUC-49810 Professional Seminar in Education and EDUC-41210 Seminar in Reflective Practice constitute a full course load during the student-teaching semester. No additional courses may be taken.
- All candidates for initial certification must successfully complete all three sections of the New York State Teacher Certification Examinations; the liberal arts and sciences test, the assessment of teaching skills-written, and the content area exam.
- The student's department chair and the coordinator of teacher education must approve any exceptions to the above requirements.
### Credits outside the major

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physics (PHYS-11700, PHYS-11800, PHYS-11900, PHYS-12000, PHYS-21700)</td>
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</tr>
<tr>
<td>Math (MATH-11100, MATH-11200, MATH-21100, MATH-24000, MATH-26100)</td>
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</tr>
<tr>
<td>Computer science (COMP-17100)</td>
<td>4</td>
</tr>
<tr>
<td>Electives</td>
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</tr>
<tr>
<td>From the school of engineering</td>
<td>30</td>
</tr>
<tr>
<td>Total, B.A. in chemistry in the engineering program</td>
<td>120</td>
</tr>
</tbody>
</table>

### CHEMISTRY COURSES

#### CHEM-10100 Chemistry and Your Body NS LA 2a
A course designed for students who have chosen to major in areas other than science. An introduction to the basic ideas of chemistry, the nature and structure of chemical compounds, and the meaning of chemical symbols. An application of these ideas and understandings to the chemistry of the body, with specific discussion of food, drugs, cosmetics, and other health-related topics. Three hours of lecture and/or discussion per week. 3 credits. (S,Y)

#### CHEM-10200 Contemporary Chemical Issues NS LA 2a
A description and discussion of new compounds and materials made by the chemical industry during the past 100 years that have properties superior to those of naturally occurring products. Many of these advances have significantly improved modern living; however, by-products of some of these advances have also decreased the overall quality of life. After an introduction to the language and symbols of chemistry, topics related to contemporary problems and examples follow some compounds from research curiosities to industrial products. Three hours of lecture and/or discussion per week. 3 credits. (IRR)

#### CHEM-10500 Energy and the Environment NS LA 2a
Description and discussion of types and sources of natural resources with a special emphasis placed on energy resources. Background is presented in terms of simple chemical principles understandable to students with majors other than the sciences. Topics of societal concern include air pollution, acid rain, global warming, ozone depletion, and upcoming energy shortages. Viable solutions to these problems are discussed. Primarily for students majoring in areas other than science or physical therapy. Three hours of class meeting per week, including discussion, lecture, and quizzes. 3 credits. (FY)

#### CHEM-10600 Preparation for Principles of Chemistry NS LA
A review of topics generally found in high school chemistry and an introduction to the heuristic approach to the solution of chemical problems. This course is intended for students who feel the need for some formal preparation before taking CHEM-12100 Principles of Chemistry. Emphasis is placed on student participation. Three hours of recitation per week. Prerequisites: Math placement in group 3, 2, or 1, or C- or better in MATH-10000 or MATH-10000. Pass/fail only. 2 credits. (S,Y)

#### CHEM-10800 Introduction to Technology NS LA 2a
A course for non-science students, with an emphasis on the applications rather than the theories of science. This course examines those technologies, primarily nuclear technology (civilian and military) and biotechnology, that will significantly affect our lives in the years to come. Three hours of lecture and/or discussion per week. 3 credits. (IRR)

#### CHEM-11000 General Chemistry NS LA 2a
General chemistry for occupational therapy majors. Topics from inorganic, organic, and biological chemistry including the electronic structure of atoms, stoichiometry, equilibria, acids and bases, thermodynamics, kinetics, nomenclature, structure, and reactions of organic compounds and biochemicals. Required for occupational therapy majors. Prerequisites: High school chemistry. 3 credits. (S,Y)

#### CHEM-11100 Fundamentals of Chemistry NS LA 2a
General theories and principles of chemistry. Introduction to physical principles, combined with a systematic study of the periodic table. Intended for students in physical therapy and other allied health professions. Three hours of lecture per week. Prerequisites: High school chemistry or CHEM-10600. 3 credits. (FY)

#### CHEM-11200 Organic Chemistry and Biochemistry NS LA 2a
Introduction to general theories and principles of organic chemistry and biochemistry. The naming and structure of organic compounds, reactivities of the various functional groups in both aliphatic and aromatic compounds, and an introduction to the organic chemistry of biologically important systems. Three hours of lecture per week, with a fourth hour scheduled for review session and exams. Prerequisites: CHEM-11100 or equivalent. 3 credits. (S,Y)
CHEM-11300–CHEM-11400 Chemistry Laboratory NS LA 2a
Designed to complement the CHEM-11100–CHEM-11200 sequence. First-semester work is primarily in inorganic chemistry and qualitative analysis. Second-semester work deals with organic reactions. One laboratory per week. Prerequisites: CHEM-11100 or CHEM-11200 (one may be taken concurrently). 1 credit. (CHEM-11300-F; CHEM-11400-S, Y)

CHEM-11700 Environmental Chemistry NS LA 2a
General principles of chemistry needed for the study of environmental science. Topics include mathematical methods, electronic structure of atoms, stoichiometry, equilibria, acids and bases, thermodynamics, kinetics, and nuclear chemistry. Required of environmental studies majors but open to nonmajors. 3 credits. (F, Y)

CHEM-11900 Environmental Chemistry Laboratory NS LA
Hands-on experience with modern analytical instruments that are frequently encountered in environmental assessments. The course prepares students to be technologically knowledgeable and authoritative in their future careers. Laboratory: Four hours. Prerequisites: CHEM-11700 (may be taken concurrently). 1 credit. (F, Y)

CHEM-12100 Principles of Chemistry NS LA 2a
Introduction to general theories and principles of chemistry stressing underlying correlations. Systematic study of the periodic table, with an emphasis placed on bonding and the quantitative relationships between the elements. Three hours of lecture and one recitation per week. Prerequisites: High school algebra and high school chemistry with minimum grade of C. Students cannot receive credit for both CHEM-12100 and CHEM-12300. 4 credits. (F, Y)

CHEM-12300 Principles of Chemistry—Enriched Section NS LA 2a
Introduction to general theories and principles of chemistry, stressing underlying correlations. Systematic study of the periodic table with an emphasis on bonding and the quantitative relationships among the elements. The course covers additional topics and examples of scientific interest not included in CHEM-12100. Students cannot receive credit for both CHEM-12100 and CHEM-12300. Three hours of lecture and one recitation per week. Primarily intended for biochemistry and chemistry majors. Prerequisites: High school algebra and high school chemistry with minimum grade of C. 4 credits. (Y)

CHEM-12400 Experimental Chemistry I NS LA 2a
First semester of a five-semester modern laboratory sequence designed to cut across lines within the discipline. Quantitative analysis, inorganic synthesis, and modern instrumental techniques, such as ultraviolet, visible, and infrared spectrophotometry, are introduced. One lecture and one laboratory per week. Prerequisites: CHEM-12100 or CHEM-12200; CHEM-22100 (may be taken concurrently). 2 credits. (S, Y)

CHEM-22100–CHEM-22200 Organic Chemistry NS LA
Study of the chemistry of carbon compounds, with an emphasis on both traditional and current concepts. Structure, nomenclature, preparation, reactions, and analysis of organic compounds are covered, using modern theories and reaction mechanisms as a unifying basis. The use of scientific and logical thought patterns is stressed in problem solving. Three hours of lecture per week. Prerequisites for CHEM-22100: CHEM-12100 or CHEM-12200. Prerequisites for CHEM-22200: CHEM-22100, 3 credits. (CHEM-22100-S, CHEM-22200-F, Y)

CHEM-23200 Quantitative Chemistry NS LA
Foundation for advanced work in chemistry, biochemistry, biology, and related subjects. Qualitative approach to chemical equilibrium, chemical kinetics, chemical thermodynamics, and electrochemistry. Prerequisites: CHEM-22200, 3 credits. (S, Y)

CHEM-22500 Experimental Chemistry II NS LA
Emphasis is placed on synthesis and qualitative analysis, using infrared and nuclear magnetic resonance spectroscopy and various chromatographic techniques. One lecture and one laboratory per week. Prerequisites: CHEM-12100 (with a grade of C- or better); CHEM-22200 (may be taken concurrently). 2 credits. (F, Y)

CHEM-32400–CHEM-32500–CHEM-32600 Experimental Chemistry III-IV-V NS LA
Completion of the unified sequence. Project-oriented experiments to deal with concepts normally found in instrumental-analysis physical, organic, and inorganic laboratory courses. Emphasis is placed on using synthetic techniques, modern analysis by instrumentation, and studies of the physical properties of chemical systems. One lecture and two laboratories per week. Prerequisites for CHEM-32400: CHEM-22500 (with a grade of C- or better); CHEM-23200 (may be taken concurrently). Prerequisites for CHEM-32500: CHEM-32400 (with a grade of C- or better); CHEM-34200 (may be taken concurrently). 3 credits. (CHEM-32400-S, CHEM-32500-S, CHEM-32600-F)

CHEM-33100 Physical Chemistry I NS LA
A theoretical interpretation of nature from the macroscopic viewpoint. Includes an introduction to thermodynamics, electrochemistry, and chemical kinetics. Prerequisites: CHEM-23200; MATH-10800 or MATH-11200; PHYS-10200 or PHYS-11800. 3 credits. (F, Y)

CHEM-33200 Physical Chemistry II NS LA
A theoretical interpretation of nature from the microscopic viewpoint. Includes an introduction to the kinetic molecular theory of gases, quantum chemistry, and spectroscopy. Prerequisites: CHEM-23200 (may be taken concurrently); MATH-11200; PHYS-11800. 3 credits. (S, Y)

CHEM-34200 Inorganic Chemistry NS LA
Theories of atomic structure and chemical bonding are applied systematically to the elements. Emphasis is placed on thermodynamic, kinetic, and structural considerations of inorganic systems. Three hours of lecture per week. Prerequisites: CHEM-33100 (may be taken concurrently). 3 credits. (F, Y)

CHEM-35200 Computer Techniques for Scientists NS LA
An introduction to the ways scientists use computers without writing computer programs. Topics include numerical calculations, statistical analysis of data, information retrieval, and artificial intelligence. Prerequisites: Three courses in BIOI-xxxx, CHEM-xxxx, or PHYS-xxxx; students should have written at least one program in a language such as BASIC or Pascal. 3 credits. (IRR)

CHEM-35400 Polymer Chemistry NS LA
The synthesis, structure, and properties of polymers, with a special emphasis on practical applications in the chemical industry. Topics include sources of chemical raw materials, plastics, fibers, drugs, surface coatings, food chemicals, dyes, and pigments. Specific examples illustrate the scientific basis for the performance of familiar, everyday materials. Prerequisites: CHEM-22200. 3 credits. (Y)

CHEM-35600 Nuclear Magnetic Resonance NS LA
A study of nuclear magnetic resonance and its applications in organic and inorganic chemistry. Topics include basic theory, instrumentation, chemical shift, spin–spin coupling, non-first-order spectra, C-13 spectra, modern pulse FT techniques, and applications to organometallics and macromolecules. The course emphasizes spectral interpretation and practical applications, and includes experiments using multipulse techniques. Prerequisites: CHEM-22200. 3 credits. (F, Y)

CHEM-42100 Advanced Organic Chemistry NS LA
Detailed discussion of reaction mechanisms, isotope effects, linear free energy relationships, bonding theories, and advanced synthetic methods. Prerequisites: CHEM-22200; CHEM-33200. 3 credits. (IRR)

CHEM-42200 Advanced Inorganic Chemistry NS LA
Chemistry of coordination compounds in light of modern theory. The electronic, magnetic, and spectral properties of transition metal complexes are considered, with application of group theoretical techniques. Other topics include formation and stability of complex ions, mechanism of reactions of these ions, and complexes of transition metal ions of biological interest. Three hours of lecture per week. Prerequisites: CHEM-34200. 3 credits. (IRR)

CHEM-43200 Bio-Organic Chemistry NS LA
Covers the modern interface of chemistry and biology, as well as an examination of current developments in biotechnology. Topics include combinatorial chemistry and modern synthetic methods, protein engineering, innovative approaches to drug design, enzyme mimics, and in vitro evolution of functional biopolymers. Prerequisites: CHEM-32400. 3 credits. (IRR)

CHEM-44200 Computational Chemistry NS LA
A solid understanding of the theoretical aspects of computational modeling and its utility and limitations in predicting electronic structures, molecular geometries, chemical dynamics, and chemical reactivity. In addition, the student will gain a hands-on, working knowledge of modern computational methods. Prerequisites: CHEM-32400; CHEM-33200. 3 credits. (IRR)

CHEM-44400 Chemical Applications of Group Theory NS LA
The chemical applications of symmetry and group theory, with a special emphasis placed on chemical bonding and spectroscopy. The necessary mathematical underpinnings for this course, including vectors, matrix algebra, and group theory, are presented largely in terms of symmetry operations and related properties of molecules. Prerequisites: CHEM-34200 and CHEM-33100. 3 credits. (IRR)
CHEM-65200 Instrumental Analysis
Familiarizes students with the principles and applications of modern analytical instrumentation for chemical analysis through hands-on experience with a wide variety of instrumental techniques. Prerequisites: CHEM-32400; PHYS-10200 or PHYS-11200; 3 credits. (IRR).

CHEM-68700-CHEM-48800 Chemistry Seminar
Series of lectures dealing with current research topics in chemistry and biochemistry presented by the faculty, visitors, and students. Each student is required to present a talk during the semester. One meeting per week. Prerequisites: Permission of department. Pass/fail only. 1 credit. (CHEM-48700-F, CHEM-48800-S, Y)

Qualified undergraduates are given opportunities to participate in the department's instructional program, serving as laboratory assistants and/or tutors. Prerequisites: Permission of department. Pass/fail only. 1 credit.

CHEM-18100-CHEM-18200, CHEM-28100-CHEM-28200, CHEM-38100-CHEM-38200, CHEM-48100-CHEM-48200 Selected Topics in Chemistry
Course content depends on interests of the students and may include informed discussions, outside reading, and either library or laboratory projects. The course may be repeated for credit for selected topics on different subjects. Prerequisites: Permission of instructor. 1–3 credits. (IRR)

CHEM-19100-CHEM-19200, CHEM-29100-CHEM-29200, CHEM-39100-CHEM-39200 Research in Chemistry
After consultation with the faculty of the Department of Chemistry, a research problem is undertaken under the guidance of one or more faculty members. Prerequisites: Permission of department. 1–3 credits.

CHEM-49100-CHEM-49200 Honors Research in Chemistry
After consultation with the faculty of the Department of Chemistry, a research problem is undertaken under the guidance of a faculty member. A written report on the results of the research is required. Prerequisites: Admission to chemistry honors program. 3–4 credits.

CLASSICAL STUDIES MINOR
Robert G. Sullivan, Associate Professor and Coordinator
For information about the classical studies minor see its listing under “Individual and Interdisciplinary Studies Programs” on p. 200.

COMMUNITY SERVICE PROGRAM
Michael Smith, Assistant Professor and Coordinator
For information about the community service program see its listing under “Individual and Interdisciplinary Studies Programs” on p. 201.

COMPUTER SCIENCE
Bachelor of Arts, Bachelor of Science
Patricia Woodworth, Associate Professor and Chair
The computer science and computer information systems majors include a required core curriculum, as recommended by standard professional societies, providing a solid base of knowledge about computer science and information systems. In addition, elective courses can be chosen from a variety of possible topics, providing flexibility in matching an individual's interests. The majors provide preparation for graduate study or for career placement in computer science, information systems, or related fields.

Requirements for Honors in Computer Science
Honors in computer science recognize excellent overall scholarship and the successful completion of an honors-level capstone experience. Candidates need departmental approval based on computer science maturity, creativity, and the ability to do independent work in order to register for the honors course (COMP-49300). Final approval for honors is decided by department vote.

Requirements for the Major in Computer Science — B.A.
Computer science, including COMP-11500, COMP-17100, COMP-18000, COMP-21000, COMP-22000, COMP-23400, COMP-24500, COMP-31100, COMP-32100, and COMP-47500
Mathematics (MATH-11100)
4
In-depth knowledge — Select one course from COMP-31000, COMP-34400, COMP-39000, COMP-41100, COMP-42000, COMP-43000, and COMP-49000
Electives — Select three courses from COMP-31000, COMP-31500, COMP-22500, COMP-34400, COMP-36500, COMP-37500, COMP-39000, COMP-41100, COMP-42000, COMP-43000, COMP-44100, COMP-49000, and other approved courses
Oral communication — Select one course from SPCM-11000, SPCM-11500, SPCM-14000, or other courses approved by the department
Electives
63–66
Total, B.A. in computer science
120

Requirements for the Major in Computer Science — B.S.
Computer science (COMP-11500, COMP-17100, COMP-18000, COMP-21000, COMP-22000, COMP-23400, COMP-24500, COMP-31100, COMP-32100, COMP-47500)
Mathematics, including MATH-11100, MATH-11200
8
Restricted electives in the department — Select two (one of which must be at level 4) of the following:
COMP-31000, COMP-34400, COMP-41100, COMP-42000, COMP-43000, COMP-49000
Electives — Select three from COMP-31000, COMP-31500, COMP-22500, COMP-34400, COMP-36500, COMP-37500, COMP-39000, COMP-41100, COMP-42000, COMP-43000, COMP-44100, COMP-49000, and other approved courses
Laboratory science sequence: PHYS-11700, PHYS-11800, PHYS-12000, or CHEM-12100, CHEM-12400, CHEM-21000 or BIOL-12100, BIOL-12200; or PSYC-10300, PSYC-11300, PSYC-33000, PSYC-33100; or PSYC-10300, PSYC-11300, PSYC-31100, PSYC-31200, or BIOL-11900, BIOL-12000, or PHYS-10100, PHYS-10200
Two electives — any biology, chemistry, or physics course required for biology chemistry, or physics majors, or any psychology course designated as a natural science, or MATH-21100, MATH-26000, or MATH-24300
Oral communications — Select one course from SPCM-11000, SPCM-11500, SPCM-14000, or other courses approved by the department
Electives
37–45
Total, B.S. in computer science
120

Requirements for the Major in Computer Information Systems — B.S.
The computer information systems program provides a solid base of knowledge in information systems, combining courses from computer science, computer information systems, and business. It prepares students for immediate employment in the information systems field or further study in information systems, computer science, management information systems, information technology, or other professional programs such as M.B.A. programs.

Required courses
Computer science, including COMP-11500, COMP-17100, COMP-18000, COMP-20500, COMP-21000, COMP-23400, COMP-24500, COMP-34500, COMP-37500, COMP-46100, COMP-47500
Required courses in other departments: ECON-12100, ECON-12200, ACCT-25000, FINA-31100, MGMT-20600, MKTG-31200
39

7
18
COMPUTER SCIENCE COURSES

COMPUTER SCIENCE Courses

Restricted electives outside major department — Select one from each of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit</th>
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<tbody>
<tr>
<td>MATH-10700, MATH-10800, MATH-11100</td>
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<tr>
<td>Math-14400, Math-24400</td>
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</tr>
<tr>
<td>ACCT-22600, FINA-20300, MKTG-31000, MKTG-32300,</td>
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<tr>
<td>MKTG-39100, PROD-34500, LSST-320300</td>
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<tr>
<td>SPCM-11000, SPCM-15500</td>
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</tr>
<tr>
<td>INTB-26500, MKTG-38800, or other courses approved by the department</td>
<td>3</td>
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</table>

Total, B.S. in computer information systems 120

Minor in Computing
The purposes of this program are to provide a substantial introduction to computing for students of various disciplines and an opportunity to integrate computing into their field, to provide the basic education necessary for certain future computing careers, or to provide a coherent program for students interested in computing.

Requirements for the minor

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP-11500, COMP-17100, COMP-22000</td>
<td>12</td>
</tr>
<tr>
<td>Select three additional computing courses at level 2 or above (excluding COMP-20100 and COMP-20500), at least one of which must be at level 3 or above</td>
<td>10–12</td>
</tr>
</tbody>
</table>

Total required for the minor 22–24

Note: No course, with the exception of COMP-17100, may be used to satisfy both a computing minor and any requirements of a mathematics major or minor.

An overall average of C (2.00) is required in computer science/mathematics courses used to fulfill the minimum course requirements for the minor.

Minor in Web Programming

Requirements for the minor

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit</th>
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<tbody>
<tr>
<td>COMP-10500, COMP-10600, COMP-17100, COMP-18000, COMP-20500, COMP-23400, COMP-32500</td>
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</tr>
</tbody>
</table>

Minimum Grade for Prerequisites

A grade of C- or better is required for a course in computer science to fulfill a prerequisite for another computer science course.

Advanced Placement

Students can receive credit and advanced placement in COMP-17100 Principles of Computing Science I with a grade of 4 or 5 on the College Board Advanced Placement Examination.

COMP-10500 Introduction to Website Development NS LA

Introduction to the Internet, web browsers, and using the Internet as a research resource. Students study web page design techniques and concepts and use these to develop web pages with basic HTML and more advanced features such as tables, frames, forms, and style sheets. The basics of storing and displaying graphics including file formats for graphics files, creating images for the web, and optimizing colors and size for display on browsers. The use of scripting languages such as JavaScript is introduced. Prior experience using Microsoft Windows or the Mac OS is expected. Students who have completed or are taking COMP-20500 may not receive credit for this course. Students may not receive credit for both this course and MGMT-26000. 3 credits. (F-S-Y)

COMP-10600 Introduction to Multimedia Programming NS LA

Introduces applications that produce text, sound, graphics, animation, and movies on the computer. A multimedia scripting language and a development environment necessary to combine the media into an interactive application are studied. Programming concepts (abstractions, control mechanisms, data structures), problem decomposition, and design concepts (user interface design and the integration of media) are discussed and utilized. Previous computer experience is assumed. 4 credits. (S-Y)

COMP-11000 Computers and Information Technologies NS LA 2b

Develops student expertise in the use of a computer and the major software tools used for personal and professional productivity, with an emphasis placed on spreadsheets and database management systems. Includes an introduction to the components of a computer system and to social and ethical issues surrounding the use of a computer. Students may receive credit for only one of the following courses: COMP-11000, PHED-13900, TRLS-13900, HLTH-13900, EXSS-13900. Students who have already taken COMP-20100 cannot receive credit for this course. Prerequisites: 3 credits. (F-S-Y)

COMP-11500 Discrete Structures for Computer Science NS LA 2b

An introduction to discrete structures for computer science. The major topics of study include sets, proof techniques, logic, predicate logic, relations and functions, counting and probability, matrices, and induction. Prerequisites: Group 2 or 1 on the math placement exam. 4 credits. (F-S-Y)

COMP-17100 Principles of Computing Science I NS LA 2b

A disciplined introduction to problem-solving methods and program development. Topics include standard control structures, basic data structures, algorithms and abstraction mechanisms, testing, and an introduction to algorithm analysis. 4 credits. (F-S-Y)

COMP-17900 Topics: Computer Languages U LA

The syntax, data structures, and distinctive features of a specific programming language chosen from those not given detailed coverage in any regularly offered computer science course. Programming assignments develop students’ skills in the language and illustrate typical applications. Possible languages include C++, LISP, and PROLOG. Restricted to students who have not already taken a course treating in detail the language offered by this course. May be repeated for credit with different languages. Prerequisites: COMP-17100. 1 credit. (IRR)

COMP-18000 Java Programming U LA

The study of the syntax, data structures, and distinctive features of the Java programming language. Programming assignments develop students’ skills in Java and illustrate typical Java applications. Prerequisites: COMP-17100. 1 credit. (IRR)

COMP-19000, COMP-29000, COMP-39000, COMP-49000 Topics in Computer Science NS LA/NLA

Topics to be determined by the instructor and the Department of Computer Science. May be repeated for credit for selected topics on different subjects. Prerequisites: As appropriate to topics. 1–4 credits. (IRR)

COMP-19200, COMP-29200, COMP-39200, COMP-49200 Independent Study in Computer Science U LA

Enrichment and extension of the regular curriculum to areas not covered in existing courses. Arranged individually between student and faculty sponsor according to guidelines available from the department. 1–4 credits. (IRR)

COMP-20100 Technology for the Middle/Secondary School Teacher NS LA

Introduction to the concepts and skills necessary for applying information technology in educational settings. Topics include basic computer/technology operations and concepts including terminology, access and manipulation of data, installation and use of software, basic troubleshooting, use of a variety of peripheral devices, and social and ethical issues. Pedagogical studies of technologies. Projects require integrating application software problem-solving skills, concepts, and technical skills and relating them to some aspect of the teaching profession. Students who have completed COMP-11000 should consult with the computer science department and the coordinator of teacher education before enrolling in this course. Prerequisites or corequisites: One course with a field experience component from the humanities and sciences teaching option program. 2 credits. (F-S-Y)

COMP-20500 Advanced Web Programming NS LA

Introduction to the creation of interactive and dynamic web pages. Students study the technologies and concepts necessary to add interactive scripts to web pages (client-side programming), receive and supply information to web pages (server-side programming using scripting), and store information (database creation). Prerequisites: COMP-17100, or COMP-10500 and COMP-10600. 4 credits. (S-Y)

COMP-21000 Introduction to Computer Organization and Systems NS LA

Computer structure and organization. Investigation of operating systems including processes, memory management, and file systems. Prerequisites: COMP-22800 or COMP-22900. 4 credits. (S-Y)

COMP-22000 Introduction to Data Structures NS LA

This course covers basic data structures including stacks, queues, trees, and graphs. Fundamental algorithmic techniques, such as sorting and searching, are also covered. Prerequisites: COMP-17100; COMP-11500 or MATH-11100 (may be taken concurrently). 4 credits. (S-Y)

COMP-22500 HCI: User Interface Design and Development NS LA

This course presents the fundamental concepts of design, prototyping, evaluation, and implementation of user interfaces (UIs), which are part of the field of HCI (human-computer interaction). Topics of study include user-
centered design, task analysis, prototyping, interface design principles, user testing, interface metaphors, windows and event-driven programming, and heuristic evaluation. Principles of human perception and cognition are applied to user interface design. Web interface designs and 3-D user interfaces are also studied. Prerequisites: COMP-17100; COMP-19000; COMP-20500 or COMP-22000. 4 credits. (F,Y)

COMP-23400 Ethical Issues in the Computing Field NS LA
The seminar acquaints students with many of the ethical issues faced by professionals in the computing field. Students are required to formulate and support positions on these issues, both orally and in writing. Readings explore differing opinions and issues of controversy among computer professionals. Prerequisites: COMP-17100. 3 credits. (S,Y)

COMP-24500 Introduction to Software Engineering NS LA
An introduction to the software development process, focusing on analysis, design, programming, and testing of a medium-scale team project. Object-oriented software engineering practices are discussed, with an emphasis on the unified process, use case-based design and the unified modeling language (UML). Testing, risk analysis, and design patterns are also addressed. Prerequisites: COMP-18000; COMP-17100; and either COMP-22000 or COMP-22500. 4 credits. (F,Y)

COMP-31000 Implementation of Computer Operating Systems NS LA
In-depth investigation of the major concepts, algorithms, and implementation principles of computer operating systems. Both theoretical and practical aspects of operating systems are considered; students undertake substantial programming projects to illustrate concepts. Topics include scheduling; resource and storage allocation; problems of resolving deadlock, exclusion, and synchronization; memory allocation; secondary storage implementation; and distributed system structures. Prerequisites: COMP-21000. 4 credits. (S,O)

COMP-31100 Algorithms and Data Structures NS LA
Analysis of major algorithms and data structures for primary memory. Data structures include graphs, dynamic hash tables, and balanced tree structures. Other major topics are algorithm design techniques (greedy method, divide/ decrease and conquer, recursion and dynamic programming, branch and bound, and approximation algorithms). Prerequisites: COMP-22000 and COMP-11500. 4 credits. (F,Y)

COMP-31500 Computer Graphics NS LA
An introduction to the fundamentals of computer graphics, two-dimensional and three-dimensional algorithms for geometry, transformations, and viewing and lighting. The emphasis is on real-time, event-driven graphics techniques. Programming projects provide hands-on experience in the topics covered. Prerequisites: COMP-22000; COMP-11500 or MATH-26000. 4 credits. (F,0)

COMP-32100 Programming Languages NS LA
An intermediate-level course in programming language constructs, including design issues, paradigms and corresponding machine models, language constructs, syntax, and semantics. Includes a survey of actual programming languages representative of common paradigms, critically comparing the design choices and features unique to each. Algorithmic, functional, and logical languages are considered. Prerequisites: COMP-21000. 4 credits. (S,Y)

COMP-34400 Computer Architecture NLA
Investigates the design and organization of computer hardware. Reviews computer organization issues; provides an overview of data representation, addressing modes, subroutine calling mechanisms, and a thorough introduction to digital logic; examines in detail the major components of a computer (including arithmetic logic units, control units, and memory). Prerequisites: COMP-21000. 4 credits. (S,E)

COMP-36500 Computer Networks NS LA
Basic concepts of computer networks and data communications. The major topics include transmission media, error detection, routing, client-server models, remote execution, and encryption. Includes a discussion of characteristics of local and wide area networks, heterogeneous networks, and case studies of current networks. This course contains a laboratory component that includes topics such as network configuration, topologies and protocols, and installation of networks. Prerequisites: COMP-21000. 4 credits. (S,E)

COMP-37000–COMP-47000 Computer Project U NLA
After consultation with the computer science faculty, a project is undertaken to design and implement a substantial computer application under the guidance of one or more faculty members. Prerequisites for COMP-37000: Junior standing; permission of the computer science faculty. Prerequisites for COMP-47000: Senior standing; permission of the computer science faculty. 1–3 credits. (F, S, Y)

COMP-37500 Database Systems NS LA
Study of the basic concepts involved in database systems, including database architecture, data models, database design, and query techniques. The course includes practical experience through a semester-long team project to design and implement a database and related applications using SQL. Prerequisites: COMP-17100; COMP-22000 or COMP-22500. 4 credits. (S,Y)

COMP-41100 Formal Languages and Automata NS LA
Introduces to the theoretical computer science examine (with some mathematical rigor) the basic models of computation and explore the capabilities and limitations for computers. Finite automata, regular languages, regular grammars, undecidability, and other structural properties are examined. Prerequisites: COMP-31100. 4 credits. (F,E)

COMP-42000 Compiler Theory NS LA
Study of the principles and techniques of compiler construction. Topics include lexical analysis, parsing, semantic analysis and intermediate code generation, run-time environments, code generation, code optimization, and error recovery. Prerequisites: COMP-32100. 4 credits. (F,0)

COMP-43000 Virtual Reality NS LA
This course introduces the fundamental concepts of virtual reality (VR) with an emphasis on the interdisciplinary nature of VR system development and applications. Topics include survey and analysis of VR hardware, software, and methodologies; advanced topics in computer graphics; interaction and navigation within VR; simulation and behaviors in virtual worlds; human perception; and applications of VR. The course includes hands-on experience programming a VR project utilizing the department’s VR laboratory. Prerequisites: COMP-31500. 4 credits. (S,E)

COMP-46100 Systems Analysis and Design NS LA
Study of the analysis and design of business-oriented systems. The major topics include data flow analysis, the systems development life-cycle approach, qualities of good system design, and design strategies. This course also introduces students to structured analysis and design techniques. Prerequisites: COMP-37500. 4 credits. (F,Y)

COMP-47500 Senior Project NS LA
Offers students the opportunity to consolidate theory and apply concepts to a computer-based problem, thus enhancing their understanding of various facets of the computing discipline. Students are responsible for the analysis, design, development, documentation, implementation, and testing of the computer system. The project may be carried out singly or in small groups of up to four people. Prerequisites: Senior standing; permission of instructor. 3 credits. (F-S,Y)

COMP-49300–COMP-49400 Honors Course NS LA
Preparation of honors thesis in partial fulfillment of requirement for graduation with honors in computer science. Prerequisites: Honors standing in computer science. 1–2 credits. (Irr)

COMP-49800 Computer Science Internship for Majors NLA
A computer science project (carried out within an organization outside the department) that is not routine, entails significant work experience, and has substantial academic content. The student is responsible for developing a project proposal and completing it in conjunction with a faculty sponsor from the department and a supervisor from the outside organization. At the end of the project, the student shall present a report based on the experience. With departmental approval, up to 4 credits may be counted as upper-level elective credit toward a major in computer science or mathematics–computer science. Prerequisites: Permission of a faculty sponsor; completion of three-fourths of the required coursework for the major in computer science, computer information systems, or mathematics–computer science. 1–12 credits. (Irr)
ECONOMICS

Bachelor of Arts, Bachelor of Science

Ela Kacapyr, Professor and Chair

The Department of Economics curricula offer majors broad coverage of the economic discipline and opportunities for specialization in any of several major areas, such as analytical, quantitative, or international economics. General courses are also available for students in other disciplines who want to gain an understanding of economics.

The curricular offerings are a B.A. in economics, a B.S. in applied economics (both housed in the Department of Economics), and a B.A. in mathematics-economics (housed in the Department of Mathematics). The B.A. in economics is a traditional liberal arts degree, with a core set of requirements surrounded by elective courses. The applied economics curriculum includes policy courses in the economics department, and finance and accounting courses in the School of Business. This B.S. program offers students a wide range of career and graduate school options. With most college graduates changing jobs or occupations six or more times in their working careers, this applied economics program is most appropriate.

Requirements for Honors in Economics

The honors program for economics, applied economics, and mathematics-economics majors is designed to encourage in-depth study and research. For economics department honors, a special honors paper is required; it may be an extension or improvement of a previously submitted paper. Students majoring in economics, applied economics, and mathematics-economics with an overall cumulative GPA of 3.00 and a GPA of at least 3.30 in economics courses may qualify for honors in economics. The student selects an economics faculty member as a sponsor and tutor. The research should be conducted during the fall and spring semesters of the student’s senior year. The student is required to defend the honors paper before a committee of instructors and the chair of the department. The committee approves, at its discretion, departmental honors for individual students.

Requirements for the Major in Economics — B.A.

Credits in the major — Economics

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ECON-12100</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON-12200</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON-32100</td>
<td>Money and Banking</td>
<td>3</td>
</tr>
<tr>
<td>ECON-32500</td>
<td>Public Finance</td>
<td>3</td>
</tr>
<tr>
<td>ECON-33300</td>
<td>Econometrics I</td>
<td>3</td>
</tr>
<tr>
<td>ECON-34100</td>
<td>Micro Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ECON-34200</td>
<td>Macro Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ECON-41100</td>
<td>International Economics</td>
<td>3</td>
</tr>
<tr>
<td>ECON-49200</td>
<td>Special Problems in Economics (tutorial)</td>
<td>3</td>
</tr>
</tbody>
</table>

Total, required economics courses: 27

Credits outside the major — Mathematics

One course selected from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MATH-10700</td>
<td>Fundamentals of Applied Calculus</td>
<td>3</td>
</tr>
<tr>
<td>MATH-10800</td>
<td>Calculus for Decision Making</td>
<td>3</td>
</tr>
<tr>
<td>MATH-11100</td>
<td>Calculus I</td>
<td>3</td>
</tr>
</tbody>
</table>

Total required for minor: 120

Requirements for the Minor in Economics

Credits in the field — Economics

Total, B.A. in economics: 120

Credits outside the field

Mathematics elective: 4

Total required for minor: 22

ECONOMICS COURSES

ECON-11500 Current Economic Issues

The study of economic issues tied to selected topics, such as unemployment and inflation, budget deficits, health care reform, trade policy, poverty, discrimination and welfare reform, environmental pollution control policy, and energy policy. 3 credits, (IRR)

ECON-12100 Principles of Macroeconomics

Introduction to economics as a discipline and as an analytical approach to problem solving. Macroeconomics includes the following topics: production-possibilities frontiers, determination and measurement of national income, business cycles, money and banking, federal reserve system, fiscal and monetary policies, schools of economic thought, business organizations, taxation, social versus private goods, price levels, and applications to current economic problems. 3 credits. (S,Y)

ECON-12200 Principles of Microeconomics

Introduction to microeconomics, with topics such as determination of price by supply and demand, theory of consumer demand and utility, analysis of costs and supply, market structures and industry organization including monopoly, distribution of income, pricing of productive resources (wages, interest, profits, and rents), international economics, comparative economic systems, and applications to current economic problems. 3 credits. (F,Y)
ECON-22000 Managerial Economics
The application of microeconomic theories to managerial decisions with respect to production, pricing, auction behavior, and market participation. Topics include pricing and strategy decision making in the context of auctions; perfect competition and imperfect competition; production and cost considerations; how to influence competitor behavior; how to react to competitor behavior; and understanding and applying marginal analysis (e.g., marginal cost, marginal revenue). Not open to students who have earned credit for FINA-30100. Prerequisites: ECON-12100–ECON-12200. 3 credits. (S, Y)

ECON-26200 Economics of Welfare Policies
An investigation and critique of the present U.S. welfare system, leading to policy implications in the form of alternative systems that would be more cost effective. Economic criteria or optimality conditions provide the parameters for the critique. Social Security, AFDC, food coupons, housing programs, and the relationships between work incentives and welfare are analyzed. Alternatives, such as negative income tax and a restructured welfare system, are studied. Designed primarily for social work minors, but others are encouraged to enroll. Prerequisites: ECON-12100; one course in humanities, social sciences, or business. 3 credits. (F, Y)

ECON-27000 The Economic Emergence of Women
Introduction to the economic issues and origins of women’s new role in the economy. Topics include the economic impetus behind women’s emergence, sex segregation on the job, the low wages of women, discrimination, the economics and policies of family care, and the industrialization of housework and child care. Prerequisites: ECON-12100 or ECON-12200; one course in humanities, social sciences, or business. 3 credits. (S, Y)

ECON-28100 Environmental Economics
Introduction to the study of environmental problems with the perspective, analytical ideas, and methodology of economics. Emphasis is placed on the analysis of environmental policy. Topics include the relationship between economic activity and environmental quality, the role of economic analysis in environmental policy decisions, economic analysis of pollution control strategies, and economic analysis of environmental policy in both the United States and the international community. Prerequisites: ECON-12200. 3 credits. (S)

ECON-30100 Labor Economics
Presents the economics of labor through concepts such as human capital or resources; factors of production; market forces; employed, unemployed, minority, majority, union, nonunion, theory, and evidence, and their relevance to public policy decisions. Prerequisites: ECON-12100–ECON-12200; two courses in humanities, social sciences, or business. 3 credits. (F, Y)

ECON-30400 Economics of Health Care
Peculiar economic characteristics of the health care industry, Supply of and demand for health care services; causal and remedial forces of institutionalized frameworks, market mechanisms, and governmental intrusions. Analysis of pricing in terms of the above forces and productivity. Ideal economic characteristics of medical insurance, as contrasted with several proposals for national health insurance. Production for national health insurance. Production function, cost-effectiveness, and benefit-cost analysis. Cross-listed with HPS-30400; students cannot receive credit for both ECON-30400 and HPS-30400. Prerequisites: ECON-12100–ECON-12200; two courses in humanities, social sciences, or business. 3 credits. (S, Y)

ECON-31200 Economic Development
Examination of economic change in developing countries. An evaluation of the goals of current development policy at national and international levels. Alternative models of the development process are analyzed and evaluated on the basis of how well the models actually performed in developing countries during the ’60s, ’70s, and ’80s. The feasibility of future policy options is discussed given present internal political conditions and the current global economic climate. Different regions of the world are emphasized based on class interest. Prerequisites: ECON-12100–ECON-12200; two additional courses in humanities, social sciences, or business. 3 credits. (IRR)

ECON-32100 Money and Banking
Descriptive and theoretical treatment of money, banking, and credit phenomena in the United States. Monetary media, monetary standards, credit instruments, commercial and central banking operations, organization and operation of the Federal Reserve System, international monetary mechanisms, monetary theory, and past and present monetary policies. Prerequisites: ECON-12100–ECON-12200; two courses in humanities, social sciences, or business. 3 credits. (F, Y)

ECON-32200 Monetary Theory and Policy
Analysis of money and the monetary system in determining the level, composition, and growth of national income and the price level. Alternative theories of the supply and demand for money and the determination of interest rates. Appraisal of the impact of monetary policy on unemployment, inflation, and economic growth. Strategies of monetary policy management, including analysis of policy targets and indicators, and contemporary policy decision making. Comparison of monetary policy with other stabilization policies, including fiscal policy, incomes policies, and indexing. Prerequisites: ECON-32100 or FINA-20300. 3 credits. (S, Y)

ECON-32500 Public Finance
Study of the public sector’s policy in budgeting, taxing, and spending, and an analytical assessment of the impact of fiscal policy from the point of view of macroeconomic objectives and welfare criteria. Planning programming and budgeting systems. Prerequisites: ECON-12100–ECON-12200; two courses in humanities, social sciences, or business. 3 credits. (S, Y)

ECON-33300 Econometrics I
Statistical methods, simple and multiple regression analysis, and forecasting techniques applied to economic analysis. Exposure to statistical and econometric packages. Prerequisites: ECON-12100–ECON-12200; MATH-14400; MATH-24300; MATH-24400. 3 credits. (F, Y)

ECON-33400 Econometrics II
Advanced topics in econometrics, including problems in regression (multicollinearity, autocorrelation, heteroscedasticity), tests of linear restrictions, dummy variables, distributed lags, and simultaneous-equation models. Exposure to econometric computer packages. Prerequisites: ECON-33300. 3 credits. (S, E)

ECON-34100 Micro Analysis
Analysis of the allocation of resources, organization, and guidance of production, distribution of income, and regulation of consumption in a social economy, involving thorough consideration of the philosophy, language, concepts, measurement, and mathematics of the theories of demand, production, and markets for the firm. Not available to students who have taken ECON-34000. Prerequisites: ECON-12100–ECON-12200; two courses in the humanities, social sciences, or business. 3 credits. (F, Y)

ECON-34200 Macro Analysis
Study of the concepts of wealth, output, and income; the process of saving and investment and its implications; the role of the government sector and of monetary policy; the theory of employment and output determination; and the problems caused by the requirement of economic growth. Not available to students who have taken ECON-34000. Prerequisites: ECON-12100–ECON-12200; two courses in the humanities, social sciences, or business. 3 credits. (S, Y)

ECON-36800 Current International Economic Issues
Provides a working knowledge of contemporary issues in international economics. Analysis of balance of payments cycle, United States’ balance of payments problems, foreign policy alternatives, and the institutions that further economic cooperation. Eurodollars, exchanging notes, and multinational corporations are also considered. Prerequisites: ECON-32100; permission of instructor. 3 credits. (S, Y)

ECON-37200 Industrial Organization Economics
Extends and refines the economic theory of the firm to which students are exposed in economics principles courses. Drawing empirical evidence primarily from U.S. industries, it examines theories concerning the motives of firms, barriers to entry, product differentiation, and interdependence among firms. It also examines U.S. antitrust policy and regulatory issues. Prerequisites: ECON-12100–ECON-12200; two courses in humanities, social sciences, or business. 3 credits. (F or S, Y)

ECON-38200 Economics of Growth
Analysis and description of the process of economic growth. A study of the role of government policy in affecting the growth of national output and the growth of factors of production that will sustain growth of national output. Topics include determinants of saving, investment in human and nonhuman capital, measurement of productivity of resources, and description of the generalized resource known as total factor. Prerequisites: ECON-12100–ECON-12200; MATH-10800 or MATH-11100; two courses in humanities, social sciences, or business. 3 credits. (F, Y)

ECON-41100 International Economics
Study of international trade patterns, gains from trade, and international investment, both private and government. Issues discussed include pros and
ECON-41300  Economic Fluctuations and Forecasting  SS LA
This course examines a variety of theories that explain the nature of economic fluctuations. The history of expansions and recessions in the United States is reviewed. Statistical techniques for forecasting the major macroeconomic variables are presented in detail. Various forecasting strategies, such as large-scale econometric models and the leading indicators, are evaluated. Prerequisites: ECON-33300; ECON-34200; MATH-24300. 3 credits. (S, O)

ECON-41600  Economics of Human Resources  SS LA
Analysis of activities that influence future monetary and psychic income by increasing the resources of people, including skills, knowledge, and physical capacities. The activities are investments in human resources or human capital, including investments in health, education, welfare, job search, migration, and on-the-job training. The course includes an analysis of these investments in a theoretical framework supported by a survey of empirical studies. Primarily for economics majors, but open to nonmajors by permission. Prerequisites: ECON-12100–ECON-12200; senior standing; or equivalent. 3 credits. (S, O)

ECON-49000  Internship  NLA
Designed to offer applications of economic concepts. Business, banking, law, government, and not-for-profit agencies provide the settings. The student is expected to prepare a log of activities, an interim report, and a final report consisting of an economic analysis of the internship experience. Must be taken in the United States or London. All guidelines of the School of Humanities and Sciences must be followed. Prerequisites: Senior standing as major in the department or, with permission of the department, junior standing. 1–6 credits. (F-S, Y)

ECON-49200  Special Problems in Economics (Tutorial)  U LA
Guided research, study, and writing on subjects selected by faculty-student consultation. Prerequisites: ECON-12100–ECON-12200; senior standing. 3 credits. (F, Y)

ECON-49900  Independent Study  U LA
Program of special reading and research under supervision of the department. Offered on demand only. Prerequisites: ECON-12100–ECON-12200; senior standing; or by special permission of the department. 1–4 credits.

EDUCATION
Patricia Tempesta, Assistant Professor and Interim Chair
The Department of Education coordinates all teacher education programs, both undergraduate and graduate, for the School of Humanities and Sciences. In addition to offering courses required for H&S teacher education programs, the department offers a limited number of open elective courses. The department also promotes educational outreach for teacher education programs campus-wide by sponsoring seminars, workshops, and conferences for teachers and prospective teachers. It administers a number of formal partnerships with area schools including Partnership in Teaching, Access to Education (ACE), Ithaca College–Frederick Douglass Academy Partnership, and the Ithaca College–South Hill School Partnership, Ithaca College–Boynton Middle School Partnership, and the Ithaca College–Frederick Douglass Academy Partnership.

The Office of Teaching and Certification, housed in the Department of Education, assists all teacher education students with issues pertaining to teacher certification. This office also maintains data on all student teacher placements, and serves as the chief liaison with the New York State Department of Education on all teacher education matters.

Undergraduate teaching certification programs are offered in the following areas:

School of Health Sciences and Human Performance
- Health Education
- Health Education and Physical Education
- Physical Education

School of Humanities and Sciences
- Art
- Biology
- Chemistry
- English
- French
- German
- Mathematics
- Mathematics–Computer Science
- Physics
- Social Studies
- Spanish

School of Music
- Music Education
- Performance/Music Education

Overall, Ithaca College students who complete the teacher preparation program consistently score in the 98th percentile or higher on New York State Teacher Certification Exams. For more information, see the New York State Education Department Office of Teaching Initiatives website (www.highered.nysed.gov/teer/respublic/teir.htm).

Required Core Program
The following required core program is for all teacher education candidates in the School of Humanities and Sciences. For requirements in other schools' teacher education programs please see the listings under those schools.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>EDUC-21910</td>
<td>Early Field Experience: Theory and Practice</td>
<td>3</td>
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<tr>
<td>COMP-20100</td>
<td>Technology for the Middle/Secondary School Teacher</td>
<td>2</td>
</tr>
<tr>
<td>EDUC-10100</td>
<td>Literacy Education for the Middle/Secondary School Teacher</td>
<td>2</td>
</tr>
<tr>
<td>EDUC-23900</td>
<td>Educating Children with Special Needs</td>
<td>2</td>
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<tr>
<td>EDUC-22900</td>
<td>Second Language Acquisition: Its Nature and Meaning for Educators</td>
<td>2</td>
</tr>
<tr>
<td>PSYC-21010</td>
<td>Educational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-34000</td>
<td>Social and Cultural Foundations of Education</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-30810</td>
<td>Pedagogy and Practice across the Disciplines</td>
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<tr>
<td>EDUC-30510</td>
<td>Pedagogy and Practice for the Mathematics Teacher or</td>
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<tr>
<td>EDUC-31010</td>
<td>Pedagogy and Practice for the Science Teacher or</td>
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<td>EDUC-31110</td>
<td>Pedagogy and Practice for the English Teacher or</td>
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</tr>
<tr>
<td>EDUC-31210</td>
<td>Pedagogy and Practice in the Teaching of Social Studies or</td>
<td></td>
</tr>
<tr>
<td>EDUC-31310</td>
<td>Pedagogy and Practice of Teaching Languages Other than English</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-41210</td>
<td>Seminar in Reflective Practice</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-49810</td>
<td>Professional Seminar in Education</td>
<td>12</td>
</tr>
<tr>
<td>EDUC-11000</td>
<td>Child Abuse Identification and Prevention</td>
<td>0</td>
</tr>
<tr>
<td>EDUC-11100</td>
<td>Drug and Alcohol Abuse: Identification and Prevention</td>
<td>0</td>
</tr>
</tbody>
</table>

Total, required core in education 38

Additional Requirements
1. All teaching-option students must successfully complete a year of college-level study in a language other than English. Students may test out of this requirement by taking the language placement test and placing at level 2 or above. Some departments require two years of language study; please consult departmental requirements.

2. All teaching-option students must successfully complete a writing course at the numbered WRTG-10600 or above.

3. All teaching-option students must successfully complete the second-year review and maintain a minimum 2.75 GPA in their subject. Some departments require a higher GPA; please consult departmental requirements. If a student receives an unsuccessful review or a review with stipulations, the student must participate in and successfully pass a second review the following year. Unsuccessful reviews and reviews with stipulations will be accompanied by a written statement outlining what must be done before the next review is completed.

4. Students must earn a grade of B or better in the pedagogy sequence to qualify for student teaching. A grade of B- does not qualify.

5. EDUC-49810 Professional Seminar in Education and EDUC-41210 Seminar in Reflective Practice constitute a full course load during the student-teaching semester. No additional courses may be taken.

6. All candidates for initial certification must successfully complete all three sections of the New York State Teacher Certification Examinations: the liberal arts and sciences test, the assessment of teaching skills-written, and the content area exam.

7. The student’s department chair and the education department chair in the School of Humanities and Sciences must approve any exceptions to the above requirements.
EDUCATION COURSES

EDUC-10100  Literacy Education for the Middle/Secondary School Teacher  U LA
Provides prospective middle- and secondary-level teachers with an understanding of the theory and process of literacy development and how it can be integrated with discipline-specific curricula and pedagogies. Topics include theories behind language and literacy development, the cognitive consequences of linguistic and language, secondary-level reading and writing as a process, media literacy, and an introduction to discipline specific literacy. 2 credits. (Y)

EDUC-11000  Child Abuse Identification and Prevention  U LA
All candidates for teaching certification must attend a two-hour workshop on child abuse identification and prevention. The workshop is offered once each semester. 0 credits. (F-S)

EDUC-11100  Drug and Alcohol Abuse: Identification and Prevention  A two-hour workshop on the identification and prevention of drug and alcohol abuse. This workshop is required for teaching certification candidates in music education, physical education, and all H&S teacher education programs. The workshop is offered at least once each semester. 0 credits. (F-S)

EDUC-20000  Education and Society  SS LA 1b, h
Open elective for students interested in exploring educational issues and the interaction between schools and society. Includes study of the history and philosophy of U.S. education, educational systems in other countries, and research and opinion concerning contemporary educational policy and practice. Students use course materials as a lens for reflecting on their own school experience and for developing informed positions about how to improve U.S. schools. 3 credits. (F-S)

EDUC-21000–EDUC-21100 Mentoring in the Community  SS NLA
Ithaca College students work as mentors with area high school students who have been identified as having aptitude for, but limited access to, college education. Mentors meet regularly with the high school students, providing social and academic reinforcement to support their option to attend college. Two semesters required. All students must take EDUC-21000 before enrolling in EDUC-21100. Prerequisites: Completion of application form; sophomore standing or above; permission of instructor. 4 credits; 2 credits each semester. (F-S-Y)

EDUC-21910  Early Field Experience: Theory and Practice  U LA
This course is required for and open to only students who have declared a teaching option in H&S or in speech-language pathology and audiology. It introduces students to the public and private education system in an extended field experience; each student completes 50 hours of fieldwork in a classroom setting. This is a coordinated offering of Ithaca College and the area schools. Prerequisites: Teaching option major in H&S or in speech-language pathology and audiology; sophomore standing; EDUC-11000–EDUC-11100 (may be taken concurrently). 3 credits. (F-S-Y)

EDUC-22000  Issues in Elementary Education  SS LA
Investigates contemporary issues in elementary education, including historical development of elementary classroom practice (emphasis on reading instruction); philosophical and psychological theories of learning; women’s role in elementary school teaching; children’s literature and storytelling in child development; the impact of societal problems on children and families; media literacy initiatives in elementary schools; assessment practices; conflict resolution; family involvement in children’s schooling; multicultural understandings; and calls for, and examples of, school reform. Prerequisites: Sophomore standing or above. 3 credits. (F-S-Y)

EDUC-34000  Social and Cultural Foundations of Education  SS LA
Required for all students in teacher certification programs, but open to other students as well. Combines historical, philosophical, sociological, and anthropological perspectives to investigate contemporary social and cultural issues in education and teaching. Provides preparation for critically reflective decision making and for working effectively with diverse students and communities. Topics include: equal educational opportunity; the funding of U.S. schools; tracking/ability grouping; the sociocultural dynamics of teaching and learning; multicultural education; social class issues; gender bias and equity; the experiences of African American, Latino, Asian American, and linguistic minority students in U.S. schools; educating students with disabilities; the role of religion in U.S. schools; issues of sexuality; working with families and communities; developing schools as caring learning communities; effective uses of technology; and recent proposals for school reform. Prerequisites: Three social science or humanities courses. 3 credits. (F-S)

EDUC-36000  Education for Social Change  LA
Investigating schools and teaching as forces for constructive social change, exploring how educators can create learning experiences in schools, classrooms, youth programs, and communities that will contribute to the school success of all youth and the development of a more equitable and just society. Particular attention paid to democratic approaches to teaching and learning; multicultural education; critical reflection; experiential learning; youth activism; community-based education; and innovative uses of technology. The course reflects in its process many of the topics studied. Students participate in the design of the syllabus and engage in project-centered learning, including a culmination of individual group work, class discussion, and weekly volunteer projects. Prerequisites: Sophomore standing or above; one of the following: EDUC-20000, EDUC-21000–EDUC-21100, EDUC-34000, PSYC-21010, or permission of the instructor. 3 credits. (S-Y)

EDUC-37000  Culture and Community in Education and Teaching  LA, 1b, SS
A sociocultural analysis of schools, teaching, and learning for the purpose of creating more effective educational experiences for culturally diverse learners. Students learn to incorporate knowledge about race, ethnicity, gender, and other important aspects of culture into the design of schools and educational programs and lessons. Particular attention is given to cultural information about African American, Latino, and Asian American youth and families. All students in the course work a minimum of three hours a week with youth in a community program or school and develop projects specific to their interests and community placements. 3 credits. (Y)

Pedagogy Courses in Teaching

EDUC-31410  Pedagogy and Practice for the Art Teacher  U NLA
Must be taken with EDUC-30810 Pedagogy and Practice across the Disciplines. Examines the teaching of visual art to students in elementary, middle, and secondary levels. This course will provide grounding in the history of art education in the United States, current theory and practice of teaching art, and artistic development in children and adolescents. Emphasis is placed on the New York State standards in the visual arts for development of art lessons that contain relevant objectives, motivation, methodology, and evaluation techniques. Various art materials, techniques, and processes suitable for K–12 levels will be examined. Additional topics are incorporating art history, aesthetics, and art criticism in the curriculum; health and safety issues of art materials; art room organization; selecting and ordering supplies; and fostering professionalism. This course also provides practice in developing teaching skills through presentation of lesson plans in various media at the elementary, middle, and secondary levels; 20 hours of observation and fieldwork in local public schools are required. Prerequisites: EDUC-21910; EDUC-34000; PSYC-21010; concurrent enrollment in EDUC-30810. 3 credits. (F-Y)

EDUC-40810 Pedagogy and Practice across the Disciplines  U NLA
The course explores the general teaching methods that span the disciplines and shifts the focus from a content-based to a student-based approach at the secondary level. As a transition to student teaching this course offers practice in educational planning, special topics related to classroom instruction, and development of teaching skills through student teaching presentations. There is a required minimum of 10 hours of guided observations/teaching in middle and secondary schools. Prerequisites: EDUC-21910; EDUC-34000; PSYC-21010; concurrent enrollment in the pedagogy and practice course in the discipline. 3 credits. (S-Y)

EDUC-40510 Pedagogy and Practice for the Mathematics Teacher  NLA
Examines the teaching of mathematics in the middle and secondary levels, including current knowledge and research on the learning of mathematics for all students, national and state standards, the New York State mathematics curriculum, professional journals and organizations, supplemental instructional techniques, appropriate use of technology and assessments, and actual practice in teaching. Twenty-hour field experience component. Prerequisites: EDUC-21910; EDUC-34000; PSYC-21010; senior standing; concurrent enrollment in EDUC-40810. 3 credits. (F-Y)

EDUC-41080 Pedagogy and Practice for the Science Teacher  U NLA
For students seeking certification in biology, chemistry, or physics. Examines the teaching of science on the middle and secondary levels, including current knowledge on the learning of science. Includes special considerations for teaching laboratory sciences, including laboratory safety. Topics include the appropriate use of technology in science education; the adaptations needed for students who are gifted and talented, students who have disabilities, and students with other special needs; and continued professional development of the teacher after certification. Students will examine professional journals and
organizations as well as the New York State science curriculum. Twenty hours of observation and fieldwork in local public schools. Prerequisites: EDUC-21910; EDUC-34000; PSYC-21010; concurrent enrollment in EDUC-40810. 3 credits. (F,Y)

EDUC-41110 Pedagogy and Practice for the English Teacher

Claire Gleitman, Associate Professor and Chair

The English curriculum provides a broad chronological study of Western literature from ancient to modern, as well as concentrated study in British and American literature. In cooperation with the College’s Department of Education, it also provides a program through which prospective secondary school teachers can apply for New York State teaching certification upon graduation.

Since departmental requirements and course offerings often change between catalog printings, students should be aware that the most current information concerning the English major can be obtained from the student’s adviser, from the chair of the department, or from the departmental secretary. Each semester the department publishes detailed descriptions of literature courses planned for the following semester in the Humanities and Sciences Supplement.

Requirements for Honors in English

Students with a sufficiently high grade point average in all their courses receive their degree with College honors. Students who fulfill the appropriate departmental requirements also graduate with honors in their major. To qualify to pursue honors in English, a student must have received a grade of A- or above in at least three English courses, two of which must be at level 3 or 4 and/or be required for the major. Detailed requirements for the honors project are available from the departmental secretary. In summary, they are as follows:

1. Successful application to candidacy by fulfillment of prerequisites, support for the project from a faculty mentor, and formal submission of a letter of application to the department chairperson.

2. Successful completion of a course of independent study with the mentor, which will involve completion of an extensive annotated bibliography in the candidate’s chosen field, a prospectus of 1,000-1,500 words describing the thesis he or she aims to write, and an oral examination to determine the candidate’s preparedness for the next stage.

3. Successful completion of a second course of independent study with the mentor, during which the student will write the thesis — usually a long essay written under supervision of the mentor and read by a committee of three faculty members.

Students who wish to earn departmental honors are advised to inform the chair as early in their college careers as possible so that they can ascertain well in advance appropriate courses, readings, and faculty sponsors for the project.

Requirements for the Major in English — B.A.

Credits in the major

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL-11300</td>
<td>Introduction to Poetry</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-21900</td>
<td>Shakespeare</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-20100</td>
<td>Critical Practice</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Three courses before 1900, to be selected from</td>
<td></td>
</tr>
<tr>
<td></td>
<td>the following list: ENGL-23200; ENGL-27100 or</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ENGL-37300; ENGL-27200, ENGL-28100 or ENGL-37700;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ENGL-37100</td>
<td></td>
</tr>
<tr>
<td></td>
<td>One course in 20th- or 21st-century literature,</td>
<td></td>
</tr>
<tr>
<td></td>
<td>to be selected from the following list: ENGL-21600,</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ENGL-21800, ENGL-22500, ENGL-32000, ENGL-36300,</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ENGL-37800, ENGL-38200, ENGL-31200, ENGL-35000</td>
<td></td>
</tr>
<tr>
<td></td>
<td>One course in world/multicultural literature to</td>
<td></td>
</tr>
<tr>
<td></td>
<td>be selected from the following list: ENGL-21100,</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ENGL-22100, ENGL-22200, ENGL-23100, ENGL-26500,</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ENGL-37100, ENGL-36900</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Foreign language through the intermediate level</td>
<td>0–12</td>
</tr>
<tr>
<td></td>
<td>(or demonstrated equivalent proficiency)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Electives in English (9 credits must be at levels</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>3 or 4)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Electives (the exact number depends upon student’s</td>
<td>72–84</td>
</tr>
<tr>
<td></td>
<td>language proficiency)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total, B.A. in English</td>
<td>120</td>
</tr>
</tbody>
</table>

All English majors are also required to complete a foreign language through the intermediate level or demonstrate equivalent proficiency as part of their major requirements.

Requirements for the Minor in English

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL-11300</td>
<td>Introduction to Poetry</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-21900</td>
<td>Shakespeare</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Level-3 or level-4 courses</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Literature electives</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Total, minor in English</td>
<td>21</td>
</tr>
</tbody>
</table>

Of the courses counted toward the 21 required credits, no more than 6 credits shall be in any one period. Students who wish to declare the English minor must do so, at the latest, in the semester previous to the semester in which they graduate.

ENGLISH

Bachelor of Arts

Claire Gleitman, Associate Professor and Chair
### Requirements for English — B.A. with Teaching Option

<table>
<thead>
<tr>
<th>Credits in the major</th>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL-11300</td>
<td>Introduction to Poetry</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-21900</td>
<td>Shakespeare</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-20100</td>
<td>Critical Practice</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Three courses before 1900, to be selected from the following list: ENGL-23200, ENGL-27100 or ENGL-37300, ENGL-27200, ENGL-28100 or ENGL-37700, ENGL-31900</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>One course in 20th- or 21st-century literature, to be selected from the following list: ENGL-21600; ENGL-21800; ENGL-22500; ENGL-32000; ENGL-34500; ENGL-37800; ENGL-38200; ENGL-31200; ENGL-35000</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Foreign language through the intermediate level (or demonstrated equivalent proficiency)</td>
<td>0-12</td>
</tr>
<tr>
<td></td>
<td>Electives in English (9 credits must be at level 3 or 4)</td>
<td>12</td>
</tr>
<tr>
<td>EDUC-21910</td>
<td>Early Field Experience: Theory and Practice</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-20100</td>
<td>Technology for the Middle/Secondary School</td>
<td>2</td>
</tr>
<tr>
<td>EDUC-10100</td>
<td>Literacy Education for the Middle/Secondary School</td>
<td>2</td>
</tr>
<tr>
<td>SLPA-23900</td>
<td>Education Children with Special Needs</td>
<td>2</td>
</tr>
<tr>
<td>SLPA-22900</td>
<td>Second Language Acquisition: Its Nature and Meaning for Educators</td>
<td>2</td>
</tr>
<tr>
<td>PSYC-21010</td>
<td>Educational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-34000</td>
<td>Social and Cultural Foundations of Education</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-30810</td>
<td>Pedagogy and Practice across the Disciplines</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-31110</td>
<td>Pedagogy and Practice for the English Teacher</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-41210</td>
<td>Seminar in Reflective Practice</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-49810</td>
<td>Professional Semester in Education</td>
<td>12</td>
</tr>
<tr>
<td>EDUC-11100</td>
<td>Child Abuse Identification and Prevention</td>
<td>0</td>
</tr>
<tr>
<td>EDUC-11100</td>
<td>Drug and Alcohol Abuse: Identification and Prevention</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Electives (the exact number depends upon student’s foreign language proficiency)</td>
<td>34-46</td>
</tr>
<tr>
<td>Total, B.A. in English with teaching option</td>
<td>120</td>
<td></td>
</tr>
</tbody>
</table>

#### Additional requirements

1. All teaching-option students must successfully complete a year of college-level study in a language other than English. All English majors are required to complete a foreign language through the intermediate level or demonstrate equivalent proficiency as part of their major requirements.

2. All teaching-option students must successfully complete a writing course numbered WRTG-10600 or above.

3. All teaching-option students must successfully complete the second-year review and maintain a minimum 2.75 GPA in their subject. If a student receives an unsuccessful review or a review with stipulations, the student must participate in and successfully pass a second review the following year. Unsuccessful reviews and reviews with stipulations will be accompanied by a written statement outlining what must be done before the second review is completed.

4. Students must earn a grade of B in English. Students must be enrolled in one of the following English courses: ENGL-21900 Shakespeare, ENGL-38200 The Enlightenment (1660–1770), or ENGL-38300 Modern Literature I.

5. Students must participate in and successfully pass the following English department course listing for courses currently offered: ENGL-11300 Introduction to Poetry, ENGL-21900 Shakespeare, ENGL-27200 The Enlightenment (1660–1770), or ENGL-38200 The Enlightenment (1660–1770).

6. All candidates for initial certification must successfully complete all three sections of the New York State Teacher Certification Examinations: the liberal arts and sciences test, the assessment of teaching skills-written, and the content area exam.

7. The student’s department chair and the coordinator of teacher education must approve any exceptions to the above requirements.

#### Minor in Comparative Literature

There are 21 credits in the minor (of which 9 credits must be level 3 or 4).

**General literature — A total of 6 credits selected from the following (only one may be an ‘Introduction’):**

<table>
<thead>
<tr>
<th>Credits in the minor</th>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL-10700</td>
<td>Introduction to Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-11000</td>
<td>Introduction to Fiction</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-23100</td>
<td>Ancient Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-23200</td>
<td>Medieval Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-27100</td>
<td>Renaissance Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-34500</td>
<td>Studies in the Novel</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-38200</td>
<td>Modern Literature I</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-38300</td>
<td>Modern Literature II</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-41000</td>
<td>Seminar in Medieval English Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-43000</td>
<td>Seminar in the English Renaissance</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-48000</td>
<td>Studies in Literary Criticism</td>
<td>3</td>
</tr>
</tbody>
</table>

#### The following European literature courses

<table>
<thead>
<tr>
<th>Credits in the minor</th>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>FREN-31200</td>
<td>French Literature in Translation</td>
<td>3</td>
</tr>
<tr>
<td>GERM-15200</td>
<td>German Literature in Translation</td>
<td>3</td>
</tr>
<tr>
<td>SPAN-26600</td>
<td>Spanish/Latin American Literature in Translation</td>
<td>3</td>
</tr>
</tbody>
</table>

(Note: Students proficient in a foreign language may substitute 3 credits of literature in the foreign language.)

#### One of the following British literature courses

<table>
<thead>
<tr>
<th>Credits in the minor</th>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL-21600</td>
<td>Contemporary British Fiction</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-21900</td>
<td>Shakespeare</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-27200</td>
<td>The Enlightenment (1660–1770)</td>
<td>3</td>
</tr>
</tbody>
</table>

#### One of the following American literature courses

<table>
<thead>
<tr>
<th>Credits in the minor</th>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL-10500</td>
<td>Introduction to American Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-31900</td>
<td>Great American Writers before 1890</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-32000</td>
<td>Great American Writers after 1890</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-37000</td>
<td>American Poetry</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-37200</td>
<td>Studies in American Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-47000</td>
<td>Seminar in American Literature</td>
<td>3</td>
</tr>
</tbody>
</table>

Total, minor in comparative literature 21

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**ENGLISH COURSES**

### Introductory Literature Courses

This category is intended mainly for nonmajors, and no more than 6 credits (with the exception of ENGL-11300 Introduction to Poetry and ENGL-21900 Shakespeare) can be counted toward the fulfillment of requirements in the English major. However, some courses that concentrate on basic practice in critical reading of literature and in critical writing are strongly recommended for beginning English majors.

**ENGL-10500 Introduction to American Literature**

- Study of literary modes, such as fiction, poetry, essays, and drama, in which American writers have expressed ideals of individual conduct and social relationships or have appraised and challenged the practices of society.
- Emphasis is placed on class participation. 3 credits. (F-S,Y)

**ENGL-10700 Introduction to Literature**

- Works of English, American, or European literature from early or recent times are considered in relation to one or more recurrent themes. Emphasis is placed on class participation. 3 credits. (F-S,Y)

**ENGL-10900 Introduction to Drama**

- Critical discussion of drama, covering a broad range of forms and techniques, with an emphasis placed on class participation. Recommended for beginning English majors. Also offered through the London Center. 3 credits. (F-S,Y)
ENGL-11000 Introduction to Fiction
Critical discussion of fiction, covering a broad range of forms and techniques. Emphasis is placed on class participation. Recommended for beginning English majors. Also offered through the London Center. 3 credits. (F-S,Y)

ENGL-11200 Introduction to the Short Story
Critical discussion of short stories, covering a broad range of forms and techniques, with an emphasis placed on class participation. 3 credits. (F-S,Y)

ENGL-11300 Introduction to Poetry
Critical discussion of poetry, covering a broad range of forms and techniques, with an emphasis placed on class participation. Recommended for beginning English majors. 3 credits. (F-S,Y)

ENGL-20100 Critical Practice
An examination of the discipline of literary studies. Explores issues that concern literary critics as they read and write about works of literature, including the historical development of literary studies, canonicity, the conventions of literary-critical discourse, and the assumptions and interpretive consequences of different theoretical and critical approaches to literature. Designed to develop skills for reading both primary and secondary texts. Intended for English majors; open to nonmajors on a space-available basis. Prerequisites: One course in English. 3 credits. (S,Y)

ENGL-21000 The Literature of Horror
Survey of horror literature from its commercial origins in the 18th century through contemporary writers. Writers whose works are examined include Edgar Allan Poe, Henry James, Franz Kafka, Bram Stoker, and H. P. Lovecraft. Prerequisites: One course in literature. 3 credits. (S,Y)

ENGL-21100 Jewish-American Writers
Study of dramatists, short stories, and novels of Jewish-American writers who have gained prominence since the 1950s, such as Miller, Malamud, Mailer, Singer, Roth, and Bellow. Prerequisites: One course in the humanities or social sciences, or sophomore standing. 3 credits. (F or S,Y)

ENGL-21400 Science Fiction
Survey of fantasy and science fiction from H. G. Wells to Harlan Ellison. Prerequisites: One course in the humanities or social sciences, or sophomore standing. 3 credits. (IRR)

ENGL-21600 Contemporary British Fiction
Deals with works of British fiction since World War II for their literary value and for their portrayal of British society during the last five decades. Prerequisites: One course in the humanities or social sciences, or sophomore standing. 3 credits. (F or S,Y)

ENGL-21800 Twentieth-Century American Drama
Study of the leading American dramatists of the 20th century, such as O'Neill, Behrman, Odets, Sherwood, Anderson, Wilder, Hellman, Miller, Williams, Inge, Albee, and Eliot. Prerequisites: One course in the humanities or social sciences, or sophomore standing. 3 credits. (F or S,Y)

ENGL-21900 Shakespeare
Study of six to eight Shakespeare plays as examples both of the way dramatic literature works and of the achievement of the greatest of English writers. Since plays vary each semester, course may be repeated once for credit. Prerequisites: One course in the humanities or social sciences, or sophomore standing. Also offered through the London Center. 3 credits. (F-S,Y)

ENGL-22000 Black Women Writers
Study of black women writers such as Hurston, Angelou, Morrison, and Walker. Prerequisites: One course in the humanities or social sciences, or sophomore standing. 3 credits. (F or S,Y)

ENGL-22100 Survey of African American Literature
A study of African American literature from the slave narrative to the present. Writers whose works are examined include Frederick Douglass, W. E. B. Du Bois, Zora Neale Hurston, Richard Wright, and Toni Morrison. Prerequisites: One course in the humanities or social sciences, or sophomore standing. 3 credits. (F or S, Y)

ENGL-22500 Literary Modernism and the Visual Arts
Introduction to the concept of literary modernism as it developed from 1900 to 1925, a period during which a close relationship between literature and the visual arts existed. The use of the visual arts of the period as a lens through which to read modern literature provides an enhanced understanding of modern writers. Prerequisites: One course in literature; sophomore standing. 3 credits. (F,Y)

ENGL-23100 Ancient Literature
Works that have dominated the Western imagination and set standards for art and life for nearly 3,000 years: the epics of Homer and Virgil, the plays of Aeschylus, Sophocles, Euripides, and Aristophanes, and selections from the Bible. Prerequisites: One course in the humanities or social sciences, or sophomore standing. 3 credits. (F or S,Y)

ENGL-23200 Medieval Literature
Readings are drawn from the northern European epic, medieval romances, and medieval drama. Also Dante, The Divine Comedy; Chaucer, Troilus and Criseyde, The Canterbury Tales. Prerequisites: One course in the humanities or social sciences, or sophomore standing. 3 credits. (F-S,Y)

ENGL-27100 Renaissance Literature
The continental backgrounds: Renaissance writers in Italy, France, and Spain. Major trends in English literature from the early 16th century through Milton, with an emphasis on Elizabethan and Jacobean drama. Prerequisites: One course in the humanities or social sciences, or sophomore standing. 3 credits. (F-S,Y)

ENGL-27200 The Enlightenment (1660–1770)
The neoclassical drama of France and England; Molière, Restoration comedy. Also Voltaire, major works of Dryden, Pope, Swift, and Johnson. The rise of the novel: Defoe, Fielding, Smollett, and Richardson. Prerequisites: One course in the humanities or social sciences, or sophomore standing. 3 credits. (F-S,Y)

ENGL-28100 Romantic-Victorian Literature
Romanticism in France and Germany; English romantic and Victorian poetry. The movement toward realism, especially in the French and English novel. Prerequisites: One course in the humanities or social sciences, or sophomore standing. 3 credits. (F or S,Y)

ENGL-29900 Independent Study
Reading and writing focused on an individual project arranged by a student with a particular faculty member. Offered on demand only. A maximum of 3 credits may be counted toward requirements for the English major or minor. Prerequisites: One literature course; sophomore standing. 1–3 credits. (IRR)

Upper-Level Courses
Upper-level courses are intended primarily for juniors and seniors but may be taken by sophomores who can meet the prerequisites.

ENGL-31100 Dramatic Literature
First semester: Studies in dramatic literature prior to Ibsen. Second semester: Studies in modern drama. Prerequisites: Any three courses in English, history of the theater, or introduction to the theater. 3 credits. (ENGL-31100-F, ENGL-31200-S,Y)

ENGL-31600 Creative Writing Workshop in Poetry
Discussion and practice in writing poetry. May be repeated for credit. Prerequisites: 9 credits of literature. 3 credits. (IRR)

ENGL-31800 Short Story
Survey of 19th- and 20th-century short stories, British and American, by Poe, Hawthorne, Crane, Joyce, Hemingway, Lawrence, Bowen, Nabokov, Updike, Malamud, and others. History and development of the short story. Prerequisites: 9 credits of literature. 3 credits. (IRR)

ENGL-31900 Great American Writers before 1890
Survey of American literature from the colonial period to 1890. Prerequisites: One course in literature. 3 credits. (IRR)

ENGL-32000 Great American Writers after 1890
Survey of American literature from 1890 to the present. Prerequisites: One course in literature. 3 credits. (IRR)

ENGL-32400 Literature of the Bible
A study of major narratives and poetry from the Bible, together with their influence on subsequent literature. Emphasis is placed on literary strategies and historical knowledge that enable critical understanding. Prerequisites: Three courses in the humanities. 3 credits. (S,E)
ENGL-32500 Studies in Medieval English Literature  
Topic varies. Prerequisites: 9 credits of literature. 3 credits. (F or S,Y)  

ENGL-33100 Studies in the English Renaissance  
Topic varies. Prerequisites: 9 credits of literature. 3 credits. (F or S,Y)  

ENGL-34100 Studies in the Enlightenment (1660-1770)  
Topic varies. Prerequisites: 9 credits of literature. 3 credits. (F or S,Y)  

ENGL-35000 Imagining Herself: Women's Autobiography  
Examination of the way women have employed autobiography as a form of self-expression and gender definition. Consideration of the way autobiographies differ from other forms of personal expression and how they can be analyzed as literary texts. Authors may include Beryl Markham, Zora Neale Hurston, Audre Lorde, Annie Dillard, Dorothy Allison, Maxine Hong Kingston, Nansi Mairs, May Sarton, and Temple Grandin. Prerequisites: Three courses in the humanities, one of which is an English course; sophomore standing. 3 credits. (F or S,Y)  

ENGL-35200 Studies in 19th-Century English Literature  
Topics vary. Prerequisites: 9 credits of literature. 3 credits. (F or S,Y)  

ENGL-36300 Irish Literature  
A study of the sudden flowering of Irish literature between 1885 and 1939, and its influence on the political and social history of the time. Readings from Yeats, Joyce, Synge, and O'Casey, as well as lesser known figures of the period. Also offered through the London Center. Prerequisites: 9 credits of literature. 3 credits. (IRR)  

ENGL-36500 Studies in the Novel  
Studies in the novel, with topics varying from semester to semester. Concentration may be on a theme, a period, a type, etc. Prerequisites: 9 credits of literature. 3 credits. (F or S,Y)  

ENGL-36900 Studies in Multicultural American Literature  
Studies in diverse voices in American literature, including African American, Jewish American, Native American, Hispanic American, and Asian American writers. Prerequisites: 9 credits of literature. 3 credits. (ES)  

ENGL-37000 American Poetry  
A survey of the main currents of American poetry from the middle of the 19th century to the present. Beginning with the poetry of Walt Whitman and Emily Dickinson, the course establishes the dialectic poles of attraction for American writing, concentrating on such major 20th-century poets as Robert Frost, Wallace Stevens, T. S. Eliot, William Carlos Williams, Theodore Roethke, Robert Lowell, and James Wright. Prerequisites: 9 credits of literature. It is recommended that students take either ENGL-11300 Introduction to Poetry or ENGL-10500 Introduction to American Literature prior to this course. 3 credits. (IRR)  

ENGL-37200 Studies in American Literature  
Studies in different selected figures in American literature each semester. Prerequisites: 9 credits of literature. Since content varies each semester, course may be repeated once for credit. Also offered through the London Center (F-S). 3 credits. (F or S,Y)  

ENGL-37300 Renaissance Drama  
Study of the English drama after Shakespeare. Visits to museums and sites in London for the background of the Jacobean and early Caroline periods. Readings from Beaumont, Fletcher, Ford, Jonson, Middleton, and Webster. Prerequisites: ENGL-21900 or ENGL-27100. Also offered through the London Center (S,Y). 3 credits. (IRR)  

ENGL-37400 Shakespeare and the Jews  
This course examines Shakespeare’s representations of Jews in light of three historical contexts: medieval English and continental literature about Jews; Elizabethan literary anti-Semitism and debates about usury, commerce, religion, and treason; and modern productions, rewritings, and critical readings of Shakespeare’s Merchant of Venice by both Jews and non-Jews. Prerequisites: 9 credits of literature courses, including ENGL-21900. 3 credits. (IRR)  

ENGL-37700 Nineteenth-Century British Novel  
The writings of Jane Austen, Charles Dickens, George Eliot, Henry James, and Thomas Hardy in their historical and cultural context. Critical approaches to the study of the novel. Prerequisites: 9 credits of literature. Also offered through the London Center (F). 3 credits. (F or S,Y)  

ENGL-37800 Twentieth-Century British Novel  
The development of the British novel from the end of the 19th century. A comparison of theme, style, and structure within the historical and cultural context. Authors such as James Joyce, D. H. Lawrence, E. M. Forster, Graham Greene, and William Golding. Prerequisites: 9 credits of literature. Also offered through the London Center (S,Y). 3 credits. (F or S,Y)  

ENGL-38200 Modern Literature I  
Introduction to modern literature through representative figures: Mann, Gide, Lawrence, Joyce, Yeats, Eliot, Auden. Prerequisites: 9 credits of literature. 3 credits. (IRR)  

ENGL-38300 Modern Literature II  
Supplement to ENGL-38200, providing a broader survey of modern literature. Such authors as Woolf, Conrad, Thomas, Forster, Waugh. Prerequisites: 9 credits of literature. 3 credits. (IRR)  

ENGL-38700 Teaching Literature in High School  
Designed for potential high school teachers of English. Study of various works of literature frequently taught in high school, with an emphasis on presentation to younger students. Prerequisites: 9 credits of literature. 3 credits. (IRR)  

SEMINARS AND TUTORIALS  
Open to upper-class English majors and to other upper-class students with permission of instructor. 3 credits. Seminars ENGL-41000 through ENGL-47900 vary in content from semester to semester and provide an opportunity for advanced research and discussion.  

ENGL-41000 Seminar in Medieval English Literature  
Prerequisites: ENGL-23200; permission of instructor. (F or S,Y)  

ENGL-42000 Seminar in Shakespeare  
Prerequisites: ENGL-21900; permission of instructor. (F or S,Y)  

ENGL-43000 Seminar in the English Renaissance  
Prerequisites: ENGL-27100; permission of instructor. (F or S,Y)  

ENGL-44000 Seminar in the English Enlightenment (1660–1770)  
Prerequisites: ENGL-27200; permission of instructor. (F or S,Y)  

ENGL-45000 Seminar in 19th-Century Literature  
Prerequisites: ENGL-38100; permission of instructor. (IRR)  

ENGL-46000 Seminar in 20th-Century English Literature  
Prerequisites: Four literature courses, at least two of which must be at level 2 or above; junior standing. (F or S,Y)  

ENGL-46500 Seminar in Drama  
Selected topics in classic or contemporary drama. Prerequisites: Four literature courses, or ENGL-31100, or ENGL-31200; permission of instructor. 3 credits. (F or S,Y)  

ENGL-47000–ENGL-47900 Seminars in American Literature  
Topics may include Hemingway, contemporary American poetry, Whitman/Dickinson, Hanshorne/James, 20th-century women writers, among others. Prerequisites: ENGL-31900 or ENGL-32000, if appropriate. Different prerequisites may be specified when appropriate. (F or S,Y)  

ENGL-48000 Studies in Literary Criticism  
Selected topics in the history and theory of literary criticism. Prerequisites: Four literature courses; permission of instructor. 3 credits. (IRR)  

ENGL-49500 Internship  
Allows students to combine literary study with on-site work experience under the guidance of a faculty supervisor. Internships require the approval of both the sponsoring agency and the faculty supervisor. Also available through the London Center. A maximum of 3 credits may be used to fulfill requirements for the English major. Prerequisites: Four literature courses; junior standing or above; permission of instructor. Variable credit. (IRR)  

ENGL-49801 Honors Project I  
First course in a two-semester sequence of independent work on an individual project arranged by the student with a particular faculty member. Research, writing, and discussion culminating in a proposal for an honors thesis and an extensive annotated bibliography, defended before a department honors committee. Prerequisite: Department approval. 3 credits. (F,Y)
ENGL-49802  Honors Project II  U LA
Second course in a two-semester sequence of independent work on an individual project arranged by the student with a particular faculty member. Research, writing, and discussion culminating in an honors thesis of approximately 50 pages, defended before a department honors committee. May not be used as elective credit in the English major. Prerequisite ENGL-49801. 3 credits. (S,Y)

ENGL-49900  Independent Study  U LA
Special research on an individual project arranged by a student with a particular faculty member. Final paper will be based on research in both electronic and print sources. Offered on demand only. A maximum of three credits may be used to fulfill requirements for the English major or minor. Prerequisites: Four literature courses; junior standing. 3 credits. (IRR)

ENVIRONMENTAL STUDIES

Susan Allen-Gil, Associate Professor and Coordinator

For information about environmental studies see the listing under “Individual and Interdisciplinary Studies Programs” on p. 201.

HISTORY

Bachelor of Arts

Zenon Wasylk, Associate Professor and Chair

History is the study of the successes and failures of humanity. It is the study of the political, economic, philosophical, theological, diplomatic, sociological, scientific, and military activity of humanity and of individual men and women, from the dawn of civilization to the present. For this reason, the study of history is the best method by which to comprehend the complexities of the modern world. Students who major in other disciplines find history an invaluable field in which to minor. Both history majors and history minors have gone into a variety of professional and graduate careers, such as law, business, international business, governmental service, politics, radio-television and performing arts, archaeological and museum work, teaching, and the helping professions.

Requirements for Honors in History

All students have the opportunity to graduate with honors in history. History majors must have at least a 3.50 GPA in the history major and a 3.00 GPA or better overall. They must also complete and defend an honors thesis. Non-history majors must have taken 21 credits of history with a GPA of at least 3.50, and have an overall GPA of at least 3.00. Students may enter this program in the junior year, but not later than the first two weeks of the senior year.

All honors candidates must have a sponsor and complete, to the satisfaction of the sponsor and the department chairperson, a department honors form giving the title and nature of the project. Two additional faculty members shall serve with the faculty sponsor as an examining committee. The project may be a new study or it may reflect substantial extension or reworking of topics developed in a course. The finished thesis must be defended and receive the favorable recommendation of the examining committee by the 10th week of the candidate’s final semester and be presented in open session before the history faculty. Honors are awarded only upon recommendation of the history department faculty.

Requirements for the Major in History — B.A.

Credits in the major — History majors must complete a minimum of 39 credits (i.e., 13 courses) in history, including the following:

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two courses of the survey of United States history (HIST-11100–HIST-11200)*</td>
<td>6</td>
</tr>
<tr>
<td>Two courses of the survey of Western civilization (HIST-10100–HIST-10200) or world civilization (HIST-18100–HIST-18200). A sequential combination of Western civilization and world civilization (HIST-10100 and HIST-18200 or HIST-18100 and HIST-10200) may be substituted for this two-course sequence. A minimum of two courses in European history at level 2 or above A minimum of two courses in United States history at level 2 or above A minimum of two courses in global history at level 2 or above A minimum of three courses in open history</td>
<td>6</td>
</tr>
</tbody>
</table>

Of these 27 history elective credits, 15 must be at level 3 or above; of these 15 credits, 6 credits must be either tutorials (HIST-49000, HIST-49100, HIST-49200) or seminars (HIST-48000, HIST-48100, HIST-48200). * Under unusual circumstances and with the consent of the student’s adviser and the department chair, appropriate substitutions for HIST-10100–HIST-10200, HIST-11100–HIST-11200, or HIST-18100–HIST-18200 may be made. Substitution is made only when the student demonstrates sufficient mastery of history to enter an upper-level course.

Electives

Total, credits in the major 39

Total, electives 81

Total, B.A. in history 120

No more than 3 credits at the grade of C– or below may be counted toward meeting the 39-credit requirement of the history major.

Note: Tutorials and seminars required in all history department programs must be taken at the Ithaca College campus.

Advanced Placement

Advanced placement (AP) credit is accepted under the following conditions:

1. A student must have an AP test score of 4 or higher to receive course-specific credit (i.e., HIST-11100, HIST-11200, or HIST-10200). If a student receives course-specific AP credit, he or she cannot also receive credit for the course.

2. A student with an AP test score of 3 may receive unspecified history credit (i.e., general credit without a particular designation), which may be used to fulfill distribution requirements. AP test scores below 3 receive no credit.

3. AP credit does not reduce the number of credits required by the major (including social studies and social studies with teaching option — see p. 149).

Recommendations

The Department of History strongly recommends that each history major, in consultation with his or her adviser, develop a course of study providing a balance between the various historical eras.

We also recommend that history majors take a minimum of three related courses in another humanities department (e.g., English, philosophy, art history) and in a social science department (e.g., economics, anthropology, politics) that serve to complement the student’s historical studies and provide insights from another discipline.

The history department encourages its majors to declare a minor in another discipline as a means of broadening their historical understanding and general educational background.

Students may take up to 18 credits a semester at no extra expense, allowing even greater variety within the major, double majors, and major-minor combinations.

Requirements for the Minor

The Department of History offers a minor requiring the completion of 21 credits in history of which three courses, including one tutorial or seminar, must be level 3 or above. Students who wish to earn a minor in history must fill out and submit a registration for a minor form. The chair will assign the student to a history adviser who will coordinate his or her advising with the student’s major adviser.

Requirements for Other Majors Offered by the History Department

In addition to the history major, the department offers two other majors — social studies and social studies with a teaching option. The department perceives the social studies major as useful for the student seeking a solid foundation in history integrated with relevant courses in the social sciences. The social studies with teaching option major leads to initial certification in the teaching of social studies on the secondary school level.

Requirements for the Major in Social Studies — B.A.

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>History, including 6 credits in United States and 6 credits in European history, and either two tutorials or one tutorial and one seminar</td>
<td>30</td>
</tr>
<tr>
<td>ECON-12100–12200</td>
<td>6</td>
</tr>
<tr>
<td>HIST-20300</td>
<td>6</td>
</tr>
<tr>
<td>Economics</td>
<td>6</td>
</tr>
<tr>
<td>Geography</td>
<td>3</td>
</tr>
<tr>
<td>Politics, including at least 3 credits in U.S. government and 3 credits at level 3 or higher Anthropology electives</td>
<td>6</td>
</tr>
<tr>
<td>Electives</td>
<td>66</td>
</tr>
<tr>
<td>Total required for degree</td>
<td>120</td>
</tr>
</tbody>
</table>
Requirements for Social Studies — B.A. with Teaching Option

Credits in the major

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST-11100</td>
<td>United States History to 1865</td>
<td>3</td>
</tr>
<tr>
<td>HIST-11200</td>
<td>United States History since 1865</td>
<td>3</td>
</tr>
<tr>
<td>HIST-18100</td>
<td>World Civilization I</td>
<td>3</td>
</tr>
<tr>
<td>HIST-18200</td>
<td>World Civilization II</td>
<td>3</td>
</tr>
<tr>
<td>HIST-20300</td>
<td>Introductory Geography</td>
<td>3</td>
</tr>
</tbody>
</table>

A minimum of two courses in European history at level 2 or above
A minimum of two courses in United States history at level 2 or above
A minimum of two courses in global history at level 2 or above
A minimum of one open history elective

Of the seven history elective courses, four must be at level 3 or above; of these four courses, one must be either a tutorial or a seminar.

Total, credits in the major: 36

Credits from other departments

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON-12100</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON-12200</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>SDIC-10100</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>POLT-10100</td>
<td>U.S. Politics</td>
<td>3</td>
</tr>
<tr>
<td>ANTH-10400</td>
<td>Cultural Anthropology</td>
<td>3</td>
</tr>
</tbody>
</table>

Total, credits from other departments: 15

Total, history and social sciences: 51

In addition to the social studies requirements listed above, social studies with teaching option majors must complete the following courses for certification.

Core education requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC-21910</td>
<td>Early Field Experience: Theory and Practice</td>
<td>3</td>
</tr>
<tr>
<td>COMP-20100</td>
<td>Technology for the Middle/Secondary School Teacher</td>
<td>2</td>
</tr>
<tr>
<td>EDUC-10100</td>
<td>Literacy Education for the Middle/Secondary School Teacher</td>
<td>2</td>
</tr>
<tr>
<td>SLPA-23900</td>
<td>Educating Children with Special Needs</td>
<td>2</td>
</tr>
<tr>
<td>SLPA-22900</td>
<td>Second Language Acquisition</td>
<td>2</td>
</tr>
<tr>
<td>PSYC-21010</td>
<td>Educational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-34000</td>
<td>Social and Cultural Foundations of Education</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-30810</td>
<td>Pedagogy and Practice across the Disciplines</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-31210</td>
<td>Pedagogy and Practice in the Teaching of Social Studies</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-41210</td>
<td>Seminar in Reflective Practice</td>
<td>3</td>
</tr>
<tr>
<td>EDUC-49810</td>
<td>Professional Semester in Education</td>
<td>12</td>
</tr>
<tr>
<td>EDUC-11000</td>
<td>Child Abuse Identification and Prevention</td>
<td>0</td>
</tr>
<tr>
<td>EDUC-11100</td>
<td>Drug and Alcohol Abuse: Identification and Prevention</td>
<td>0</td>
</tr>
</tbody>
</table>

Total, core education requirements: 38

Additional core requirements

1. All teaching-option students must successfully complete a year of college-level study in a language other than English. Students may test out of this requirement by taking the language placement test and placing at level 2.

2. All teaching-option students must successfully complete a writing course numbered WRTG-10600 or above.

3. All social studies teaching-option students must successfully complete the second-year review and maintain a minimum 3.00 GPA overall and in history courses. If a student receives an unsuccessful review or a review with stipulations, the student must participate in and successfully pass a second review the following year. Unsuccessful reviews and reviews with stipulations will be accompanied by a written statement outlining what must be done before the next review is completed.

4. No more than 3 credits at the grade of C- or below may be counted toward meeting the 36-credit requirement of the B.A. in social studies with teaching option.

5. Students must earn a grade of B or better in EDUC-30810 and EDUC-31210 to qualify for student teaching. A grade of B- does not qualify.

6. To qualify for student teaching, students must have a 3.00 GPA in history courses and a 3.00 overall GPA.

7. EDUC-49810 Professional Semester in Education and EDUC-41210 Seminar in Reflective Practice constitute a full course load during the student-teaching semester. No additional courses may be taken.

8. All candidates for initial certification must successfully complete all three sections of the New York State Teacher Certification Examinations: the liberal arts and sciences test, the assessment of teaching skills-written, and the content area exam.

9. The student’s department chair and the coordinator of teacher education must approve any exceptions to the above requirements.

HISTORY COURSES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>HU LA</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST-10100</td>
<td>Foundations of Western Civilization</td>
<td>HU LA</td>
<td>1, g</td>
</tr>
<tr>
<td>HIST-11100</td>
<td>United States History to 1865</td>
<td>HU LA</td>
<td>1, h</td>
</tr>
<tr>
<td>HIST-11200</td>
<td>United States History since 1865</td>
<td>HU LA</td>
<td>1, h</td>
</tr>
<tr>
<td>HIST-15100</td>
<td>The Past Is Present: The Relevance of History</td>
<td>HU LA</td>
<td></td>
</tr>
</tbody>
</table>

People tend quite naturally to think in present terms and see the world as it is around them. The present, however, does not exist independently of the past. This course uses a series of videotapes, readings, and group discussions to link the past to the present in a variety of ways. 3 credits. (F,Y)

HIST-18100  World Civilization I

A comparative survey of world civilizations from the beginnings of humanity to the age of exploration in the 16th century. Considers the nature of early hunting-gathering societies, the impact of agriculture, the introduction of metallurgy (bronze and iron), and the evolution of civilizations in Eurasia, Africa, and the New World. Students may not receive credit for both HIST-18100 and HIST-18200. Not open to seniors except by permission of instructor. 3 credits. (F,Y)

HIST-18200  World Civilization II

Continuation of HIST-18100, extending from the age of exploration in the 16th century to the present. Considers a “world made one” by the voyages of Columbus and others, the expansion of contacts into the 20th century, and the possible development of a global civilization. Students may not receive credit for both HIST-18200 and HIST-18200. Not open to seniors except by permission of instructor. 3 credits. (S,Y)

HIST-18500–HIST-18600 Selected Topics: Historical Studies

Occasional courses of an experimental nature are offered under these numbers and titles. These may be of lecture or seminar format, of great breadth or highly specialized. There are no prerequisites. This course may be repeated for credit for selected topics on different subjects. 3 credits. (IRR)
HIST-20300 Introductory Geography SS LA 1, g
Introduction to geography, emphasizing both the physical and cultural elements in the distribution patterns of human activity. May not be taken to fulfill history course requirements. Prerequisites: One course in the humanities or social sciences; sophomore standing. 3 credits. (O,E)

HIST-20900 Ethnic United States since the Civil War HU LA 1, h
Explores the cultures and social structures that various immigrant groups brought to the United States, their interaction with the dominant Anglo-Saxon culture, and the kind of multicultural society the United States has built (melting pot or tossed salad). Prerequisites: One course in the humanities or social sciences; sophomore standing. 3 credits. (S,Y)

HIST-21000 The United States Labor Movement HU LA 1, h
Explores labor history from 1840 to the 1970s. Based on two premises: first, that labor history is an essential ingredient to the understanding of American history; and second, that labor history must extend beyond traditional union history into the lives and aspirations of the workers themselves. Thus, the course looks beyond the union halls into the homes and hearts of the men and women who have built America. Prerequisites: HIST-11200, or one American history course at or above level 2, or one course in business or economics above level 1; sophomore standing. 3 credits. (IRR)

HIST-21100 The United States and Vietnam, 1945–1990 HU LA
Through readings, films, and student research, explores the history of the United States’ involvement in Southeast Asia from World War II to 1990. It emphasizes the origins and reason for the Vietnam War, the impact of the war on all participants, and the aftermath of the defeat of the U.S. effort. Prerequisites: One course in the humanities or social sciences; sophomore standing. 3 credits. (S,Y)

HIST-22100 Russian History HU LA 1, h, g
Russian history from antiquity to the 1917 revolution. Emphasis is placed on political, social, and intellectual developments. Prerequisites: One course in the humanities or social sciences; sophomore standing. 3 credits. (F,Y)

HIST-22200 Rise and Fall of the USSR HU LA 1, h, g
A study of Soviet ideology and politics from the 1917 revolution to the present, emphasizing the cause of the system’s disintegration. Prerequisites: One course in the humanities or social sciences; sophomore standing. 3 credits. (S,Y)

HIST-23100 The Ancient World: Greece and Rome HU LA 1, h, g
Introduction to the study of Egyptian and Greco-Roman civilization, including a general survey of political institutions and social and economic life. Prerequisites: One course in the humanities or social sciences; sophomore standing. 3 credits. (IRR)

HIST-23200 Medieval Civilization HU LA 1, h, g
Major emphasis is placed on the course of events in Europe and the Near East from the 4th through the 15th centuries, with particular stress on the major institutional and cultural developments. Prerequisites: One course in the humanities or social sciences; sophomore standing. 3 credits. (IRR)

HIST-23500 The Discovery of the World HU LA 1, h, g
A consideration of the prerequisites of transoceanic voyages and an investigation of why, among the societies that developed oceanic maritime capabilities, it was Europe that “discovered” the world. Prerequisites: One course in the humanities or social sciences; sophomore standing. 3 credits. (IRR)

HIST-24300 The City in United States History HU LA 1, h
The United States city: its development and impact on American society from the colonial period to the present. Changes in structure and function of the city in United States history and the effect of these changes on the lives of urban dwellers and American society in general. Prerequisites: One course in the humanities or social sciences; sophomore standing. 3 credits. (O,E)

HIST-25200 Germany, 1918–1945 HU LA 1, h, g
A survey of German history, 1918–1945, beginning with the post–World War I situation; the inception of the Weimar Republic and the political and economic challenges it faced; the artistic and cultural flowering during this period; the onset of the Hitler dictatorship; and the development of policies and their implementation to the debacle of the Third Reich in 1945. Prerequisites: One course in the humanities or social sciences; sophomore standing. 3 credits. (IRR)

HIST-25500 Native American History HU LA
Covers Native American issues since 1492. This historical approach will acquaint students with the major events and processes that transformed Native American communities across the North American continent. Students will review the political, social, economic, and religious changes that took place as a result of native interactions with Euro-Americans and various government agencies since colonial times. Students will also address how Native Americans were represented by normative peoples and how these images (and misrepresentations) changed over time. Prerequisites: Sophomore standing. 3 credits. (IRR)

HIST-26100 The Middle East HU LA 1, h, g
An overview of the political, cultural, intellectual, social, and religious background of the Middle East to the dissolution of the Ottoman Empire in the early 20th century. Also includes a concise examination of the modern Middle East and the varied regional problems and tensions deriving from historical forces. Prerequisites: One course in the humanities or social sciences; sophomore standing. 3 credits. (IRR)

HIST-26500 Industrialization and Social Change in Modern Europe HU LA 1, h
Examines the alteration of European social class, material culture, and ideology arising from the technological changes of the industrial age. Emphasizes the process of change and its consequences, from the beginnings of the Industrial Revolution to the aftermath of World War II. Prerequisites: One course in the humanities or social sciences; sophomore standing. 3 credits. (IRR)

HIST-26600 Women in Western Society HU LA 1, h
Explores the variety of women’s roles in the culture and society of the West and the historical evolution of Western society’s attitudes toward women. Emphasizes forces affecting attitudes toward women, including economic, political, and social conditions, as well as religious, intellectual, and scientific assumptions. Prerequisites: One course in the humanities or social sciences; sophomore standing. Students may not earn credit for both HIST-26800 and ARTH-26800. 3 credits. (O)

HIST-27000 History of American Environmental Thought HU LA 1,h
A pervasive theme in the occupancy of North America is the changing and often conflicting perception of the environment. This course focuses on the history of environmental ideas, values, and attitudes. Topics include capitalist, Romantic, and ecological thinking; the goals of conservation and preservation; recent rethinking of primitive experience; and today’s dialogue between mainstream environmentalism and deep ecology, the latter including ecofeminism, sustainable development, and biodiversity. Students examine the profound impact each of the paradigms has had on human-environment relations in America. Prerequisites: One course in the humanities or social sciences; sophomore standing. 3 credits. (IRR)

HIST-27200 History of the Future HU LA 1, h
An examination of historical perceptions and visions of the future. Utopian thought and societies, science and technology, war and peace, the environment, and gender relations are the historical themes assessed. Prerequisites: One course in the humanities or social sciences; sophomore standing. 3 credits. (IRR)

HIST-27300 Twentieth-Century Global Revolutions HU LA 1, h, g
An exploration of ideas, concepts, and backgrounds of world revolutions in the 20th century. Using various models of revolution in Europe, Asia, Africa, and other parts of the world, the course emphasizes culture as the leading influence in modern revolutions. Prerequisites: One course in the humanities or social sciences; sophomore standing. 3 credits. (F,L)

HIST-27500 The History of United States Popular Culture HU LA 1, h
Explores the history of popular culture in the United States from the earliest mass media genres to the contemporary era, including minstrelsy, novels, photography, baseball, movies, radio, and television. Emphasis is placed upon a number of important themes in American social history and how they affected popular culture differently in different eras — gender roles, race, and the role of changing technology. Prerequisites: One course in the humanities or social sciences. 3 credits. (IRR)
HIST-28300  Wars, Revolutions, and the Holocaust HU LA
Through readings, films, discussions, and lectures, this course explores the ethical, theoretical, and historical aspects of three major violence-ridden developments of the 20th century: wars, revolutions, and the Holocaust. A major goal of the course is to understand the causes of these events. Topics include the theory and technology of modern warfare, Leninist theory as a model for revolution, and the development of anti-Semitism in Germany, Russia, and France. Prerequisites: One course in the humanities or social sciences; sophomore standing. 3 credits. (Y)

HIST-28500–HIST-28600  Selected Topics: Historical Studies HU LA
Occasional courses of an experimental nature are offered under these numbers and title. These may be of lecture or seminar format, of great breadth or highly specialized. Any added prerequisites are announced when printed descriptions of the study topic are distributed. May be repeated for credit for selected topics on different subjects. Prerequisites: One course in the humanities or social sciences; sophomore standing. 3 credits. (IRR)

HIST-29000  The History of United States Foreign Relations HU LA 1, h, g
Survey of the prejudices, values, and ideologies that lie behind U.S. foreign policy. Course covers relations with major states and areas of the world from the origins of the nation until the post–Cold War era. Special attention is given to the relationship between social, economic, and political changes in the United States and their effect on foreign relations over time. Prerequisites: One course in the humanities or social sciences; sophomore standing. 3 credits. (E/O)

HIST-29900  Independent Study U LA
Special research on an individual project arranged by a student with a particular faculty member. The project may include reading books and/or writing papers under the guidance of the faculty member, with a performance expectation of sophomore-level work. Offered on demand only. Prerequisites: Sophomore standing or equivalent. 1–3 credits.

HIST-30100  The Renaissance and Reformation HU LA 1, h, g
Consideration of the major trends in world history between 1400 and 1660, including the Renaissance, the expansion of Europe, the development of the modern state system, and the Protestant revolts. Also included are major developments in Asia, Africa, and the Americas. Prerequisites: Three courses in the humanities and/or social sciences; sophomore standing. 3 credits. (IRR)

HIST-30200  The Old Regime and the French Revolution HU LA 1, h, g
Political, social, and intellectual upheaval in 17th- and 18th-century Europe. Rise and decline of absolutism and the age of revolution, Napoleon prior to 1814. Prerequisites: Three courses in the humanities and/or social sciences; sophomore standing. 3 credits. (IRR)

HIST-30300  The Colonial Period of American History, 1607–1763 U LA
Intensive examination of the origins of American culture and society (family, community, social structure). Prerequisites: Three courses in the humanities and/or social sciences; sophomore standing. 3 credits. (E/O)

HIST-30400  The Late Colonies and the Early National Period, 1763–1815 U LA
Survey of the movement for independence; the political experiments that led to the federal Constitution; and the early national period. Prerequisites: Three courses in the humanities and/or social sciences; sophomore standing. 3 credits. (S,U)

HIST-30700  The United States as a World Power I, 1900–1945 U LA
Intensive study of the elements that have made the United States a dominant force in world affairs. Probes the reform impulse of the Progressive Era and New Deal, the complex 1920s, and the impact of both world wars on American society. Prerequisites: Three courses in the humanities and/or social sciences; sophomore standing. 3 credits. (F,E)

HIST-30800  The United States as a World Power II, 1945 to the Present U LA
Emphasizes the interrelationships between foreign and domestic policy since World War II. Special attention to the Cold War, McCarthyism, the 1950s ethos, the chaotic 1960s and Vietnam, and the reaction to the Nixon years and after. Prerequisites: Three courses in the humanities and/or social sciences; sophomore standing. 3 credits. (S,E)

HIST-31000  The American Frontier, 1840–1890 U LA
A cross-disciplinary perspective on the process of settlement into the trans-Mississippi West, drawing from women’s studies, social theory, anthropology, literature, and geography. Prerequisites: Three courses in the humanities and/or social sciences; sophomore standing. 3 credits. (IRR)

HIST-31300  The Other Europe: Modern Eastern and Central Europe U LA 1, h, g
Examines events and developments in Eastern and Central Europe from 1945 through the end of the Cold War. The course reviews the region’s historical-cultural background, but concentrates on governance, ideology, politics, economics, society, and culture during the past 50 years. Special focus on the development of independent dissident activities, their challenge to dominant authoritarian models during the period, and the future of the region in a changing Europe. Prerequisites: Three courses in the humanities and/or social sciences; sophomore standing. 3 credits. (IRR)

HIST-31800  Toward Democracy: Early Modern European Intellectual History U LA 1, h
Explores the growth of Western democratic theory, political philosophy, and intellectual history from the time of the late Roman Empire to the late 18th century. Included are such topics as the theory of absolutism and its foundation in the Roman law, common law and democracy, papal absolutism, Puritanism, and the Enlightenment. Also considered are Locke, Rousseau, Machiavelli, and Guicciardini. Prerequisites: Three courses in the humanities and/or social sciences; sophomore standing. 3 credits. (IRR)

HIST-32000  The United States and the Third World U LA
An examination of the role of the United States in the modern history and cultural evolution of Africa, Asia, the Middle East, and Latin America. Includes study of the attitudes, influences, and actions of the United States regarding the nations and peoples of these areas in the 19th and 20th centuries. A search for the forces that explain the understanding, or misunderstanding, of third-world cultures by people in the United States. Prerequisites: Three courses in the humanities and/or social sciences; sophomore standing. 3 credits. (S,O)

HIST-32100  Colonial Latin America U LA 1, h, g
An examination of ancient American civilizations establishes the context for the Spanish conquest and the imposition of Iberian culture in the development of Spanish colonies. The course continues with the international setting of the colonies and the development of newly independent states in the 19th century. The emphasis is placed not only on events but also on their meaning, focusing on the history and culture of Latin America, and their influences on contemporary Latin American society. Prerequisites: Three courses in the humanities and/or social sciences; sophomore standing. 3 credits. (S,O)

HIST-32200  Modern Latin America U LA 1, h, g
To promote an understanding of contemporary Latin America, the course examines the politics, social structures, and cultures of the region in the late 19th and 20th centuries. Revolutionary movements and their relationships to the United States are central, as are the political traditions influencing the evolution of modern Latin America. Prerequisites: Three courses in the humanities and/or social sciences; sophomore standing. 3 credits. (S,O)

HIST-32500  United States Business History U LA
United States business history from 1815 to 1960: a study of the development of the vertically integrated corporation and its social and political impact on American society. Prerequisites: Three courses in the humanities and/or social sciences; sophomore standing. 3 credits. (IRR)

HIST-33800  European Diplomatic History from 1870 U LA
Survey of European diplomatic history from the Franco-Prussian War to the present. Includes the outbreak of World War I, the Peace of Paris, the background of World War II, and the post–Korean War period. Prerequisites: Three courses in the humanities and/or social sciences; sophomore standing. 3 credits. (IRR)

HIST-34100  Dynastic China U LA 1, h, g
China, from its origins to the 19th century; a historical survey utilizing literary and philosophical material and selected dynasties to illustrate the development and diversity of China. Prerequisites: Three courses in the humanities and/or social sciences; sophomore standing. 3 credits. (IRR)

HIST-34200  Japan U LA
Japan, from its origins to the 20th century; a historical survey drawing on literary sources and social forms to illustrate the development of Japan and its role in world affairs. Prerequisites: Three courses in the humanities and/or social sciences; sophomore standing. 3 credits. (IRR)

HIST-35100  English History to 1714 U LA
Explores the growth of Western democratic theory, political philosophy, and intellectual history from the time of the late Roman Empire to the late 18th century. Included are such topics as the theory of absolutism and its foundation in the Roman law, common law and democracy, papal absolutism, Puritanism, and the Enlightenment. Also considered are Locke, Rousseau, Machiavelli, and Guicciardini. Prerequisites: Three courses in the humanities and/or social sciences; sophomore standing. 3 credits. (IRR)

HIST-35200  Modern English History U LA
Study of English history, principally in the Tudor and Stuart periods: the early Tudors, the culture and institutions of Elizabethan England, the religious and political struggle of Stuart and Cromwellian England. Prerequisites: Three courses in the humanities and/or social sciences; sophomore standing. 3 credits. (IRR)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST-35300</td>
<td>Ancient Greece</td>
<td>1-3</td>
<td>Study of topics in the history of ancient Greek civilization, from the archaic age through the time of the Hellenistic monarchies. Both ancient and modern sources are sampled extensively. Prerequisites: Three courses in the humanities and/or social sciences; sophomore standing. 3 credits. (IRR)</td>
</tr>
<tr>
<td>HIST-35700</td>
<td>Studies in French History</td>
<td>1</td>
<td>Study of selected periods of French history in depth, with an emphasis placed on the social, cultural, economic, and intellectual history of the selected period, as well as the political framework that helped determine it. Prerequisites: Three courses in the humanities and/or social sciences; sophomore standing. 3 credits. (S,E)</td>
</tr>
<tr>
<td>HIST-36100</td>
<td>History of Marxism</td>
<td>1</td>
<td>Intensive study of the evolution of the Marxist movement and thought, from its inception to the present. Prerequisites: Three courses in the humanities and/or social sciences; sophomore standing. 3 credits. (IRR)</td>
</tr>
<tr>
<td>HIST-36200</td>
<td>Modern European Intellectual History</td>
<td>1-3</td>
<td>A survey of European thought in the modern era, exploring in depth contemporary scientific, religious, aesthetic, and existentialist ideas. Also offered through the London Center (F-S,Y). Prerequisites: Three courses in the humanities and/or social sciences; sophomore standing. 3 credits. (IRR)</td>
</tr>
<tr>
<td>HIST-37100</td>
<td>Slavery and the Union</td>
<td>1-3</td>
<td>A study of the institution of slavery and its impact on United States history from the colonial period to 1900. Emphasis is placed on the coming of the Civil War, the Civil War, and Reconstruction. Prerequisites: Three courses in the humanities and/or social sciences; sophomore standing. 3 credits. (IRR)</td>
</tr>
<tr>
<td>HIST-38100</td>
<td>Europe in the 19th Century</td>
<td>1-3</td>
<td>A study of the unfolding of European economic, political, and social institutions, and cultural and intellectual heritage from the end of the Napoleonic period until the end of the century. Prerequisites: Three courses in the humanities and/or social sciences; sophomore standing. 3 credits. (IRR)</td>
</tr>
<tr>
<td>HIST-38200</td>
<td>Europe in the 20th Century</td>
<td>1-3</td>
<td>A study of European economic, political, and social institutions, and Europe's cultural and intellectual heritage from the turn of the century to the present. Prerequisites: Three courses in the humanities and/or social sciences; sophomore standing. 3 credits. (S,O)</td>
</tr>
<tr>
<td>HIST-38300</td>
<td>Revolutionary China</td>
<td>1-3</td>
<td>Study of China and its passage from Celestial Empire to Communist Republic through two world wars and two revolutions. The assumptions about and realities of China are considered, as well as the processes that led to them. Prerequisites: Three courses in the humanities and/or social sciences; sophomore standing. 3 credits. (IRR)</td>
</tr>
<tr>
<td>HIST-39500</td>
<td>British History 1815–1914</td>
<td>1-3</td>
<td>British history is discussed with major emphasis placed on England in 1815. The Great Reform Act, Robert Peel, Palmerston, Gladstone, trade unions, Ireland, imperialism, liberalism (1906–14), Parliament versus Lords, and causes of World War I are discussed. Offered only through the London Center. Prerequisites: Three courses in the humanities and/or social sciences; sophomore standing. 3 credits. (F,Y)</td>
</tr>
<tr>
<td>HIST-39600</td>
<td>Modern British History 1914 to Present</td>
<td>1-3</td>
<td>Great Britain's role in Europe and the East since World War I. Major emphasis is placed on British foreign policy and the figures of Lloyd George, Chamberlain, Churchill, MacMillan, and Wilson. Offered only through the London Center. Prerequisites: Three courses in the humanities and/or social sciences; sophomore standing. 3 credits. (S,Y)</td>
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<tr>
<td>HIST-39900</td>
<td>Independent Study</td>
<td>1-3</td>
<td>Special research on an individual project arranged by a student with a particular faculty member. The project may include reading books and/or writing papers under the guidance of the faculty member, with a performance expectation of junior-level work. Offered on demand only. Prerequisites: Junior standing or equivalent. 1–3 credits.</td>
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<tr>
<td>HIST-481xx</td>
<td>History Seminar, European</td>
<td>1-3</td>
<td>Introduction to problems of historical method and research in European history. Must be taken at home campus. Prerequisites: Senior standing or equivalent; permission of instructor. 3 credits. (F-S,Y)</td>
</tr>
<tr>
<td>HIST-482xx</td>
<td>History Seminar, Global</td>
<td>1-3</td>
<td>Introduction to problems of historical method and research in global history. Must be taken at home campus. Prerequisites: Senior standing or equivalent; permission of instructor. 3 credits. (F-S,Y)</td>
</tr>
<tr>
<td>HIST-483xx</td>
<td>History Seminar, United States</td>
<td>1-3</td>
<td>Introduction to problems of historical method and research in United States history. Must be taken at home campus. Prerequisites: Senior standing or equivalent; permission of instructor. 3 credits. (F-S,Y)</td>
</tr>
<tr>
<td>HIST-491xx</td>
<td>Tutorial in Special Problems in European History</td>
<td>1-3</td>
<td>Guided individual research, study, and writing on particular topics in European history under the supervision of a faculty member of the department. Must be taken at home campus. Prerequisites: Permission of instructor. 3 credits. (F-S)</td>
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<tr>
<td>HIST-492xx</td>
<td>Tutorial in Special Problems in Global History</td>
<td>1-3</td>
<td>Guided individual research, study, and writing on particular topics in global history under the supervision of a faculty member of the department. Must be taken at home campus. Prerequisites: Permission of instructor. 3 credits. (F-S)</td>
</tr>
<tr>
<td>HIST-493xx</td>
<td>Tutorial in Special Problems in United States History</td>
<td>1-3</td>
<td>Guided individual research, study, and writing on particular topics in United States history under the supervision of a faculty member from the department. Must be taken at home campus. Prerequisites: Permission of instructor. 3 credits. (F-S)</td>
</tr>
<tr>
<td>HIST-49500</td>
<td>History Internship</td>
<td>1-3</td>
<td>An opportunity for practical experience in a variety of history-related activities in the United States, under the joint supervision of the sponsoring agency and a history department faculty member. Internships are arranged individually and must be approved by the chair of the history department. Prerequisites: Four history courses; junior standing or above; permission of instructor and chair. Available for variable credit; only 6 credits may be counted toward the history major. (IRR)</td>
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<tr>
<td>HIST-49700</td>
<td>International History Internship</td>
<td>1-3</td>
<td>An opportunity for practical experience in a variety of history-related activities under the joint supervision of the Office of International Programs (London Center) and a history department faculty member on the Ithaca College campus. Internships are arranged individually through the Office of International Programs, but must be approved by the chair of the history department. Prerequisites: Three history courses, two of which are at level 3 or above; permission of instructor and department chair. 1–4 credits. (IRR)</td>
</tr>
<tr>
<td>HIST-49900</td>
<td>Independent Study</td>
<td>1-3</td>
<td>Special research on an individual project arranged by a student with a particular faculty member. The project may include reading books and/or writing papers under the guidance of the faculty member, with a performance expectation of senior-level work. Offered on demand only. Prerequisites: Senior standing or equivalent. 1–3 credits.</td>
</tr>
</tbody>
</table>

**JEWISH STUDIES**

Barbara C. Johnson, Associate Professor and Coordinator

For information about the Jewish studies minor see its listing under “Individual and Interdisciplinary Studies Programs” on p. 203.

**LATIN AMERICAN STUDIES**

Michael Malpass, Professor and Coordinator

Gladys M. Varona-Lacey, Professor and Coordinator

For information about the Latin American studies minor see its listing under “Individual and Interdisciplinary Studies Programs” on p. 204.
Mathematics

Bachelor of Arts, Bachelor of Science

Stan Seltzer, Associate Professor and Chair

The Department of Mathematics offers a curriculum with sufficient depth and flexibility to provide a sound program of study for a wide range of mathematical interests. General interest courses are offered for students interested in studying mathematics for their own information and enjoyment.

The department offers programs that lead to the bachelor’s degree in mathematics, mathematics–computer science, mathematics–economics, mathematics–physics, and mathematics with teaching option.

Requirements for Honors in Mathematics

Honors in mathematics are awarded in recognition of excellent overall scholarship and the successful completion of an honors-level capstone experience.

Candidates need departmental approval based on mathematical maturity, creativity, and the ability to do independent work in order to register for MATH-49300 Honors. Final approval for honors is decided by a department vote. Honors in mathematics are awarded only upon recommendation of the department faculty.

Departmental Policies on Math Placement Groups

A prerequisite for entrance into mathematics MATH-10000, MATH-10500, MATH-10600, MATH-10700, MATH-10800, MATH-11100, MATH-13100, MATH-13200, MATH-13500, MATH-14400, MATH-15200, MATH-15300, MATH-16100, MATH-18000, MATH-21200, MATH-23400 (also has a course prerequisite), and MATH-25200 is the appropriate classification of the student in group 1, 2, 3, or 4.

Math Placement Exam — All entering students must take the math placement exam. Based on the results, students are initially assigned to one of the four placement groups. This determines where they can enter the mathematics curriculum. Students can move from one group to another as follows:

Group 4 — The student must take MATH-10000 Mathematics Fundamentals or MATH-18000 Mathematics Fundamentals with Computers before any other mathematics course. Passing MATH-10000 or MATH-18000 with a C- or better places the student in group 3.

Group 3 — The student may take mathematics courses MATH-10500, MATH-10600, MATH-10700, MATH-13100, MATH-13500, MATH-15200, and MATH-15300, Completion of MATH-10700 or MATH-13100 with a C- or better places the student in group 2.

Group 2 — The student may take any course that a group 3 student may take, except MATH-13100, and in addition may take — and is encouraged to take — at least one of MATH-10200, MATH-10800, MATH-13200, MATH-14400, MATH-16100, and MATH-25200. Completion of MATH-13200 with a C- or better places the student in group 1.

Group 1 — The student may take any course in the mathematics offerings other than MATH-10000, MATH-10700, MATH-13100, MATH-13200, and MATH-18000, provided the course prerequisites are met. Students in group 1 are encouraged to take courses with group 1 or group 2 prerequisites.

Requirements for the Major in Mathematics — B.A.

The mathematics major prepares students for careers — in industry, government, and education — that require problem solving and creative thinking abilities. The curriculum is based on a core of required courses that provides a foundation leading to a number of upper-level options.

Credits in the major

| Mathematics, including MATH-11100, MATH-11200, MATH-17600, MATH-21100, MATH-26000, MATH-26100, MATH-29100, MATH-30300, MATH-30500 | 33 |
| Mathematics electives, 11 credits to be selected from MATH-21200, MATH-31800, MATH-34000, MATH-34200, MATH-39200, MATH-39910, MATH-40100, MATH-42000, MATH-44000, MATH-48000, MATH-49000, MATH-49200, MATH-49300, MATH-49400 | 11 |

An overall GPA of C (2.00) is required in mathematics courses that are being used to fulfill the minimum course requirements for all the mathematics majors and the mathematics and computing minors. No more than one passing grade below C- in mathematics courses may be used.

Requirements for Mathematics — B.A. with Teaching Option

Credits in the major

| Mathematics, including MATH-11100, MATH-11200, MATH-17600, MATH-21100, MATH-26000, MATH-26100, MATH-29100, MATH-30300, MATH-30500, MATH-36200 | 37 |

Restricted electives in the major department

| Seven credits (at least 4 credits must be at level 4) selected from MATH-21200, MATH-31800, MATH-34000, MATH-39910, MATH-39200, MATH-39700, MATH-39810, MATH-40100, MATH-40200, MATH-44000, MATH-48000, MATH-49000, MATH-49200, MATH-49300, MATH-49400 | 7 |

Core education requirements

| EDUC-21910 Early Field Experience: Theory and Practice | 3 |
| COMP-20100 Technology for the Middle/Secondary School Teacher | 2 |
| EDUC-10100 Literacy Education for the Middle/Secondary School Teacher | 2 |
| SLPA-23900 Educating Children with Special Needs | 2 |
| SLPA-22900 Second Language Acquisition: Its Nature and Meaning for Educators | 2 |
| PSYC-21010 Educational Psychology | 3 |
| EDUC-34000 Social and Cultural Foundations of Education | 3 |
| EDUC-30810 Pedagogy and Practice across the Disciplines | 3 |
| EDUC-30510 Pedagogy and Practice for the Mathematics Teacher | 3 |
| EDUC-41210 Seminar in Reflective Practice | 3 |
| EDUC-49810 Professional Semester in Education | 12 |
| EDUC-11000 Child Abuse Identification and Prevention | 0 |
| EDUC-11100 Drug and Alcohol Abuse: Identification and Prevention | 0 |
| Total, core education requirements | 38 |

Additional core requirements

1. All teacher education students must successfully complete a year of college-level study in a language other than English. Students may test out of this requirement by taking the language placement test and placing at level 2 or above.

2. All teacher education students must successfully complete a writing course numbered WRTG-10600 or above.

3. All teaching-option students must successfully complete the second-year review and maintain a minimum 2.75 GPA in mathematics. If a student receives an unsuccessful review or a review with stipulations, the student must participate in and successfully pass a second review the following year. Unsuccessful reviews and reviews with stipulations will be accompanied by a written statement outlining what must be done before the next review is complete.

4. Students must earn a grade of B or better in EDUC-30810 and EDUC-30510 to qualify for student teaching. A grade of B- does not qualify.

5. EDUC-49810 Professional Semester in Education and EDUC-41210 Seminar in Reflective Practice constitute a full course load during the student-teaching semester. No additional courses may be taken.

6. All candidates for initial certification must successfully complete all three sections of the New York State Teacher Certification Examinations: the liberal arts and sciences test, the assessment of teaching skills-written, and the content area exam.

7. The mathematics department chair and the coordinator of teacher education must approve any exceptions to the above requirements.

| Electives | 38 |
| Total, B.A. in mathematics, teacher education | 120 |

An overall average of C (2.00) is required in mathematics courses that are being used to fulfill the minimum course requirements for all the mathematics majors and the mathematics and computing minors. Also, no more than one passing grade below C- in mathematics courses may be used.
Requirements for the Major in Mathematics–Computer Science — B.S.

This program is designed for students whose educational or career objectives combine mathematics and computer science. It provides the opportunity for and recognition of serious concentration in both fields and prepares students for graduate study or career placement in either field.

Mathematics, including MATH-11100, MATH-11200, MATH-21100, MATH-26000, MATH-26100, MATH-31600, and one 4-credit elective at level 3 or 4.

Computer science, including COMP-17100, COMP-21000, COMP-22000, COMP-24500, COMP-41100, COMP-31100, and one additional computer science elective at level 3 or 4.

One additional 3- or 4-credit elective at level 3 or level 4, from either mathematics or computer science.

Electives

Total, B.S. in mathematics–computer science 120

An overall average of C (2.00) is required in mathematics and computer science courses being used to fulfill the minimum course requirements for the major. No more than one passing grade below C- in those courses may be used.

Requirements for Mathematics–Computer Science — B.S. with Teaching Option

Credits in the major

Mathematics, including MATH-11100, MATH-11200, MATH-21100, MATH-26000, MATH-26100, MATH-29100, MATH-31600, MATH-36200

Computer science, including COMP-17100, COMP-21000, COMP-22000, COMP-24500, COMP-41100, COMP-31100

Restricted electives in the major department

One computer science elective at level 3 or 4 from COMP-31000, COMP-31500, COMP-32100, COMP-34400, COMP-36500, COMP-375000, COMP-42000

One 3- or 4-credit math elective at level 3 or 4 from MATH-34000, MATH-39000, MATH-39200, MATH-39810, MATH-40100, MATH-40200, MATH-44000, MATH-48000, MATH-49000, MATH-49200, MATH-49300, MATH-49400

Total, credits in the major 60–61

Core education requirements

EDUC-21910 Early Field Experience: Theory and Practice 3

COMP-20100 Technology for the Middle/Secondary School Teacher 2

EDUC-10100 Literacy Education for the Middle/Secondary School Teacher 2

SPLA-23900 Educating Children with Special Needs 2

SPLA-22900 Second Language Acquisition: Its Nature and Meaning for Educators 2

PSYC-21010 Educational Psychology 3

EDUC-34000 Social and Cultural Foundations of Education 3

EDUC-30810 Pedagogy and Practice across the Disciplines 3

EDUC-30510 Pedagogy and Practice for the Mathematics Teacher 3

EDUC-41210 Seminar in Reflective Practice 3

EDUC-49810 Professional Semester in Education 12

EDUC-11000 Child Abuse Identification and Prevention 0

EDUC-11100 Drug and Alcohol Abuse: Identification and Prevention 0

Total, core education requirements 38

Additional core requirements

1. All teaching-option students must successfully complete a year of college-level study in a language other than English. Students may test out of this requirement by taking the language placement test and placing at level 2 or above.

2. All teaching-option students must complete a writing course numbered WRTG-10600 or above.

3. All teaching-option students must successfully complete the second-year review and maintain a minimum 2.75 GPA in mathematics and in computer science. If a student receives an unsuccessful review or a review with stipulations, the student must participate in and successfully pass a second review the following year. Unsuccessful reviews and reviews with stipulations will be accompanied by a written statement outlining what must be done before the next review is complete.

4. Students must earn a grade of B or better in EDUC-30610 and EDUC-30510 to qualify for student teaching. A grade of D– does not qualify.

5. EDUC-49810 Professional Semester in Education and EDUC-41210 Seminar in Reflective Practice constitute a full course load during the student teaching semester. No additional courses may be taken.

6. All candidates for initial certification must successfully complete all three sections of the New York State Teacher Certification Examinations: the liberal arts and sciences test, the assessment of teaching skills-written, and the content area exam.

7. The chairs of the mathematics and computer science departments and the coordinator of teacher education must approve any exceptions to the above requirements.

Electives

Total, B.S. in mathematics–computer science with teaching option 21–22

An overall average of C (2.00) is required in mathematics and computer science courses being used to fulfill the minimum course requirements for the major. No more than one passing grade below C- in those courses may be used.

Requirements for the Major in Mathematics-Economics — B.A.

The mathematics-economics program provides quantitative background for students who wish to enter graduate school, industry, and government. It offers the mathematics student applications in the form of economic models and econometric studies, and the economics student foundations and analysis of mathematics necessary for a cogent exposition of quantitative economics. In general, the program places economics and mathematics into the broad context of rigorous analytical studies.

Credits in the major

Economics, including ECON-12100, ECON-12200, ECON-12100, ECON-12200, ECON-32100, ECON-33000, ECON-33400, ECON-41100, and ECON-49200

Computer science/mathematics, including COMP-11000, COMP-17100, COMP-17100, or MATH-17600, MATH-11100, MATH-11200, MATH-21100, MATH-26000, MATH-26100, MATH-31600

Electives

Electives 65–66

Total, B.A. in mathematics–economics requirement by taking the language placement test and placing at level 2 or above.

Requirements for the Major in Mathematics-Physics — B.A.

The mathematics-physics major provides an option for students who want to concentrate on both areas equally, rather than majoring in one or the other. The student can move easily to either mathematics or physics at any time up to the middle of the junior year.

Credits in the major

Physics, including PHYS-11700, PHYS-11800, PHYS-12000, PHYS-21700, PHYS-21800, PHYS-22500, PHYS-30100, PHYS-30300, PHYS-31100

Mathematics, including MATH-11100, MATH-11200, MATH-21100, MATH-21200, MATH-26000, MATH-26100, and MATH-30300 or MATH-30500

Mathematics or physics elective at level 3 or above, or any approved course

Electives

3–4

Total, B.A. in mathematics-physics 120

An overall average of C (2.00) is required in mathematics courses being used to fulfill the minimum course requirements for the major. No more than one passing grade below C- in mathematics courses may be used.
Minor in Mathematics
The mathematics minor program provides an option for nonmajors who wish to take mathematics courses, be guided in course selection, and receive recognition for their studies.

Requirements for the minor

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Units</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH-11100</td>
<td>Calculus I</td>
<td>4</td>
<td>Calculus of functions of one variable. Topics include limits, continuity, derivatives, applications of derivatives (problems of motion, graphing, and optimization), antiderivatives, and an introduction to the definite integral. Functions covered include polynomial, rational, exponential, logarithmic, trigonometric, and piecewise-defined functions. Prerequisites: Math placement in group 1. 4 credits. (F-S,Y)</td>
</tr>
<tr>
<td>MATH-11200</td>
<td>Calculus II</td>
<td>4</td>
<td>Continuation of calculus of functions of one variable. Topics include differential equations, including slope fields, numerical solutions, and separation of variables; evaluation of integrals and antiderivatives; applications of integration; improper integrals; and series, with an emphasis placed on power series. Prerequisites: MATH-11100. 4 credits. (F-S,Y)</td>
</tr>
<tr>
<td>MATH-10800</td>
<td>Calculus for Decision Making</td>
<td>4</td>
<td>Calculus for Decision Making. Upon the recommendation of the instructor, students completing this course may move to group 2. Students not receiving the recommendation of the instructor have the option of taking the department exam to move from group 3 to group 2. Students may not receive credit for both MATH-10800, MATH-11100, or MATH-11200. Students with group 1 placement who plan to take more than one semester of calculus should instead take MATH-11100. Prerequisites: Math placement in group 1 or 2. 4 credits. (F,S,Y)</td>
</tr>
</tbody>
</table>

Students interested in a mathematics minor should consult a departmental adviser.

An overall average of C (2.00) is required in mathematics courses being used to fulfill the minimum course requirements for the minor. No more than one passing grade below C- in mathematics courses may be used.

Advanced Placement

Students can receive credit and advanced placement in Calculus I (MATH-11100) by receiving a grade of 3, 4, or 5 on the calculus AB College Board Advanced Placement Examination. Students can receive credit and advanced placement in Calculus II (MATH-11200) by receiving a grade of 3, 4, or 5 on the calculus BC College Board Advanced Placement Examination. Ithaca College also provides its own placement examination for students who feel they have a knowledge of calculus but have not taken the College Board Advanced Placement Examination. Students can receive credit in MATH-24300 Statistics by receiving a grade of 3, 4, or 5 on the College Board Advanced Placement Examination.

Notes on Prerequisites

A grade of C- or better is required for a course in mathematics to fulfill a prerequisite for another mathematics course.

A student requires the permission of the mathematics department to take a mathematics course that is a prerequisite for a mathematics course for which he/she has previously received credit.

MATH-10000 Mathematics Fundamentals U LA
Basic concepts underlying algebra, functions, exponents, areas, fractions, and percents. Reasoning skills required for these concepts. Word problems. Meets three hours. See also MATH-18000; credit cannot be earned for both MATH-10000 and MATH-12000. Prerequisites: Math placement in group 4. 1 credit. (F-S,Y)

MATH-10500 Mathematics for Decision Making NS LA 2b
Introduction to probability theory, mathematics of finance, and linear programming. Additional topics at the instructor’s discretion. Students may not receive credit for both MATH-10500 and MATH-10600. Prerequisites: Math placement in group 1, 2, or 3. 3 credits. (F,S,Y)

MATH-10600 Mathematics for Decision Making with Technology NS LA 2b
Introduction to probability theory, mathematics of finance, and linear programming. Additional topics at the instructor’s discretion. Appropriate technology is introduced to present some of the topics differently and in more depth than MATH-10500. Students may not receive credit for both MATH-10500 and MATH-10600. Prerequisites: Math placement in group 1, 2, or 3. 4 credits. (F,S,Y)

MATH-10700 Fundamentals of Applied Calculus NS LA
Introduction to calculus with an emphasis placed on problems in business and economics. Topics include modeling data with polynomial, exponential, and other functions; rates of change and other applications of derivatives; optimization; and the definite integral. Technology, such as graphing calculators, will be used throughout this course. Completion of this course with a grade of C- or better will move students in group 3 to group 2. Not open to students who have taken MATH-10800, MATH-11100, or MATH-11200. Prerequisites: Math placement in group 2 or 3. 4 credits. (F,S,Y)

MATH-10800 Calculus for Decision Making NS LA 2b
Introduction to calculus with an emphasis placed on problems in the social and life sciences. Topics include polynomial, exponential, and logarithmic functions and their derivatives; curve sketching, optimization, and rates of change; the definite integral and area. Further topics may be chosen from applications of differential equations and trigonometric functions. Not open to students who have taken MATH-10700, MATH-10801, MATH-10803, MATH-11100, or MATH-11200. Students with group 1 placement who plan to take more than one semester of calculus should instead take MATH-11100. Prerequisites: Math placement in group 1 or 2. 4 credits. (F,S,Y)

MATH-11100 Calculus I NS LA 2b
Calculus of functions of one variable. Topics include limits, continuity, derivatives, applications of derivatives (problems of motion, graphing, and optimization), antiderivatives, and an introduction to the definite integral. Functions covered include polynomial, rational, exponential, logarithmic, trigonometric, and piecewise-defined functions. Prerequisites: Math placement in group 1. 4 credits. (F-S,Y)

MATH-11200 Calculus II NS LA 2b
Continuation of calculus of functions of one variable. Topics include differential equations, including slope fields, numerical solutions, and separation of variables; evaluation of integrals and antiderivatives; applications of integration; improper integrals; and series, with an emphasis placed on power series. Prerequisites: MATH-11100. 4 credits. (F-S,Y)

MATH-13100 Power Algebra NS LA 2b
College algebra is introduced as motivated by applications. Students make conjectures and predictions about real-life applications and actively participate in constructing simple mathematical models. Focus on mathematical concepts and thinking rather than algebraic manipulations. Provides the skills and knowledge to take a course such as MATH-10800 Calculus for Decision Making. Upon the recommendation of the instructor, students completing this course may move to group 2. Students not receiving the recommendation of the instructor have the option of taking the department exam to move from group 3 to group 2. Students may not receive credit for both MATH-10100 and MATH-13100. Prerequisites: Math placement in group 3. 4 credits. (F-S,Y)

MATH-13200 Dynamic Functions NS LA 2b
Using a blend of geometric, numerical, and symbolic approaches, students construct mathematical models to better understand a variety of real-life applications. A graphical and analytic analysis specifically focuses on exponential, logarithmic, and trigonometric function theory, motivated by practical problems. Explores and develops precalculus mathematics while focusing on mathematics as a practical tool. Upon the recommendation of the instructor, students completing this course may move to group 1. Students not receiving the recommendation of the instructor have the option of taking the department exam to move from group 2 to group 1. Students may not receive credit for both MATH-10200 and MATH-13200. Prerequisites: Math placement in group 2. 4 credits. (F-S,Y)

MATH-13500 Mathematical Art with Computers LA 2b
Focuses on mathematical concepts such as symmetry, crystallographic groups, recursive patterns, spirals, and the golden ratio as they relate to geometric design. The use of computers enables us to explore these topics without an extensive math background. Prerequisites: Math placement in group 3, 2, or 1. 3 credits. (S,Y)

MATH-14400 Business Statistics NS LA
Descriptive statistical techniques; introduction to probability; statistical inference, including problems of estimation and hypothesis testing; and correlation and regression analysis. Technology used in this course may include graphing calculators and statistical software. A student cannot receive credit for this course and PTBS-39000. Not open to students who have completed MATH-24300, MATH-24402, MATH-31600, or MATH-31601. To attain mathematical maturity, it is strongly recommended that students complete a calculus course before taking this course. Prerequisites: Math placement in group 1 or 2. 4 credits. (F-S,Y)

MATH-15200 Selected Topics: What Is Mathematics? NS LA 2b
Cultural approach to selected topics in mathematics. See instructor for current list of topics. Students may not receive credit for both MATH-15200 and MATH-25200. Prerequisites: Math placement in group 3, 2, or 1. 3 credits. (F-S,Y)

MATH-15500 Basic Statistical Reasoning NS LA 2b
Basic concepts involved in statistical reasoning, such as sampling and experimental design, description of data, normal approximation to data, correlation and regression, and probability. Emphasis is placed on understanding the use of statistics, rather than how to do statistical analysis. Not open to students who have taken MATH-10800, MATH-11100, PSYC-20700, or PTBS-39000. Prerequisites: Math placement in group 3, 2, or 1; completion of one course in the social or natural sciences. 3 credits. (F,S,Y)
MATH-11000 Mathematics Fundamentals: reasoning skills and basic concepts underlying mathematics. Credit cannot be earned for both MATH-10000 and MATH-10000. Prerequisites: Math placement in group 4. 2 credits. (F-S,Y)

MATH-19000 Selected Topics in Mathematics NS LA
Topics to be determined by instructor and department. May be repeated for credit for selected topics on different subjects. Prerequisites: Appropriate to topics. 1–4 credits. (IRR)

MATH-19200 Independent Study U LA
Reading on selected subjects with frequent, informal discussions with the instructor. Prerequisites: Permission of instructor. 1–3 credits. (IRR)

MATH-21100 Calculus III NS LA 2b
Introduction to vectors and the geometry of vector spaces. Calculus of functions of several variables: partial derivatives, gradients, optimization, double integrals. Prerequisites: MATH-11000; MATH-11200. 4 credits. (F-S,Y)

MATH-21200 Calculus IV NS LA
Multiple integrals and change of variables. Line and surface integrals. Classical theorems of vector calculus. Prerequisites: MATH-21100. 3 credits. (S,Y)

MATH-24300 Statistics NS LA
Descriptive statistical techniques; review of basic probability; random variables and their distributions; statistical inference including problems of estimation and hypothesis testing; and correlation and regression analysis. A student cannot receive credit for this course and PTBS-39000 or MATH-24400. Not open to students who have taken MATH-31600. Prerequisites: MATH-10500 or MATH-10600 and math placement in group 2, or MATH-11100 and MATH-11200. 3 credits. (F-S,Y)

MATH-24400 Statistics with Probability NS LA 2b
Descriptive statistical techniques; introduction to probability theory including counting methods, expected value, independence, and random variables and their distributions; statistical inference including problems of estimation and hypothesis testing; correlation and regression analysis; introduction to further topics chosen from Chi-square tests, multiple regression, and analysis of variance. Technology used in this course may include graphing calculators and statistical software. A student cannot receive credit for this course and PTBS-39000, MATH-14400, MATH-24300, or MATH-24402. Not open to students who have taken MATH-31600. Prerequisites: MATH-10500 or MATH-11100. 4 credits. (F,S,Y)

MATH-25000 Problem-Solving Seminar NS LA
Techniques used in the solution of diverse mathematical problems are developed and discussed. Problems will often be drawn from national competitions such as the Putnam exam and the COMAP Modeling Competition, or from problem sections of mathematics journals. The course will be offered for either 0.5 or 1.0 credit; may be repeated for credit up to a total of 4 credits. Prerequisites: MATH-11100. Pass/fail only. 0.5–1.0 credit. (F,S,Y)

MATH-25200 Selected Topics: What Is Mathematics? NS LA 2b
Cultural approach to selected topics in mathematics. See instructor for current list of topics. Prerequisites: Math placement in group 2; one college mathematics course or sophomore standing. Students may not receive credit for both MATH-15200 and MATH-25200. 3 credits. (F,Y)

MATH-26000 Linear Algebra, Modeling, and Reasoning I NS LA
A study of mathematical reasoning including standard methods of proof, such as direct proof, indirect proof, proof by cases, and use of the contrapositive, inclusion and quantification. Functions, matrices, and matrix algebra, eigenvalues, and characteristic polynomials are studied theoretically and used to provide tools in applications. Other topics, such as set theory, may be included. Tools developed may include transformation matrices, coding matrices, and incidence matrices. Prerequisites: MATH-11200 (may be taken concurrently). 4 credits. (F,Y)

MATH-26100 Linear Algebra, Modeling, and Reasoning II NS LA
Topics include equivalence relations, abstract linear algebra, abstract vector spaces, independence, bases, dimension, and linear maps. Analytic, numeric, and geometric solutions of first-order differential equations are studied. Topics in modeling such as solutions of constant coefficient second order differential equations, homogeneous and non-homogeneous differential equations, discrete dynamical systems, difference equations, and graph theory. Prerequisites: MATH-26000. 4 credits. (S,Y)

MATH-28000 Mathematics NS LA
Introduction to Mathematica — its syntax, structure, and distinctive features. Use of Mathematica as a problem-solving tool for mathematics. Prerequisites: MATH-11200. 1 credit. (F,Y)

MATH-29000 Selected Topics in Mathematics NS LA
Topics to be determined by instructor and department. This course may be repeated for credit when topics vary. Prerequisites: As appropriate to topics. 1–4 credits. (IRR)

MATH-29100 Sophomore Seminar NS LA
Series of discussions presenting an overview of mathematics led by various faculty members. Should be taken by majors in sophomore year. Prerequisites: MATH-11100; MATH-11200; MATH-26000 (may be taken concurrently). Pass/ fail only. 1 credit. (S,Y)

MATH-29200 Independent Study NS LA
Readings on selected subjects with frequent, informal discussions with the instructor. Prerequisites: Permission of instructor. 1–3 credits. (IRR)

MATH-30300 Abstract Algebra NS LA
Introduction to algebraic structures. Study includes concepts from group theory, ring theory, or field theory. Topics may include Abelian groups, cyclic groups, permutation groups, factor groups, ideals, quotient rings, integral domains, isomorphisms, and homomorphisms. Additional topics may be included. Prerequisites: MATH-26000. 4 credits. (F,Y)

MATH-30500 Introduction to Analysis NS LA
Topology of the real line. Continuity, differentiability, and integrability of functions of a real variable. Prerequisites: MATH-21100; MATH-26100. 4 credits. (S,Y)

MATH-31600 Probability/Statistics NS LA
Specific content varies. Topics may include some of the following: probability systems; random variables, their distributions and expected values; Poisson and the theory of Markov processes; estimation theory (point, interval, and Bayesian inference); hypothesis testing; regression theory; correlation; and time series. Prerequisites: MATH-21100; MATH-26100. 4 credits. (F,O)

MATH-34000 Operations Research NS LA
Emphasis is placed on mathematics used in applications. Specific content varies. Topics may include some of the following: mathematical modeling such as linear programming, dynamic programming, applied Markov processes, queuing theory, and game theory; numerical analysis, such as numerical solutions of linear and nonlinear equations, interpolation, numerical differentiation and integration, numerical solutions to differential equations, and functional approximations; simulation such as Monte Carlo methods, continuous models, discrete events, random number generation, and statistical output analysis; applied graph theory; applied statistics; and applied dynamical systems. Prerequisites: MATH-21100; MATH-26100. 4 credits. (S,S)
MATH-36200 Modern Geometry
Rigorous development of Euclidean and hyperbolic geometry from both a metric and synthetic point of view. Some topics in transformational geometry are also covered. Prerequisites: MATH-26100; one course at the level of MATH-21200 or higher, excluding MATH-26000. 4 credits. (F,E)

MATH-39000 Selected Topics in Mathematics
Topics to be determined by instructors and department. Fulfills a required mathematics elective. This course may be repeated for credit when topics vary. Prerequisites: MATH-26100 or equivalent; other prerequisites as appropriate to topics. 1–4 credits. (IRR)

MATH-39100 Independent Study
Reading on selected subjects with frequent, informal discussions with the instructor. This course may be repeated for credit for different studies. Does not fulfill a required mathematics elective. Prerequisites: MATH-26100 or equivalent. 1–3 credits. (IRR)

MATH-39200 Independent Study
Reading on selected subjects with frequent, informal discussions with the instructor. Fulfills a required mathematics elective. This course may be repeated for credit for different studies. Prerequisites: MATH-26100, or equivalent. 1–3 credits. (IRR)

MATH-39500 Selected Topics in Mathematics
Topics to be determined by instructors and department. This course may be repeated for credit for selected topics on different subjects. Does not fulfill a required mathematics elective. Prerequisites: MATH-26100 or equivalent; other prerequisites as appropriate to topics. 1–4 credits. (F-S,Y)

MATH-39700 Junior Seminar
Students will work with faculty on focused mathematical investigations. Research problems will be presented by faculty teaching MATH-39810 Research Experience in Mathematics. Students will attend a variety of talks related to mathematics. Weekly problem solving related to research topics. Prerequisites: MATH-29100. Pass/Fail only. 1 credit. (F, Y)

MATH-39810 Research Experience in Mathematics
Students actively participate in mathematical investigation and exposition, working collaboratively on research questions. Review of relevant literature and research methods will be incorporated. Students are required to present their findings both in writing (consistent with the standards of the discipline) and in public presentations. Topics vary by instructor. Prerequisites: MATH-39700; permission of instructor. 3 credits. (S,Y)

MATH-40100 Selected Topics in Theoretical Continuous Mathematics
Emphasis is on mathematical topics in which the concept of continuity plays a key role. Specific content varies. Topics may include, but are not limited to, the following: topology, such as point-set topology, metric topology, geometric topology, differential topology, and manifold theory; advanced real analysis, such as sequences and series of functions, convergence of functions and integration theory; topology of the real line and function theory; complex analysis such as analytic functions, conformal mappings, elementary functions and power series, and complex integration and calculus of residues; advanced differential equations, such as ordinary equations of first and higher orders, singular solutions, total differential equations, and solution by series; fractal geometry; and continuous dynamical systems. Prerequisites: At least one level-3 mathematics course; permission of the instructor. 4 credits. (S,E)

MATH-40200 Selected Topics in Theoretical Discrete Mathematics
Emphasis is placed on mathematical topics principally concerned with discrete entities. Specific content varies. Topics may include, but are not limited to, the following: number theory, such as properties of integers, diophantine equations, congruence, and quadratic reciprocity; algebra, such as advanced topics in group, ring, and field theory, automorphisms, and Galois theory; graph theory; discrete dynamical systems; and combinatorics. Prerequisites: MATH-30300. 4 credits. (S, O)

MATH-40000 Selected Topics in Applied Mathematics
Emphasis is on mathematics in an applied setting. Topics may include, but are not limited to, the following: stochastic processes, actuarial mathematics, partial differential equations and applied dynamical systems, numerical analysis, and applied statistics. Prerequisites: At least one level-3 mathematics course. 4 credits. (F,E)

MATH-48000 Connections in Advanced Mathematics
Study of connections and relationships among various disciplines within mathematics. Specific content varies. Topics may include, but are not limited to, the following: historical development of mathematics and various philosophies of mathematics, cultural similarities and differences in viewpoints and developments in mathematics, cross-discipline approaches that combine subdisciplines such as probability techniques in number theory and random graph theory, field theory and geometric constructions, and algebraic topology. Prerequisites: At least one level-3 course in mathematics or the related discipline; permission of instructor. 4 credits. (S,E)

MATH-49000 Selected Topics in Advanced Mathematics
Topics to be selected by instructor and students. Fulfills a required mathematics elective. This course may be repeated for credit when topics vary. Prerequisites: MATH-26100 or equivalent; other prerequisites as appropriate to topics. 3 credits. (IRR)

MATH-49100 Independent Study
Reading on selected advanced subjects, with frequent, informal discussions with the instructor. Does not fulfill a required mathematics elective. This course may be repeated for credit. Prerequisites: Permission of instructor. 1–3 credits.

MATH-49200 Independent Study
Reading on selected advanced subjects, with frequent, informal discussions with the instructor. Fulfills a required mathematics elective. This course may be repeated for credit. Prerequisites: Permission of instructor. 1–3 credits.

MATH-49300–MATH-49400 Honors Course
Preparation of honors thesis in partial fulfillment of requirement for graduation with honors in mathematics. Prerequisites: Honors standing in mathematics. 1–2 credits. (IRR)

MATH-49500 Selected Topics in Advanced Mathematics
Topics to be selected by instructor and students. Does not fulfill a required mathematics elective. This course may be repeated for credit when topics vary. Prerequisites: MATH-26100 or equivalent; other prerequisites as appropriate to topics. 3 credits.

MODERN LANGUAGES AND LITERATURES

Bachelor of Arts
Gladys M. Varona-Lacey, Professor and Chair
The Department of Modern Languages and Literatures (DMLL) offers curricula in French, German area studies, Italian studies, and Spanish leading to a bachelor of arts degree, as well as courses in Arabic, Chinese, Hebrew, and Latin. The DMLL serves the interests of students in their desire to communicate with and understand other peoples through the study of language, literature, culture, and civilization, and seeks to develop students’ knowledge of the structure, use, and history of the languages. The department supports cross-cultural exploration and interdisciplinary study, and facilitates and encourages study abroad. The department prepares students for teaching language in middle and secondary schools, for graduate or professional school, and for the workplace. Our recent graduates who combined language study with coursework in other fields have entered professions such as law, medicine, business, government, social work, journalism, advertising, and banking.

Requirements for Honors in French, German, Italian, and Spanish
Students may apply as candidates for honors in French, German, Italian, or Spanish at the end of their junior year, but no later than the second week of the first semester of their senior year. To qualify, students must have a cumulative average of 3.50 in their major language, and propose a topic to the chair and the language committee. Upon approval of the proposal, the student will write an honors paper as a 3-credit independent study project under the supervision of an assigned adviser, and subsequently undertake the defense of the honors paper at an oral examination conducted by three members of the department. If the project is judged by the honors committee to earn at least the grade of B, the student is awarded departmental honors.

Departmental Policies on Placement Examinations
1. Students with no previous training in a foreign language may begin by taking a 10100 course.
2. Students who have studied a foreign language in high school are required to take the appropriate placement test and register for courses as per placement by the DMLL.
Modern Languages and Literatures

3. Transfer students who have earned college credit in a foreign language may register for a course at the appropriate level indicated by their college transcripts.

To be formally accepted into a language major, students must demonstrate proficiency at the intermediate level in the chosen language. Proficiency can be demonstrated by language placement test scores or by completing the intermediate I and II (-20100, -20200) courses.

A student may major in more than one language if his or her curriculum permits.

Study Abroad
General academic regulations concerning occasional credit from external sources apply to study abroad. In addition, the DMLL allows a maximum of 12 major credits for a semester, or 15 major credits comparable to courses taught within the Department of Modern Languages and Literatures (16 when earned in 4-credit courses) for an academic year of study abroad.

Certificate Program in International Business
In conjunction with the School of Business, the DMLL offers a certificate in International Business. See p. 21 for details.

Requirements for the Major in French — B.A.
Credits in the major
- LNGS-23200 Introduction to Linguistics 3
- Courses in a second language: All French majors are required to complete a second foreign language (besides French) through the intermediate level or demonstrate equivalent proficiency as part of their major requirements

Electives

Electives 69–81
Total, B.A. in French 120

Requirements for the Major in German Area Studies — B.A.
Credits in the major
- German beyond GERM-20200 18–30
- German area studies courses: Decisions regarding the appropriateness of a course for the German area studies major are made on an ongoing basis by the German area studies steering committee. A list of German area studies courses is available each semester from the DMLL.

LNGS-23200 Introduction to Linguistics 3
- Courses in a second foreign language through the 200 level, or equivalent proficiency 0–12

Electives

Electives 75–87
Total, B.A. in German 120

Requirements for the Major in Italian Studies — B.A.
Credits in the major
- Italian beyond ITAL-20200 18–30
- Italian studies courses: Decisions regarding the appropriateness of a course for the Italian studies major are made on an ongoing basis by the Italian studies steering committee. A list of Italian studies courses is available each semester from the DMLL.

LNGS-23200 Introduction to Linguistics 3
- Courses in a second language through the 200 level, or equivalent proficiency 0–12

Electives

Electives 75–87
Total, B.A. in Italian studies 120

Requirements for the Major in Spanish — B.A.
Credits in the major
- SPAN-33700 Introduction to Spanish Literature 3
- SPAN-33800 Introduction to Latin American Literature 3
- Additional Spanish courses numbered SPAN-20100 or above 30

LNGS-23200 Introduction to Linguistics 3
- Courses in a second foreign language through the 200 level, or equivalent proficiency 0–12

Electives

Electives 69–81
Total, B.A. in Spanish 120

Note: Unless otherwise specified, all courses are for 3 credits.

Minors in Modern Languages and Literatures

Requirements for the Minor in French
Requirements for the minor in French are a minimum of 18 credits beyond level 1 FREN-10200. French courses at level 1 will earn credit toward graduation but not toward the minor. (See statement on placement tests, above.)

Requirements for the Minor in German Area Studies
Requirements for the minor in German area studies are a minimum of 18 credits beyond GERM-10100 with at least 6 credits from level-3 German courses. The student who begins with GERM-10100 will receive credit toward graduation but not toward the minor. Students may count up to 6 credits of German area studies courses toward the minor. (See statement on placement tests, above.)

Requirements for the Minor in Italian
Requirements for the minor in Italian are a minimum of 18 credits beyond ITAL-10100 with at least 6 credits at level 3. The student who begins with ITAL-10100 will receive credit toward graduation but not toward the minor. (See statement on placement tests, above.)

Requirements for the Minor in Spanish
Requirements for the minor in Spanish are a minimum of 18 credits beyond SPAN-20200 with at least 6 credits at level 3. Spanish courses at level 1 will receive credit toward graduation but not toward the minor. (See statement on placement tests, above.)

Departmental Requirements for the B.A. in French with Teaching Option
Credits in the major
- LNGS-23200 Introduction to Linguistics 3
- French courses numbered FREN-20100 and above 36
- Courses in a second language: All French majors are required to complete a second foreign language through the intermediate level or demonstrate equivalent proficiency as part of their major requirements.

Total, credits in the major 39–51

Core education requirements
- EDUC-21910 Early Field Experience: Theory and Practice 3
- COMP-20100 Technology for the Middle/Secondary School Teacher 2
- EDUC-10100 Literacy Education for the Middle/Secondary School Teacher 2
- SLPA-23900 Educating Children with Special Needs 2
- PSYC-21010 Educational Psychology 3
- EDUC-34000 Social and Cultural Foundations of Education 3
- EDUC-30810 Pedagogy and Practice across the Disciplines 3
- EDUC-31310 Pedagogy and Practice for the Teacher of Languages Other Than English 3
- EDUC-41210 Seminar in Reflective Practice 3
- EDUC-49810 Professional Semester in Education 3
- EDUC-11000 Child Abuse Identification and Prevention 0
- EDUC-11110 Drug and Alcohol Abuse: Identification and Prevention 0

Total, core education requirements 36

Note: SLPA-22900 Second Language Acquisition: Its Nature and Meaning for Educators will not be required of French with teaching option majors because material covered in that course duplicates that covered in EDUC-31310 Pedagogy and Practice for the Teacher of Languages Other Than English.
**Additional core requirements**

1. All teaching-option students must successfully complete a writing course numbered WRTG-10600 or above.

2. All teaching-option students must successfully complete the second-year review and maintain a minimum 2.75 GPA in their subject. If a student receives an unsuccessful review or a review with stipulations, the student must participate in and successfully pass a second review the following year. Unsuccessful reviews and reviews with stipulations will be accompanied by a written statement outlining what must be done before the next review is complete.

3. Students must earn a grade of B or better in EDUC-30810 and EDUC-31310 to qualify for student teaching. A grade of B- does not qualify.

4. EDUC-49810 Professional Semester in Education and EDUC-41210 Seminar in Reflective Practice constitute a full course load during the student-teaching semester. No additional courses may be taken.

5. All candidates for initial certification must successfully complete all three sections of the New York State Teacher Certification Examinations: the liberal arts and sciences test, the assessment of teaching skills-written, and the content area exam.

6. The student’s department chair and the coordinator of teacher education must approve any exceptions to the above requirements.

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**Departmental Requirements for the B.A. in German with Teaching Option**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electives</td>
<td>33-45</td>
</tr>
<tr>
<td>Total, B.A. in German with teaching option</td>
<td>120</td>
</tr>
</tbody>
</table>

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**Credits in the major**

- **LNGS-22200**: Credits in the major beyond GERM-20200 30
- **Credits in a second modern language**: 12
- **Total, credits in the major**: 45

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**Core education requirements**

1. **EDUC-21910**: Early Field Experience: Theory and Practice 3
2. **COMP-20100**: Technology for the Middle/Secondary School Teacher 2
3. **EDUC-10100**: Literacy Education for the Middle/Secondary School Teacher 2
4. **SLPA-23900**: Educating Children with Special Needs 2
5. **PSYC-21010**: Educational Psychology 3
6. **EDUC-34000**: Social and Cultural Foundations of Education 3
7. **EDUC-30810**: Pedagogy and Practice across the Disciplines 3
8. **EDUC-31310**: Pedagogy and Practice for the Teacher of Languages Other Than English 3
9. **EDUC-41210**: Seminar in Reflective Practice 3
10. **EDUC-49810**: Professional Semester in Education 12
11. **EDUC-11000**: Child Abuse Identification and Prevention 0
12. **EDUC-11100**: Drug and Alcohol Abuse: Identification and Prevention 0

**Total, core education requirements**: 36

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**Note:** SLPA-22900 Second Language Acquisition: Its Nature and Meaning for Educators will not be required of German with teaching option majors because the material covered in that course duplicates that covered in EDUC-31310 Pedagogy and Practice for the Teacher of Languages Other Than English.

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**Additional core requirements**

1. All teaching-option students must successfully complete a writing course numbered WRTG-10600 or above.

2. All teaching-option students must successfully complete the second-year review and maintain a minimum 2.75 GPA in their subject. If a student receives an unsuccessful review or a review with stipulations, the student must participate in and successfully pass a second review the following year. Unsuccessful reviews and reviews with stipulations will be accompanied by a written statement outlining what must be done before the next review is complete.

3. Students must earn a grade of B or better in EDUC-30810 and EDUC-31310 to qualify for student teaching. A grade of B- does not qualify.

4. EDUC-49810 Professional Semester in Education and EDUC-41210 Seminar in Reflective Practice constitute a full course load during the student-teaching semester. No additional courses may be taken.

5. All candidates for provisional or initial certification must successfully complete all three sections of the New York State Teacher Certification Examinations: the liberal arts and sciences test, the assessment of teaching skills-written, and the content area exam.

6. The student’s department chair and the coordinator of teacher education must approve any exceptions to the above requirements.

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**Electives**

- **Total, B.A. in German with teaching option**: 120

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**Departmental Requirements for the B.A. in Spanish with Teaching Option**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electives</td>
<td>39-51</td>
</tr>
<tr>
<td>Total, B.A. in Spanish with teaching option</td>
<td>120</td>
</tr>
</tbody>
</table>

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**Credits in the major**

- **SPAN-33700**: Introduction to Spanish Literature 3
- **SPAN-33800**: Introduction to Latin American Literature 3
- **SPAN-21010**: Additional Spanish courses numbered SPAN-21000 and above 30
- **LNGS-22200**: Introduction to Linguistics 3
- **Courses in a second language**: All Spanish majors 0–12 are required to complete a second language through the intermediate level or demonstrate equivalent proficiency as part of their major requirements.

**Total, credits in the major**: 39-51

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**Core education requirements**

1. **EDUC-21910**: Early Field Experience: Theory and Practice 3
2. **COMP-20100**: Technology for the Middle/Secondary School Teacher 2
3. **EDUC-10100**: Literacy Education for the Middle/Secondary School Teacher 2
4. **SLPA-23900**: Educating Children with Special Needs 2
5. **PSYC-21010**: Educational Psychology 3
6. **EDUC-34000**: Social and Cultural Foundations of Education 3
7. **EDUC-30810**: Pedagogy and Practice across the Disciplines 3
8. **EDUC-31310**: Pedagogy and Practice for the Teacher of Languages Other Than English 3
9. **EDUC-41210**: Seminar in Reflective Practice 3
10. **EDUC-49810**: Professional Semester in Education 12
11. **EDUC-11000**: Child Abuse Identification and Prevention 0
12. **EDUC-11100**: Drug and Alcohol Abuse: Identification and Prevention 0

**Total, core education requirements**: 36

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**Note:** SLPA-22900 Second Language Acquisition: its Nature and Meaning for Educators will not be required of Spanish with teaching option majors because the material covered in that course duplicates that covered in EDUC-31310 Pedagogy and Practice for the Teacher of Languages Other Than English.

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**Additional core requirements**

1. All teaching-option students must successfully complete a writing course numbered WRTG-10600 or above.

2. All teaching-option students must successfully complete the second-year review and maintain a minimum 2.75 GPA in their subject. If a student receives an unsuccessful review or a review with stipulations, the student must participate in and successfully pass a second review the following year. Unsuccessful reviews and reviews with stipulations will be accompanied by a written statement outlining what must be done before the next review is complete.

3. Students must earn a grade of B or better in EDUC-30810 and EDUC-31310 to qualify for student teaching. A grade of B- does not qualify.

4. EDUC-49810 Professional Semester in Education and EDUC-41210 Seminar on the Practical Issues of Teaching constitute a full course load during the student-teaching semester. No additional courses may be taken.

5. All candidates for provisional or initial certification must successfully complete all three sections of the New York State Teacher Certification Examinations: the liberal arts and sciences test, the assessment of teaching skills-written, and the content area exam.

6. The student’s department chair and the coordinator of teacher education must approve any exceptions to the above requirements.

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**Electives**

- **Total, B.A. in Spanish with teaching option**: 120
Policy on Prerequisites
A grade of C- or better is required for a −10100, −10200, −20100, and −20200 course in any language to fulfill a prerequisite for another course in the same language.

LINGUISTICS COURSES

LNGS-23200 Introduction to Linguistics
An introduction to the fundamental areas and concepts of modern linguistics. Study of sounds and sound patterns, word and sentence structure, and language change. Other topics may include semantics, language acquisition, dialects, and pidgins and creole languages. Prerequisites: One course in the humanities or social sciences. Open to all students. Students may not earn credit for both LNGS-23200 and LNGS-23300. 3 credits. (S,Y)

LNGS-23300 Introduction to Linguistics
Required for speech-language pathology and audiology majors. A general study of all aspects of normal communication — language acquisition, phonology, morphology, syntax, semantics, changes, dialects, etc. Students may not earn credit for both LNGS-23300 and LNGS-23200. 3 credits. (F-S,Y)

FRENCH COURSES

Unless otherwise specified, all courses will be taught in French.

FREN-10100 Elementary French I
Beginning course. Practice in understanding, speaking, reading, and writing simple idiomatic French in the context of French and francophone cultures. Emphasizes participation and self-expression. Open to students with no previous French, or by placement examination. 3 credits. (F-S,Y)

FREN-10200 Elementary French II
Continuation of FREN-10100. Limited to students who have successfully completed FREN-10100 with a grade of C- or better, or by placement examination. Prerequisites: FREN-10100 or equivalent. 3 credits. (F-S,Y)

FREN-10400 Intensive Elementary French
An accelerated introductory-level course for students who have previously studied French. The course prepares students for FREN-20100 by reviewing material covered in FREN-10100 and presenting FREN-10200 content. Students may not receive credit for both FREN-10400 and FREN-20100 or FREN-10200. By placement only. 3 credits. (F-S,Y)

FREN-20100 Intermediate French I
Develops intermediate-level proficiency in speaking, listening, reading, and writing French. Special emphasis is given to French culture. Prerequisites: FREN-10200 or FREN-10400 with a grade of C- or better. 3 credits. (F-S,Y)

FREN-20200 Intermediate French II
Continuation of FREN-20100. Develops intermediate-level proficiency in speaking, listening, reading, and writing French. Special emphasis is given to French culture. Prerequisites: FREN-20100 with a grade of C- or better. 3 credits. (F-S,Y)

FREN-20300 French Intermediate Conversation
An optional conversation course for students enrolled in FREN-20100 and FREN-20200 who want to maximize their conversational skills. May be repeated for a total of 2 credits. Does not count toward major or minor. Corequisites: FREN-20100 or FREN-20200. 1 credit. (F-S,Y)

FREN-29990 Independent Study
Individual research, study, and/or writing on particular topics supervised by a member of the department. Offered on demand only. Prerequisites: Permission of instructor and chairperson. 1–3 credits. (IRR)

FREN-30100 Spoken and Written Communication
Developing spoken and written communication skills at the third-year level. Reading and discussion of contemporary material. Also offered through the London Center (F.O). Prerequisites: FREN-20200 with a grade of C- or better or equivalent. 3 credits. (F-S,Y)

FREN-31200 French Literature in Translation
Study of the principal works of major French writers. Readings and all class activities are in English. Prerequisites: Three courses in the humanities and/or fine arts. 3 credits. (IRR)

FREN-31300 Introduction to French Literature
A study of representative texts in French literature in all genres. Prerequisites: FREN-30100 (may be taken concurrently). 3 credits. (IRR)

FREN-32200 Advanced French Grammar and Composition
Advanced study of French grammar with an emphasis placed on composition, including register, genres, and style. Prerequisites: FREN-30100 (or equivalent with permission of instructor). 3 credits. (IRR)

FREN-32300 French Phonetics
Intensive practical phonetics for American speakers of French. Emphasis is placed on correct pronunciation, orthography, and understanding of contemporary dialects. Prerequisites: FREN-30100. 3 credits. (IRR)

FREN-34200 Conversational French
An advanced course in conversation and discussion of contemporary events. Prerequisites: FREN-30100. 3 credits. (IRR)

FREN-34300 The Evolution of French Civilization
Study of how concrete elements of French civilization, key figures, government, society, ideas, literature, and the arts evolved from prehistoric times to the 20th century. Taught in French. Prerequisites: FREN-30100. 3 credits. (IRR)

FREN-34400 Contemporary French Culture
Exploring modern France and francophone countries from a total culture point of view: geography, politics, and economy, as well as literature, sciences, music, cinema, gastronomy, and the arts. Taught in French. Prerequisites: FREN-30100 (or equivalent with permission of instructor). 3 credits. (FE)

FREN-34500 Francophone Literature
An introduction to the literature of French expression originating outside France. Discussions will focus on colonization, postcolonization, religion (Christianity, Islam, Judaism, animism), gender, and ethnicity. Prerequisites: FREN-30100 or equivalent. 3 credits. (IRR)

FREN-35700 Advanced Writing
Study of diverse literary models, composition, and translation, according to individual needs. May be repeated once for credit. Prerequisites: FREN-32200 or equivalent with permission of instructor. 3 credits. (IRR)

FREN-37700 Selected Topics in French Literature and Culture
Study of a genre, time period, group of authors, or single major writer. May be repeated for credit when topics vary. Taught in French. Prerequisites: FREN-30100 or equivalent with permission of instructor. 3 credits. (IRR)

FREN-39970 Independent Study
Individual research, study, and/or writing on particular topics supervised by a member of the department. Offered on demand only. Prerequisites: FREN-30100; permission of instructor and chairperson. 1–3 credits. (IRR)

FREN-40100 Seventeenth- and 18th-Century French Literature
Study of representative works. Prerequisites: FREN-30100 or equivalent with permission of instructor. 3 credits. (IRR)

FREN-40400 The French Medieval Experience
An introduction to the culture of medieval France, with a focus on literature. Most selections will be in modern French. Readings may include La Chanson de Roland, Chrétien de Troyes' legends of the Round Table; lais of Marie de France, and poems of François Villon. Prerequisites: FREN-30100. 3 credits. (IRR)

FREN-41500 French Literature of the Renaissance
An introduction to the literature of 16th-century France in a historical and cultural context. Readings may include Montaigne, Marguerite de Navarre, Rabelais, and Pléiade poets Ronsard and Du Bellay, among others. Prerequisites: FREN-30100 or equivalent. 3 credits. (IRR)

FREN-45100 Nineteenth- and 20th-Century French Literature
Study of representative works. Prerequisites: FREN-30100 or equivalent with permission of instructor. 3 credits. (IRR)

FREN-47700 Seminar: Readings in French Literature
Selected themes or topics in French literature. May be repeated for credit when topics vary. Prerequisites: Permission of instructor. 1–3 credits. (IRR)

FREN-49990 Independent Study
Individual research, study, and/or writing on particular topics supervised by a member of the department. Offered on demand only. Prerequisites: Permission of instructor and department chair. 1–3 credits. (IRR)
GERMAN COURSES

Unless otherwise specified, all courses will be taught in German.

**GERM-10100** Elementary German I  
HU LA 3a, g  
Beginning course. Practice in understanding, speaking, reading, and writing simple idiomatic German with special attention to German culture. Emphasizes participation and self-expression. Open to students with no previous German, or by placement examination. 3 credits. (FY)

**GERM-10200** Elementary German II  
HU LA 3a, g  
Continuation of GERM-10100. Limited to students who have successfully completed GERM-10100 with a grade of C- or better, or by placement examination. Prerequisites: GERM-10100 or equivalent. 3 credits. (FY)

**GERM-15100** Elementary German for Reading Knowledge  
HU LA  
Emphasis is placed on rapid development of reading skills and principles of German grammar and their application to reading comprehension. Extensive reading in German culture and literature. 3 credits. (IRR)

**GERM-20100** Intermediate German I  
HU LA 3a, g  
Develops intermediate-level proficiency in speaking, listening, reading, and writing German. Special emphasis is given to German culture. Prerequisites: GERM-10200 with a grade of C- or better. 3 credits. (FY)

**GERM-20200** Intermediate German II  
HU LA 3a, g  
Continuation of GERM-20100. Develops intermediate-level proficiency in speaking, listening, reading, and writing German. Special emphasis is given to German culture. Prerequisites: GERM-20100 with a grade of C- or better. 3 credits. (FY)

**GERM-25000** History of German Film  
HU LA  
A study of the principal films of major German directors. This class will cover the complete history of German film, from early silent cinema to contemporary films. Emphasis is given to the historical and cultural context of each film, as well as the film's relationship to questions of German identity. Readings include historical as well as theoretical texts. Conducted in English. Prerequisites: Two courses in the humanities. 3 credits. (IRR)

**GERM-25200** German Literature in Translation  
HU LA  
Study of principal works of major writers and representative works of various periods. Prerequisites: Two courses in the humanities. 3 credits. (IRR)

**GERM-27500** Twentieth-Century German Intellectual Thought  
HU LA  
A study of the principal currents of 20th-century German intellectual thought, with particular emphasis on the relationship of the individual to society and on Marxist theories of art and popular culture. Readings include Freud, Heidegger, Benjamin, Adorno, and Habermas. Conducted in English. Prerequisites: One course in the humanities. 3 credits. (IRR)

**GERM-29900** Independent Study  
U LA  
Individual research, study, and/or writing on particular topics, supervised by a member of the department. Offered on demand only. Prerequisites: Permission of instructor and department chair. 1–3 credits. (IRR)

**GERM-30100** Spoken and Written Communication in German I  
HU LA 3a, g  
Developing spoken and written communication skills at the third-year level. Reading and discussion of contemporary material. Writing practice. Laboratory exercises. Prerequisites: GERM-20200 with a grade of C- or better or equivalent. 3 credits. (FY)

**GERM-30200** Spoken and Written Communication in German II  
HU LA 3a, g  
Developing spoken and written communication skills at the third-year level. Reading and discussion of contemporary material, writing practice, and laboratory exercises. Prerequisites: GERM-30100 or equivalent. 3 credits. (S,Y)

**GERM-31200** Advanced German Grammar and Composition  
HU LA  
Advanced study of German grammar with an emphasis placed on composition. Prerequisites: GERM-20200 with a grade of C- or better, or equivalent with permission of instructor. 3 credits. (IRR)

**GERM-32300** German Oral Practice  
HU LA 3a, g  
Extensive oral practice using selected topics as a basis for conversation, discussion, and presentations or short talks. Prerequisites: GERM-20200 with a grade of C- or better. 2 credits. (IRR)

**GERM-34100** German Cultural History  
HU LA 3a, g  
Study of the civilization and culture of Germany and other German-speaking countries. Usually taught in English. Prerequisites: Sophomore standing; permission of instructor. 3 credits. (S,E)

**GERM-36500** Masterworks in German  
HU LA  
Study of selected literary works of significant writers of the 18th, 19th, and 20th centuries. Taught in German. Prerequisites: One level-3 German course taught in German or equivalent. 3 credits. (E,O)

**GERM-38100–GERM-38200** German Conversation and Culture  
HU LA 3a, g  
Concentration on the use of language in oral communication. Readings and discussion to focus on areas of German civilization and culture with attention to art, literature, music, geography, history, social structures, and folk and popular culture. Taught in German. May be repeated when topics vary. Prerequisites: One level-3 course taught in German, or equivalent. 3 credits. (S,E)

**GERM-39300–GERM-39400** Selected Topics in German Literature  
HU LA  
Study of a genre, time period, group of authors, or single major writer. May be repeated two times each, for a total of 12 credits, when topics vary. Prerequisites: Two German courses at level 3. 3 credits. (S,E)

**GERM-39900** Independent Study  
HU LA  
Individual research, study, and/or writing on particular topics, supervised by a faculty member of the department. Offered on demand only. Prerequisites: Junior standing; permission of instructor and department chair. 1–3 credits. (S,E)

**GERM-47100–GERM-47200** Seminar  
HU LA  
Study of a selected topic or author in German literature or culture. May be repeated for credit when topics change each year. Taught in German. Prerequisites: Two German courses at level 3; senior standing. 3 credits. (IRR)

**GERM-49900** Independent Study  
ULA  
Individual research, study, and writing on particular topics, supervised by a faculty member of the department. Offered on demand only. Prerequisites: GERM-30100–GERM-30200, GERM-39300, or GERM-39400; permission of instructor and department chair. 1–3 credits.

HEBREW COURSES

Unless otherwise specified, all courses will be taught in Hebrew.

**HEBR-10100** Elementary Hebrew I  
HU LA 3a, g  
Beginning course. Practice in understanding, speaking, reading, and writing simple idiomatic Hebrew. Emphasis is placed on culture, participation, and self-expression. Open to students with no previous Hebrew, or by placement examination. 3 credits. (FY)

**HEBR-10200** Elementary Hebrew II  
HU LA 3a, g  
A continuation of HEBR-10100. Prerequisites: HEBR-10100 with a grade of C- or better, or equivalent. 3 credits. (S,Y)

**HEBR-20100** Intermediate Hebrew I  
HU LA 3a, g  
Develops intermediate-level proficiency in speaking, listening, reading, and writing Hebrew. Special emphasis is given to Hebrew culture. Prerequisites: HEBR-10200 with a grade of C- or better. 3 credits. (FY)

**HEBR-20200** Intermediate Hebrew II  
HU LA 3a, g  
Continuation of HEBR-20100. Develops intermediate-level proficiency in speaking, listening, reading, and writing Hebrew. Special emphasis is given to Hebrew culture. Prerequisites: HEBR-20100 with a grade of C- or better. 3 credits. (FY)

**HEBR-29900–HEBR-39000** Independent Study: Hebrew  
U LA  
Individual research, study, and/or writing on particular topics, supervised by a faculty member of the department. Prerequisites: Permission of instructor and department chair. 1–3 credits. (IRR)

ITALIAN COURSES

Unless otherwise specified, all courses will be taught in Italian.

**ITAL-10100** Elementary Italian I  
HU LA 3a, g  
Beginning course. Practice in understanding, speaking, reading, and writing simple idiomatic Italian, with special attention to Italian culture. Emphasizes participation and self-expression. Open to students with no previous Italian, or by placement examination. 3 credits. (FY)
ITAL-10200 Elementary Italian II
Continuation of ITAL-10100. Limited to students who have successfully completed ITAL-10100 with a grade of C- or better, or by placement examination. Prerequisites: ITAL-10100 or equivalent. 3 credits. (F-S,Y)

ITAL-20100 Intermediate Italian I
Develops intermediate-level proficiency in speaking, listening, reading, and writing Italian. Special emphasis is given to Italian culture. Prerequisites: ITAL-10200 with a grade of C- or better. 3 credits. (F-S,Y)

ITAL-20200 Intermediate Italian II
Continuation of ITAL-20100. Develops intermediate-level proficiency in speaking, listening, reading, and writing Italian. Special emphasis is given to Italian culture. Prerequisites: ITAL-20100 with a grade of C- or better. 3 credits. (S,Y)

ITAL-20500 Italy: Language and Culture
A three-week study abroad course that emphasizes learning Italian language skills with an overview of the history and culture of Italy. The course will be based in Siena, Italy, with brief visits to other cities, including Florence, Venice, and Rome. The course includes a conversationally based Italian class and on-site sessions devoted to learning about the culture and civilization of Italy. Students will incur additional costs. Prerequisites: ITAL-10100 or the equivalent; application through the Office of International Programs. 3 credits. (Sum,IRR)

ITAL-27000 Inferno to Infinity: Italian Literature in Translation
An overview of Italian literature from the Middle Ages through modernity, through a study of principal works of major authors and representative works of various periods. Readings and all class activities are in English. Prerequisites: Two courses in the humanities. 3 credits. (IRR)

ITAL-29990 Independent Study
UL Individual research, study, and/or writing on particular topics, supervised by a member of the department. Offered on demand only. Prerequisites: Permission of instructor and department chair. 1–3 credits. (IRR)

ITAL-32300 Partiamo! Italian Conversation I
Extensive oral practice using selected topics as a basis for conversation, discussion, and presentation of short talks. Prerequisites: ITAL-20200 with a grade of C- or better, or equivalent. 3 credits. (F,IRR)

ITAL-32400 Partiamo! Italian Conversation II
Continuation of ITAL-32300. Prerequisites: ITAL-32300 or equivalent. 3 credits. (S,IRR)

ITAL-32800 Practice in Reading and Writing in Italian
Develops spoken and written communication skills at the third-year level. Reading and discussion of contemporary material. Writing practice with an emphasis placed on developing grammatical skills. Laboratory exercises. Prerequisites: ITAL-20200 with a grade of C- or better. 3 credits. (IRR)

ITAL-33000 The Italian Americans
This course examines the experience and assimilation of Italian immigrants to the United States. It will explore general themes: the conditions in South Italy that compelled Italians to emigrate; the role of the family; the effects of prejudice; Italian American women; portrayals of popular culture; the future of Italian Americans. Taught in English. Prerequisites: Three courses in the humanities. 3 credits. (IRR)

ITAL-34000 Italian Contemporary Culture
This course introduces students to Italian contemporary art, popular music, literature, cinema, social, regional differences, politics, traditional festivities, mass media, and regional cuisine. Students will practice speaking, reading, comprehension, and writing by discussing and analyzing selected materials and Italian newspapers. The course will be conducted in Italian. Prerequisites: ITAL-32300, ITAL-32400, or ITAL-32900. 3 credits. (IRR)

ITAL-35000 Italian Culture through Cinema
This course is intended to introduce students to the language, culture, history, and changing social issues depicted by Italian cinema of the past four decades. Special attention will be paid to the integration of films with close reading, discussion, and analysis of literary and cinematic texts that address such issues as national identity, immigration and emigration, the rise and fall of Fascism, the new republic, the north/south question, and contemporary regional cultural differences. The course, moreover, affords extensive practice in speaking, reading, comprehension, and writing in Italian. Prerequisites: ITAL-20200. 3 credits. (IRR)

ITAL-36500 Nineteenth- and 20th-Century Italian Literature
A study of selected literary works by key authors from the late 19th through the 20th century. Readings may include novels, plays, and short stories by writers such as Verga, Pirandello, and Calvino. Taught in Italian. Prerequisites: One level-3 Italian course taught in Italian or equivalent. 3 credits. (IRR)

ITAL-38000–ITAL-38009 Selected Topics in Italian Literature and Culture
Study of a genre, time period, group of authors, or single major writer. Students may only take two selected topics courses, for a total of 6 credits. Taught in Italian. Prerequisites: Two Italian courses at level 3, or equivalent. 3 credits. (IRR)

ITAL-39990 Independent Study
UL Individual research, study, and/or writing on particular topics, supervised by a member of the department. Offered on demand only. Prerequisites: ITAL-32300, ITAL-32400, or equivalent; permission of instructor and department chair. 1–3 credits. (IRR)

ITAL-49990 Independent Study
UL Individual research, study, and/or writing on particular topics, supervised by a member of the department. Offered on demand only. Prerequisites: ITAL-32300, ITAL-32400, or equivalent; permission of instructor and chairperson. 1–3 credits. (IRR)

LATIN COURSES
LATN-10100 Elementary Latin I
Latin language, literature, and culture of ancient Rome and the Middle Ages. Emphasis on pronunciation, noun cases, agreement, phrases, and clauses. Readings include simple prose narratives from Roman history, fables, and mythology. Students work with an interactive computer program, supplemented by weekly review classes, drills, translations, and tests administered by the instructor. Open to students with no previous Latin, or by placement examination. 3 credits. (F-S,Y)

LATN-10200 Elementary Latin II
Continuation of LATN-10100 Elementary Latin I. Latin language, literature, and culture of ancient Rome and the Middle Ages. Emphasis on noun and verb system, agreement, phrases, and clauses. Readings include simple prose narratives from Roman history, fables, and mythology, and simple poetry. Students work with an interactive computer program, supplemented by weekly review classes, drills, translations, and tests administered by the instructor. Prerequisites: LATN-10100 with a grade of C- or better, or by placement exam. 3 credits (F-S,Y)

LATN-20100 Intermediate Latin I
Continuation of LATN-10200 Elementary Latin II. Latin language, literature, and culture of ancient Rome and the Middle Ages. Emphasis on verb system, phrases, and clauses. Readings include prose narratives from Roman history, fables, and mythology, and simple poetry. Students work with an interactive computer program, supplemented by weekly review classes, drills, translations, and tests administered by the instructor. Prerequisites: LATN-10200 with a grade of C- or better, or by placement exam. 3 credits. (F-S,Y)

LATN-20200 Intermediate Latin II
Continuation of LATN-20100 Intermediate Latin I. Latin language, literature, and culture of ancient Rome and the Middle Ages. Emphasis on verb system, phrases, and clauses. Readings include advanced prose narratives from Roman history, fables, and mythology, and complex poetry. Students work with an interactive computer program, supplemented by weekly review classes, drills, translations, and tests administered by the instructor. Prerequisites: LATN-20100 with a grade of C- or better, or by placement exam. 3 credits. (F-S,Y)

SPANISH COURSES
SPAN-10100 Elementary Spanish I
Beginning course. Practice in understanding, speaking, reading, and writing simple idiomatic Spanish with special attention to Spanish culture. Emphasizes participation and self-expression. Open to students with no previous Spanish, or by placement examination. 3 credits. (F-S,Y)
SPAN-10200 Elementary Spanish II  HU LA 3a, g  
Continuation of SPAN-10100. Limited to students who have successfully completed SPAN-10100 with a grade of C- or better, or by placement examination. Prerequisites: SPAN-10100 or equivalent. 3 credits. (F-S,Y)

SPAN-10400 Intensive Elementary Spanish  HU LA  
An accelerated introductory-level course for students who have previously studied Spanish. The course prepares students for SPAN-20100 by reviewing material covered in SPAN-10100 and presenting SPAN-10200 content. Students may not receive credit for both SPAN-10400 and SPAN-10100 or SPAN-10200. By placement only. 3 credits. (F-S,Y)

SPAN-20100 Intermediate Spanish I  HU LA 3a, g  
Develops intermediate-level proficiency in speaking, listening, reading, and writing Spanish. Special emphasis is given to Spanish culture. Prerequisites: SPAN-10200 or SPAN-10400 with a grade of C- or better. 3 credits. (F-S,Y)

SPAN-20200 Intermediate Spanish II  HU LA 3a, g  
Continuation of SPAN-20100. Develops intermediate-level proficiency in speaking, listening, reading, and writing Spanish. Special emphasis is given to Spanish culture. Prerequisites: SPAN-20100 with a grade of C- or better. 3 credits. (F-S,Y)

SPAN-20300 Spanish Intermediate Conversation  HU LA  
An optional conversation course for students enrolled in SPAN-20100– 20200 who want to maximize their conversational skills. May be repeated for a total of 2 credits. Does not count towards major or minor. Corequisites: SPAN-20100 or SPAN-20200. 1 credit. (F-S,Y)

SPAN-24100 Spanish Civilization and Culture  HU LA 1, h, g  
Cultural exploration of Spain from its prehistory to the present. Topics include people, geography, politics, economy, literature, sciences, music, visual arts, gastronomy, and patterns of daily life. Prerequisites: SPAN-20200. 3 credits. (S,Y)

SPAN-24300 Latin American Civilization and Culture  HU LA 1, h, g  
An exploration of the people and cultures of the Caribbean, Central America, and South America, and their influence in the United States. Traces the development of these regions from precolonial cultures to contemporary liberation struggles, while addressing ethnicity, gender, religion, class, and the arts. Prerequisites: SPAN-20200. 3 credits. (F,Y)

SPAN-26600 Spanish/Latin American Literature in Translation  HU LA  
A study of one or more principal works of major Spanish and/or Latin American writers. Taught in English. Prerequisites: Sophomore standing and one course in the humanities. 3 credits. (IRR)

SPAN-29900 Independent Study  U LA  
Individual research, study, and/or writing on particular topics, supervised by a member of the department. Offered on demand only. Prerequisites: Permission of instructor and department chair. 1–3 credits. (IRR)

SPAN-32100 Advanced Spanish Grammar and Composition  HU LA  
Development of complex grammatical, semantic, and syntactical skills through writing and correction, and by examining different examples of written and spoken Spanish (both literary and nonliterary). Students will develop a sense of the writing process as an interaction between writer and reader, purpose and message. Prerequisites: SPAN-20200 with a grade of C- or better, or equivalent. 3 credits. (F-S,Y)

SPAN-32200 Analysis of Hispanic Literary Texts  HU LA  
Provides students with essential vocabulary for critical literary analysis, and introduces them to four literary genres (poetry, drama, fiction, and essay) through representative readings from both Spanish and Latin American literatures. Teaches students to read literature and write about it from an analytical perspective. Prerequisites: SPAN-32100. 3 credits. (F-S,Y)

SPAN-32300 Conversation I: Contemporary Issues  HU LA 3a, g  
Focuses on contemporary issues to develop students’ speaking skills, Discussions based on readings, both literary and nonliterary, including ethical and moral issues, politics, youth culture, and technology and society. Prerequisites: SPAN-20200 with a grade of C- or better. 3 credits. (F-S,Y)

SPAN-32400 Conversation II: The Spanish-Speaking World  HU LA 3a, g  
Focuses on issues specific to the Spanish-speaking world to improve students’ speaking skills. Topics based on readings, both literary and nonliterary, include Hispanic presence in the U.S., bilingual education, and language and cultural influences. Prerequisites: SPAN-32300. 3 credits. (F-S,Y)

SPAN-33200 Advanced Business/Professional Spanish  HU LA  
Practice in speaking, reading, and writing Spanish with an emphasis placed on business-oriented concepts and materials. Prerequisites: SPAN-32100 or SPAN-32200; SPAN-32300 or SPAN-32400. 3 credits. (S,Y)

SPAN-33700 Introduction to Spanish Literature  HU LA 3a, g  
An overview of Spanish literature from the Middle Ages to the present. Special attention will be given to literary movements and recurrent themes. Required for Spanish majors. Prerequisites: SPAN-32200 or SPAN-32300, or by placement examination. 3 credits. (F,Y)

SPAN-33800 Introduction to Latin American Literature  HU LA 3a, g  
An overview of Latin American literature from the colonial period to the present. Special attention will be given to literary movements and recurrent themes. Required for Spanish majors. Prerequisites: SPAN-32200 or SPAN-32300, or by placement examination. 3 credits. (S,Y)

SPAN-38000 Latino/a Culture through Literature  HU LA  
This course examines, through literature, the experience and assimilation of Spanish-speaking immigrants to the United States — at present, the nation’s largest minority group. It will explore such themes as how Latino/a authors negotiate a path between two cultures and two languages; the presence of Hispanic/Latino groups in the United States; racism and classism; religion; popular culture and the role of women; and the importance of the family. Prerequisites: Three courses in the humanities or social sciences. Taught in English. 3 credits. (IRR)

SPAN-39900 Independent Study  U LA  
Individual research, study, and/or writing on particular topics, supervised by a member of the department. Offered on demand only. Prerequisites: SPAN-32200, SPAN-32300, or equivalent; permission of instructor and department chair. 1–3 credits. (IRR)

SPAN-45000 The Art of Translation: Spanish to English, English to Spanish  HU LA  
Further study of the Spanish language through the art of translation. Students develop skills in English/Spanish and Spanish/English translation using a variety of texts (letters, literature, selections, short stories, and “how to” material). A close reading of the material translated helps the student focus on the nuances of each language and cultural differences. Prerequisites: SPAN-32100. 3 credits. (IRR)

SPAN-45400 Cervantes  HU LA  
A study of Don Quijote and a selected group of novelas ejemplares (short stories) and plays, with particular reference to Cervantes’s unique contribution to the modern novel and world literature. This course is offered in a four-year cycle with SPAN-45400, SPAN-45500, and SPAN-45700. Prerequisites: SPAN-35700 or SPAN-33800. 3 credits. (IRR)

SPAN-45500 Golden Age Drama  HU LA  
The drama of Spain’s golden age — the Renaissance and the baroque period — is one of the greatest achievements of world literature. We examine Spain’s national drama, its precepts, and its literary tradition created by Lope de Vega and continued for more than 100 years, from 1560 to 1700, by other playwrights such as Calderón, Tirso, and Alarcón. Offered in a four-year cycle with SPAN-45400, SPAN-45500, and SPAN-45700. Prerequisites: SPAN-35700 or SPAN-33800. 3 credits. (IRR)

SPAN-45600 Golden Age Poetry  HU LA  
The poetry of Spain’s golden age — the Renaissance and the baroque period — is one of the greatest achievements of world literature. We examine the Italianate poetry of Garcilaso de la Vega, and his followers, and the development of lyrical poetry by other poets of the periods such as Fray Luis de León, Lope de Vega, Francisco de Quevedo, and San Juan de la Cruz. Offered in a four-year cycle with SPAN-45400, SPAN-45500, and SPAN-45700. Prerequisites: SPAN-35700 or SPAN-33800. 3 credits. (IRR)

SPAN-45600 Golden Age Poetry  HU LA  
The poetry of Spain’s golden age — the Renaissance and the baroque period — is one of the greatest achievements of world literature. We examine the Italianate poetry of Garcilaso de la Vega, and his followers, and the development of lyrical poetry by other poets of the periods such as Fray Luis de León, Lope de Vega, Francisco de Quevedo, and San Juan de la Cruz. Offered in a four-year cycle with SPAN-45400, SPAN-45500, and SPAN-45700. Prerequisites: SPAN-35700 or SPAN-33800. 3 credits. (IRR)

SPAN-45700 Golden Age Prose  HU LA  
The prose of Spain’s golden age — the Renaissance and the baroque period — is one of the greatest achievements of world literature. We examine the origin and development of the picaresque novel, the pastoral novel, and short stories. Offered in a four-year cycle with SPAN-45400, SPAN-45500, and SPAN-45600. Prerequisites: SPAN-33800 or SPAN-33900. 3 credits. (IRR)

SPAN-46100 Medieval Spanish Literature  HU LA  
Study of representative texts of medieval Spain such as Poema de Mio Cid, Libro de Buen Amor, and La Celestina. Examines the coexistence of Christians, Jews,
and Muslims, and their contributions to the development of Western civilization. Prerequisites: SPAN-33700 or SPAN-33800. 3 credits. (S,E)

**SPAN-46300 Nineteenth-Century Spanish Literature**  
HU LA 3a, g  
Study of representative works of naturalism, realism, and romanticism. Typical authors include Pardo Bazán, Galdós, and Rosalía de Castro. Prerequisites: SPAN-33700 or SPAN-33800. 3 credits. (IRR)

**SPAN-46400 Contemporary Spanish Literature**  
HU LA 3a, g  
A study of contemporary Spanish fiction, poetry, drama, and essays connecting literature to history, culture, politics, and art forms of the period through linguistic and textual analysis. Readings include texts from the Generación del 98 to the present. Prerequisites: SPAN-33700 or SPAN-33800. 3 credits. (IRR)

**SPAN-47100 Latin American Fiction**  
HU LA 3a, g  
Traces of the development of a particularly Latin American voice through the readings of representative contemporary short stories and novels. Readings may include works by Martí, Azuela, Borges, Fuentes, Cortázar, García Márquez, Allende, and Ferré. Offered in a four-year cycle with SPAN-37100, SPAN-37200, and SPAN-37400. Prerequisites: SPAN-33700 or SPAN-33800. 3 credits. (IRR)

**SPAN-47200 Latin American Poetry and Drama**  
HU LA 3a, g  
Familiarizes the student with the writings of major Latin American poets from the colonial period to the present and with the works of contemporary Latin American dramatists. Offered in a four-year cycle with SPAN-37100, SPAN-37200, and SPAN-37400. Prerequisites: SPAN-33700 or SPAN-33800. 3 credits. (IRR)

**SPAN-47300 Modernismo**  
HU LA 3a, g  
Analysis of the poetical and prose work of modernismo (1888–1910), Latin America’s first authentic literary movement. Emphasis is given to the study of the new aesthetic and to the desire of Latin America’s writers to affirm a new cultural identity. Readings include selections from Martí, Casals, Darío, Silva, Lugones, and Rode. Offered in a four-year cycle with SPAN-37100, SPAN-37200, and SPAN-37400. Prerequisites: SPAN-33700 or SPAN-33800. 3 credits. (IRR)

**SPAN-47400 Topics in Latin American Literature**  
HU LA 3a, g  
Studies literary themes within Latin American literature (e.g., the conquest and the colonial experience; Latin America’s search for identity; the novel of the land; the dictator in Latin American fiction; revolution and fiction) and explores the relationship between Latin American fiction and reality. Offered in a four-year cycle with SPAN-37100, SPAN-37200, and SPAN-37300. May be repeated for a total of 6 credits when topics vary. Prerequisites: SPAN-33700 or SPAN-33800. 3 credits. (IRR)

**SPAN-49100 Seminar**  
HU LA 3a, g  
Study of selected topics in Spanish and/or Latin American literature and/or culture. Prerequisites: A minimum of two Spanish literature courses numbered SPAN-33700 or above. May be repeated for a total of 6 credits when topics vary. 3 credits. (F-S,Y)

**SPAN-49900 Honors Research**  
UL A 3a, g  
Individual research, study, and writing on particular topics, supervised by a member of the department and presented before a departmental committee. For students who meet the honors criteria as described in the undergraduate catalog, 3 credits. (IRR)

### Neuroscience

Jack Peck, *Professor and Coordinator*

For information about the neuroscience minor see its listing under “Individual and Interdisciplinary Studies Programs” on p. 204.

### Philosophy and Religion

**Bachelor of Arts**

Robert Klee, *Associate Professor and Chair*

The Department of Philosophy and Religion offers courses that develop critical and creative skills, as well as broad-ranging knowledge of fundamental beliefs and ideas. Such skills and knowledge are brought about by (1) training students in the analysis and clarification of concepts involved in all forms of thinking, whether legal, medical, political, scientific, or metaphysical; (2) systematically analyzing and evaluating topics of perennial human interest, such as religion, art, and morality; and (3) challenging students to articulate and develop their own ideas in the context of argumentation.

- The Introduction to Philosophy courses (PHIL-10100 and PHIL-10200) are highly recommended as stepping-stones to all other courses in philosophy.
- The Introduction to World Religions courses (RLST-10500 and RLST-10600) are highly recommended as stepping-stones to all other courses in religious studies.

### Requirements for Honors in Philosophy and Religion

Honors in the Department of Philosophy and Religion are offered for the purpose of encouraging, challenging, and recognizing majors and minors who undertake advanced academic work.

Majors and minors in the department may apply for honors by submitting an honors thesis. Written application to the honors program must be made to the department chair early in the student's senior year. A minimum of a 3.50 GPA in the major or minor is required.

An adviser and a second reader are appointed by the chair in consultation with the student and members of the faculty. The adviser supervises the writing of the thesis, which should be at least 30 pages long and must be completed by March 31. The departmental faculty decides whether the thesis has earned honors designation. Then, if the student wishes, the adviser arranges for an oral presentation of the accepted thesis to the departmental faculty, guests, and other philosophy and religion majors and minors.

For program details, see “Philosophy” and “Religious Studies.”

### Philosophy

Philosophy is the most conceptually fundamental of the liberal arts. It is that academic discipline that is most concerned with ideas. The student majoring in philosophy is trained to understand abstract ideas and their relations to one another and the world, to learn what have been among the most influential ideas in human history from ancient Greece to the present, and to enter into the dialectical process of rational disputation concerning those ideas.

### Requirements for the Major in Philosophy — B.A.

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<th>Course Code</th>
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<th>Hours</th>
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<tr>
<td>PHIL-20300</td>
<td>Introduction to Logic</td>
<td>3 credits</td>
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<tr>
<td>PHIL-32100</td>
<td>Symbolic Logic</td>
<td>3 credits</td>
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Because of the importance of logical analysis in philosophy, majors should try to complete the logic requirement by the end of the sophomore year.

### Electives

Philosophy majors are urged, but not required, to double-major or minor in another field from which facts of philosophical interest can be learned and to which the concepts and skills of philosophy can be applied.

Total, B.A. in philosophy: 120 credits

### Requirements for the Minor in Philosophy

The minor in philosophy offers students a way to concentrate their efforts in an area of study that is important to them but subordinate to their primary educational focus. Students who declare a minor in philosophy will be assigned an adviser from the department to help them select courses that meet their needs and interests.

Philosophy distributed over a minimum of six courses including:

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</table>

Because of the importance of logical analysis in philosophy, minors should try to complete the logic requirement by the end of sophomore year.
PHILOSOPHY COURSES

PHIL-10100  Introduction to Philosophy  HU LA 1
Introduction to philosophy that focuses on perennial philosophical problems, such as the relation of the mind to the body, the possibility of truth and objectivity, the purpose of human life, and the existence of God, utilizing classical, modern, or contemporary works. 3 credits. (F-S, Y)

PHIL-10200  Introduction to Philosophy: Greek Foundations  HU LA
Introduction to philosophy through the study of Greek thought as the foundation of the Western philosophical tradition. Covers the pre-Socratics, Plato, and Aristotle. 3 credits. (IRR)

PHIL-17500–PHIL-17600 Selected Topics in Philosophy  HU LA 3b
Topics to be determined according to teacher and student interest. May be repeated for credit when topics vary. 3 credits. (IRR)

PHIL-20100  Plato and Aristotle  HU LA
Study of selected texts and ideas of the founders of classical Western philosophy. Texts include selected dialogues of Plato and selections from Aristotle’s writings, including the Metaphysics and Nichomachean Ethics. Prerequisites: One course in humanities, social sciences, or science. 3 credits. (IRR)

PHIL-20300  Introduction to Logic  NS LA 2b
Covers the traditional logic of the syllogism and the logic of truth functions. Prerequisites: One course in the humanities, sciences, or mathematics. 3 credits. (F-S, Y)

PHIL-20600  The Problem of Evil  HU LA
Considers explanations for physical and moral evil — the religious view, that all evil serves a divine purpose; the existentialist view, that moral evil results from a lack of authentic purpose; and the sociological view, that some categories of good and evil reflect how social-political relations in a given society — with an emphasis on images of women as evil or potentially dangerous and destructive. Prerequisites: One course in the humanities or social sciences. 3 credits. (Y)

PHIL-21200  Introduction to Ethics  HU LA 1
Introduction to the problems and theories of normative thinking. Is there a right thing to do and how can we tell what it is? Contemporary moral issues, such as abortion, capital punishment, discrimination, war, aid to the needy, among others, require us to reflect carefully on fundamental topics in ethics, including rights, human dignity, responsibility, and the value of life. Readings selected from both classical and modern sources. Prerequisites: One course in humanities or social sciences. 3 credits. (Y)

PHIL-22000  Political Philosophy  HU LA 1
Introduction to the central questions of political philosophy. Topics include the disputed necessity of a political authority; various attempts to justify a political obligation to comply with the demands of the state; an examination of the merits and weaknesses of democracy as a legitimate form of governing; the proper scope of a right to liberty within a democratic society; and questions of distributive justice, including the justice of redistribution of wealth to rectify large social inequities. Prerequisites: One course in the humanities or social sciences; sophomore standing. 3 credits. (IRR)

PHIL-22300  Introduction to the Philosophy of Art  HU LA
Analysis of the problem of defining art, examination of criteria used to evaluate artworks, illustration of Langer’s principles of art, and consideration of avant-garde and Marxist views of art. Prerequisites: One course in the humanities or social sciences. 3 credits. (IRR)

PHIL-22500  Science and Pseudoscience  HU LA
Examination of selected issues concerning scientific methodology and the demarcation of genuine science from phony science (pseudoscience). Issues include the role of observational evidence in confirmation and disconfirmation of scientific hypotheses, properties a hypothesis must have to be empirical and therefore refutable, and the ways scientific explanation differs from nonscientific explanations. Students learn how to distinguish legitimate science from nonscientific belief systems that attempt to pass as science in the eyes of the public. Prerequisites: One course in philosophy; one course of BIOL-xxxxx, CHEM-xxxxx, PHYS-xxxxx, PSYC-xxxxx, or ANTH-xxxxx. 3 credits. (IRR)

PHIL-23000  Bioethics  HU LA 1
Bioethics focuses on moral questions about life, human and non-human. It explores the reasoning and moral principles at stake in medical decision, including, for example, abortion, euthanasia, medical experimentation, and distribution of health care. The moral dimensions of broader life issues, such as cloning and reproductive technology, are also relevant. Such practical topics in bioethics force us to reflect on fundamental ethical matters, including the nature of morality, rights, and the value of life. Prerequisites: Sophomore standing or above. 3 credits. (F-S)

PHIL-24000  Philosophy in Film  HU LA 1
Exploration of various philosophical issues conveyed in film. The course uses the narratives in film to illustrate various philosophical issues and offers philosophical reflection as an interpretive medium to understand films. Prerequisites: One course in the humanities or CNPH-10100; sophomore standing. 3 credits. (IRR)

PHIL-25000  Environmental Ethics  HU LA 1
A critical examination of various moral problems raised when considering environmental issues. Questions regarding the moral status of animals, future generations, and the environment as a whole are explored. Also taken up are the moral aspects of famine relief, population control, and resource use. These issues and others generate challenging and fundamental questions of moral philosophy: What is the basis of obligation? Do animals have rights? What does it mean to say something is intrinsically valuable? Prerequisites: Sophomore standing or above. 3 credits. (Y)

PHIL-26000  Difference and Community  HU LA
Individuals sometimes find themselves at odds with the larger community, as do minority groups whose ways of life are unfamiliar or alarming to those in the majority. How should we balance the often competing demands of individuals, groups, and the larger community? What sort of community, if any, is possible despite our individual and group differences? To answer questions such as these, this course will examine philosophical debates over individual liberty, toleration, and multiculturalism. Prerequisite: One course in the humanities or social sciences. 3 credits. (E,O)

PHIL-26500  Philosophical Problems in Law  HU LA
Examination and evaluation of basic practices and principles of law, focusing on such topics as the nature and extent of legal liability; “good Samaritan” laws and the legal enforcement of community moral standards; and the justification of punishment, including capital punishment. Examination of prominent legal cases and their underlying principles. Emphasis is placed on philosophical analysis and moral evaluation. Prerequisites: One course in philosophy. 3 credits. (Y)

PHIL-27500–PHIL-27600 Selected Topics in Philosophy  HU LA 3b
Topics to be determined according to teacher and student interest. This course may be repeated for credit when topics vary. Prerequisites: One course in the humanities or social sciences. 3 credits. (IRR)

PHIL-28300  Introduction to Buddhism  HU LA 1, h, g
Study of the life and teaching of Gautama Buddha, and of the development of Theravada Buddhism in Southeast Asia and Mahayana Buddhism in the Far East. Reading and discussion of the Buddhist scriptures and Zen writings. Prerequisites: One course in the humanities or social sciences. 3 credits. (E)

PHIL-30100  Seventeenth-Century Philosophy  HU LA
Study of early British empiricism and continental rationalism with an emphasis on the works of Descartes, Spinoza, and Leibniz. Prerequisites: One course in philosophy; two additional courses in the humanities and/or social sciences. 3 credits. (IRR)

PHIL-30200  Eighteenth-Century Philosophy  HU LA
Study of Locke, Berkeley, Hume, and Kant. Prerequisites: One course in philosophy; two additional courses in the humanities and/or social sciences. 3 credits. (IRR)

PHIL-31100  Philosophy of Religion  HU LA
Study and discussion of a broad range of issues in the philosophy of religion, such as religious epistemology, the ontological argument, the cosmological argument, the teleological argument, religion and science, and the problem of evil. Primary source readings. Prerequisites: PHIL-20900/RLST-20900; or two courses in philosophy, with at least one at level 2. 3 credits. (IRR)

PHIL-31300  Marxist Philosophy  HU LA
Analysis of the basic elements of Marx’s philosophy: dialectical materialism, economic determinism, ethical relativism, ideology and science, and the thesis of class struggle and exploitation. Examines how these concepts might be applied to contemporary capitalist development. Seminar. Prerequisites: One course in philosophy; two additional courses in the humanities and/or social sciences. 3 credits. (IRR)
PHIL-32100 Symbolic Logic NS LA
A continuation of PHIL-20300 Introduction to Logic. Logical techniques instrumental to the development of 20th-century philosophy: truth-functional analysis, quantification, the logic of relations, definite descriptions, modal logic, etc. Prerequisites: PHIL-20300 or MATH-26000. 3 credits. (IRR)

PHIL-32500 Philosophy of Public Policy HU LA
Critical analysis of the alternative ways that criteria of “efficiency, adequacy, and equity” are interpreted and applied to evaluation of some basic questions in public policy. These differences are linked to different economic models (neoclassical, institutional, and socialist). Applications include at least some of the following issues: comparable worth, for-profit health care, plant-closing legislation, cost-benefit analysis of risk, growth of part-time and “leased” non-unionized employees. It is recommended that students taking this course will also have taken ECON-12100 Principles of Macroeconomics, or comparable courses in politics, business, or administration. Prerequisites: One course in philosophy; two additional courses in humanities and/or social sciences. 3 credits. (IRR)

PHIL-32600 Seminar in Aesthetics HU LA
Examination of traditional and contemporary aesthetic concepts such as empathy, psychic distance, the beautiful and the sublime, and expressive form, with special attention to the nature of aesthetic responsiveness and judgment, and the kind of meaning to be found in art. Prerequisites: A background in philosophy or the arts, including three courses in the humanities or the fine arts. 3 credits. (IRR)

PHIL-33000 The Good Life HU LA
This course examines one of the oldest and most compelling questions of all time: what is a good life? We all want good lives and we all strive to achieve good lives, but despite the overriding importance of the question, we give little reflective thought to what a good life might be. Is there one particular form that a life must exemplify in order to be good, or are there many kinds of good lives? Is judging a life to be good sufficient for it to be good, or is this the sort of thing one can get wrong? The course will consider what great thinkers — classical, modern, and contemporary — have written on this issue. Prerequisites: One course in philosophy; two additional courses in humanities; sophomore standing or above. 3 credits. (IRR)

PHIL-34000 Global Ethics HU LA
The course surveys significant ethical challenges that are global in scope: Are there such things as universal human rights, or is morality ultimately relative to one’s particular culture? What, if any, duties do we have to the global environment? What is the difference between a just and unjust war, and between just and unjust ways of combating terrorism? Morally speaking, what can be said in defense of economic globalization and against it? Are global inequalities in wealth morally defensible? Prerequisites: One course in philosophy; two courses in the humanities and/or social sciences. 3 credits. (F, E)

PHIL-35000 Philosophy of Science HU LA
A comprehensive survey of issues in the philosophical foundations of science. Topics include the structure and function of scientific theories; the dispute over the existence or nonexistence of theoretical entities; reductionism and antireductionism; laws of nature and models of scientific explanation; Kuhn and historistic models of science; the realism/antirealism dispute over the philosophical implications of scientific theories. Prerequisites: PHIL-20300; one course from BIOL-xxxx, CHEM-xxxx, PHYS-xxxx, PSYC-xxxx, SOC-xxxx, or ANTH-xxxx. 3 credits. (IRR)

PHIL-35200 Moral Philosophy HU LA
Critical exploration of foundational issues in metaethics and normative ethical theory. Topics for consideration include moral relativism, moral realism, and morality and self-interest, along with utilitarian, deontological, natural law, and contractarian theories of ethics. Moral concepts such as rights, duties, and value will also be considered. Readings will be from both classical and contemporary sources. Prerequisites: PHIL-21200, PHIL-23000, or PHIL-25000, or two courses in philosophy and one additional course in the humanities. 3 credits. (IRR)

PHIL-35500 Metaphysics HU LA 1
Metaphysics is the philosophical investigation into the ultimate nature of reality. This course examines issues and answers in traditional and contemporary metaphysics. Topics include personal identity, causality, determinism, essence and accident, mind and matter, and the nature of God. Prerequisites: One level-2 course in philosophy; two additional courses in the humanities. 3 credits. (IRR)

PHIL-36000 Philosophy of Mind HU LA 1
The distinctive feature of human beings that traditionally has been held to separate us from the rest of the universe is our supposed possession of a special thing/capacity called “mind.” In this course we investigate what kind of thing (or non-thing) the mind is, what relation it has to bodily behavior, and how and why the mind has the extraordinary ability to represent the world truly or falsely. Topics include such questions as: Is the mind physical or non-physical? What is a mental state? What kinds of beings can possess minds? Prerequisites: One course in philosophy; one course in psychology (excluding PSYC-10000); one additional course in the humanities or social sciences. 3 credits. (IRR)

PHIL-37500, PHIL-37600 Selected Topics in Philosophy HU LA
Topics to be determined according to student and teacher interest, with primary focus on a problem or a person. May be repeated for credit when topics vary. Prerequisites: One course in philosophy; two additional courses in the humanities and/or social sciences. 1–4 credits per semester, to be arranged. (IRR)

PHIL-38100 Nineteenth-Century Philosophy HU LA
Major philosophical movements in the 19th century. Emphasis is placed on selections from the works of Hegel, Mill, Marx, Kierkegaard, and Nietzsche. Prerequisites: One course in philosophy; two additional courses in the humanities and/or social sciences. 3 credits. (IRR)

PHIL-38200 Twentieth-Century Philosophy HU LA
Contemporary thought, including pragmatism, logical positivism, phenomenology, existentialism, Marxism, and analytic philosophy. Prerequisites: One course in philosophy; two additional courses in the humanities and/or social sciences. 3 credits. (IRR)

PHIL-38600 Philosophy in Literature HU LA
Exercise in conceptualizing philosophical themes as found in a group of selected novels, novels, and plays by such authors as Dostoevsky, Tolstoy, Chekhov, Kafka, Gide, Beckett, Camus, and Sartre. Seminar. Prerequisites: One course in philosophy; two additional courses in the humanities and/or social sciences; permission of instructor. 3 credits. (IRR)

PHIL-39100, PHIL-39200 or PHIL-49100, PHIL-49200 Independent Study in Philosophy U LA
Study or research project of the student’s own devising. Minimal consultation with professor; final projects evaluated by professor. Offered on demand only. May be repeated for credit for different projects. Prerequisites: Permission of instructor; one course in philosophy; two additional courses in the humanities and/or social sciences. 1–4 credits, depending on instructor and student interest. (IRR)

PHIL-39300, PHIL-39400 or PHIL-49300, PHIL-49400 Tutorial in Philosophy U LA
Work by student and teacher on a problem or project of interest to both. Prerequisites: One course in philosophy; two additional courses in the humanities and/or social sciences; permission of instructor. May be repeated for credit. 1–4 credits, depending on instructor and student interest. (IRR)

PHIL-49500, PHIL-49600 Philosophy Seminar U LA
Small group study of a topic not otherwise offered in the curriculum or not offered at the same level. May be repeated for credit. Prerequisites: One course in philosophy; two additional courses in the humanities and/or social sciences; permission of instructor. 1–4 credits, depending on instructor and student interest. (IRR)

RELIGIOUS STUDIES

Studies in religion provide excellent training in understanding and appreciating others, and thereby oneself, through an examination and evaluation of the forms of expression that religious beliefs and values have taken in diverse societies and cultures. Attention is given to religious ideals, to how they work out in fact, and to the dynamic tensions that result. Study in this field also teaches interdisciplinary analysis, because religion is a sufficiently complex phenomenon that an adequate assessment of it must involve phenomenological, logical, empirical, and humanist methodologies. In brief, the student of religion is trained to develop both appreciative and critical skills, in addition to a wide understanding of the way people are, in fact and in aspiration. Such skills and knowledge will be useful to those working in multicultural contexts, whether in business, government, or travel, or working in some related aspect of the social sciences or humanities, such as anthropology or literature.
Religious studies offers an appreciative, yet critical, analysis of major world religions. Each of the great religious traditions is a response to the spiritual issues that have inspired and challenged cultures worldwide — the question of the source of existence, the ultimate purpose of life, the meaning of suffering, evil, death, and the nature and paths of spiritual experience. Exploring myths, symbols, historical events, communal rituals, personal experiences, and classic texts, world religions continually reinterpet and apply spiritual wisdom to new cultural problems. Religious studies develops the intellectual tools for recognizing and thinking critically about these themes, whether in a Native American, ancient Near Eastern, biblical, Hindu, Buddhist, or contemporary American context. Areas of concentration can be in world religions and scriptures, comparing Eastern and Western traditions; religion and society, stressing religious issues and movements in the United States; religion and spirituality, looking at personal spiritual experiences, discipline, and growth; and religion and culture, examining religious expression in myth, ritual, and art.

Religious studies offers both an academic path for the spiritual seeker and an excellent basis for careers in the human service professions, such as counseling, social work, or teaching, and in business and professions involving work with people from diverse cultures.

Requirements for the Joint Major in Philosophy and Religion — B.A.
The joint major in philosophy and religion gives students a special opportunity to explore in depth the philosophical aspects of religion and the religious aspects of philosophy. Students in this major acquire a grounding in philosophy that enables them to conduct philosophical analyses of religious claims, and a grounding in religious studies that makes them sensitive to the religious dimensions of philosophical systems and activities. This is an excellent major for students who have a strong personal interest in the preceding topics, or who would like to prepare themselves for graduate study or professional responsibility in the field of religion.

A total of 36 credits in philosophy and religion, including
- At least 12 credits in philosophy (at least 6 credits of which must be at level 3 or 4), and
- At least 12 credits in religion (at least 6 credits of which must be at the level 3 or 4).

Specific courses that must be taken and are counted toward accumulation of the 36-credit requirement are

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>PHIL-31100/RLST-31100</td>
<td>Philosophy of Religion</td>
</tr>
<tr>
<td>PHIL-15100</td>
<td>Reasoning or Introduction to Logic</td>
</tr>
<tr>
<td>PHIL-20300</td>
<td>Electives</td>
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</table>

Total, B.A. in philosophy-religion: 120

The following courses may be used to satisfy the course requirement in the philosophy-religion major for level 3 religion courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>ENGL-32400</td>
<td>Literature of the Bible (see p. 146 for description)</td>
</tr>
<tr>
<td>HIST-30100</td>
<td>The Renaissance and Reformation (see p. 151 for description)</td>
</tr>
</tbody>
</table>

Minor in Religious Studies

Students who minor in religious studies will be assigned an adviser from the department to help them select courses that reflect their interests. A student can construct a minor that concentrates on a survey of world religions; a study of mysticism and religious consciousness; an empirical examination of religious beliefs, practices, and change; or a philosophical examination of religious beliefs and practices.

Requirements for the minor — At least 18 credits in religion distributed over a minimum of six courses (at least two taken at level 3 or 4)

Total required for minor: 18

RELIGIOUS STUDIES COURSES

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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>RLST-10300</td>
<td>Hebrew Scriptures</td>
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This course treats the books of the Bible critically as literature, as religious and moral texts, and as a source of sociological knowledge. This course surveys the biblical literature, acquaints the students with critical methods for the study of the Bible, situates the Bible within the literature and culture of the ancient Near East, and discusses the religion of ancient Israel. Deals with questions of history and archaeology, and with questions of meaning — what the biblical text meant to its ancient readers, and what meanings it has today. Cross-listed with JWST-10300. Students may not receive credit for both RLST-10300 and JWST-10300. 3 credits. (FY)

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<tr>
<th>Course</th>
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<tr>
<td>RLST-10400</td>
<td>Introduction to the New Testament</td>
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A survey of the life and teaching of Jesus, and major themes in the Pauline Epistles and the Book of Revelation. 3 credits. (IRR)

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<th>Course</th>
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<tr>
<td>RLST-10500</td>
<td>Introduction to World Religions: Indigenous and Eastern</td>
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</table>

Examination of methods in the study of religion and the meaning of ritual, myth, and symbols as applied to Native American and other primal religions, Hinduism, Buddhism, Taoism, Confucianism, and Shintoism. Ideas of divinity, methods of liberation, life after death, attitudes toward nature, ways of living in society, and world views are studied in each tradition and then compared. 3 credits. (FY)

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<th>Course</th>
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<tr>
<td>RLST-10600</td>
<td>Introduction to World Religions: Western and Modern</td>
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</table>

Study of the historical and theological dimensions of the three major Western religious traditions. Ideas of God and prophecy, angels and sages, messiahs, rabbis, and Sufis are examined in a comparative approach to Jewish, Christian, and Muslim religions. Various methodological approaches to the study of religion are surveyed and applied to our interpretation of the traditions. Also explored are the primal worlds of Jewish, Christian, and Muslim storytelling, from the foundational scriptures (Bible and Koran) through later texts exemplifying the fundamental values of each tradition. Also considered is the encounter between these traditions and the critiques of secular modernity (Fried, Marx, Nietzsche), raising the question of the contemporary meaning of religion in the West. 3 credits. (SY)

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<th>Course</th>
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<tbody>
<tr>
<td>RLST-17500, RLST-17600</td>
<td>Selected Topics in Religion</td>
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Topics to be determined according to teacher and student interest. May be repeated for credit when topics vary. 3 credits. (IRR)

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<tr>
<th>Course</th>
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<tr>
<td>RLST-20100</td>
<td>Religion and Culture</td>
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Study of the mutual relations between religion and culture. The course explores the religious dimension of art, music, and literature, and considers the way religious symbols influence cultural movements, contrasting religious symbols as the basis for cultural values with religious symbols as a countercultural critique of majority norms. Students study both Western and non-Western examples, such as African American spirituals, Handel's Messiah, European cathedrals, and Buddhist meditation practices. Prerequisites: Sophomore standing or above, or one course in religious studies. 3 credits. (O)

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<th>Course</th>
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<tr>
<td>RLST-20200</td>
<td>Religion and Society</td>
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Studies the interrelationships between religion and society. Major themes include examination of how religious influence social and political systems, how economic and historical factors affect religious dynamics, and how social scientists study religion today. It is a multicultural study of diverse societies. Prerequisites: Sophomore standing or above, or one course in religion. 3 credits. (E)

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<th>Course</th>
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<tr>
<td>RLST-20300</td>
<td>Judaism</td>
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An introduction to Judaism, with a focus on theology, ethics, and ritual practice. Readings include selected texts from the biblical, rabbinic, medieval, and modern periods. Theological and ethical issues include God, good and evil, covenant, death and afterlife, justice, and social responsibility. The course examines how these Jewish understandings are lived out through practices associated with birth and death; marriage and commitment; sexuality; and the life of study, prayer, and devotion. Cross-listed with JWST-20300. Students may not receive credit for both RLST-20300 and JWST-20300. Prerequisites: One course in the humanities or social sciences. 3 credits. (SY)

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<tr>
<td>RLST-20400</td>
<td>Christianity</td>
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A survey of the Gospel accounts of Jesus and the historical development of Christianity, including major theological themes and issues. Prerequisites: Sophomore standing or above. 3 credits. (O)

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<th>Course</th>
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<tr>
<td>RLST-20600</td>
<td>The Problem of Evil</td>
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See PHIL-20600. (Y)

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<tr>
<th>Course</th>
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<tr>
<td>RLST-20700</td>
<td>Death and Immortality</td>
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</table>

A look at various experiences surrounding death and their symbolic significance. Seen as an integral aspect of life rather than as an unwelcome end, death and grieving become initiations into a deeper sense of life. Includes a study of symbolism hidden in myths of afterlife, and how we can grapple with the threat of nuclear war. Prerequisites: One course in the humanities or social sciences. 3 credits. (Y)
RLST-22100 Religion and Depth Psychology  HU LA
A study of Freudian, Jungian, humanistic, and transpersonal psychologies with respect to issues in religion. Topics for study include dream theory, the individualization process, psychological types, self-actualization, peak and plateau experiences, death, psychological aspects of worship, values, the psychology of meditation, and levels of consciousness. Students are encouraged to keep a dream notebook and must submit a term paper based on it or some suitable research topic. Prerequisites: Sophomore standing, 3 credits. (O)

RLST-25200 Introduction to Mysticism  HU LA
Drawing from the mysticism of world religions, focuses on the mystical process (i.e., what happens to the mystic on his or her journey to “deepest reality”) and the ways to reach this goal. Topics include stages of the mystical path; voices and visions; love or bridal mysticism; meditation and contemplation; and mysticism in the world of action, science, and the occult. Prerequisites: One course in the humanities or social sciences, 3 credits. (E)

RLST-25500 Religions in America  HU LA
A sociohistorical survey of the varieties of religions in North America, including Christianity, Judaism, Islam, new religious movements, and religions of various ethnic groups, such as Native American religions and African American religions. Emphasizes the role religion plays in the political and ethical spheres of American life. Prerequisites: RLST-10600, or sophomore standing or above. 3 credits. (IRR)

RLST-27500, RLST-27600 Selected Topics in Religion  HU LA
Topics to be determined according to teacher and student interest. May be repeated for credit when topics vary. Prerequisites: One course in the humanities or social sciences, 3 credits. (IRR)

RLST-28100 Hinduism  HU LA
A historical survey of the development of Hinduism from its origin in the Vedic religion to the modern Vedantism. Reading and discussion on the Upanishads, the Bhagavad-Gita, and the Yoga Sutra. Prerequisites: One course in the humanities or social sciences, 3 credits. (O)

RLST-28300 Introduction to Buddhism  HU LA 1, h, g
See PHIL-29300. (E)

RLST-30500 Comparative Study of Religions  HU LA
Examination of the major issues in various religious traditions and comparison of their similarities and differences through the method of typological and phenomenological analysis. Certain common themes among these religions, such as the concept of god(s), the nature of man, the problem of evil, ways of salvation, patterns of rituals, and types of religious organization are discussed. Prerequisites: RLST-10500; RLST-10600; one course in religion at level 2 or above. Recommended courses are RLST-24200, RLST-26100, or RLST-26300, 3 credits. (E)

RLST-31100 Philosophy of Religion  HU LA
See PHIL-31100. (Y)

RLST-31700 Myth and Metaphor  HU LA
A study of myth as primary symbolism and the ground of conceptual meaning in religion; analysis of major archetypal patterns, the hero's quest, and personal mythology. Prerequisites: RLST-10500 or RLST-10600; RLST-20100, RLST-22100, or RLST-23200, 3 credits. (O)

RLST-32000 Anthropology of Religion  SS LA
See anthropology ANTH-32000. (Y)

RLST-32300 Gender and Sexuality in Judaism  HU LA
Exploration of what it means to be a Jewish man or woman. The course addresses how Jewish gender roles have changed throughout history, as well as how contemporary Jews deal with changes in women's roles and demands for gender equality. Topics covered include what is “gender” and how to study it; traditional roles of men and women in Judaism; the gendered Jewish body; family and sexuality; homosexuality; Jewish feminism; the gender of God; and changing women's religious roles. Cross-listed with JWST-32300. Students may not receive credit for both RLST-32300 and JWST-32300. Prerequisites: Three courses in the humanities or social sciences, 3 credits. (Y)

RLST-33300 Jewish Mysticism  HU LA
This course traces the history of Jewish mysticism. After a brief overview of early Jewish mysticism from the biblical and rabbinic periods, students will concentrate on the medieval flowering of Kabbalah, and its further development in the 16th-century Kabbalah of Safed and Israel and 18th-century Eastern European Hasidism. The emphasis will be on understanding both the theoretical and experiential aspects of Jewish mysticism, and on examining some of the key texts of Jewish mysticism. Cross-listed with JWST-33300. Students may not receive credit for both RLST-33300 and JWST-33300. Prerequisites: Three courses in the humanities or social sciences, 3 credits. (Y)

RLST-35300 Twentieth-Century Mysticism  HU LA
Study of the major trends in 20th-century mysticism through the writings of key mystics. Topics include earth and esoteric spiritualistics, the influence of Eastern spiritualistics on the West, and current Jewish, Christian, and Sufi ideas. The writings of Teilhard de Chardin, Thomas Merton, and Yogananda, as well as works from the Native American and Sufi traditions are studied. Prerequisites: RLST-25200, 3 credits. (E)

RLST-37500, RLST-37600 Selected Topics in Religion  HU LA
Topics to be determined according to teacher and student interest. May be repeated for credit for selected topics on different subjects. Prerequisites: One course in religion; two additional courses in the humanities and/or social sciences, 3 credits. (IRR)

RLST-37700 Women and Religion  HU LA
A study of the emerging issues regarding women and religion, including the psychology of women's spiritual journey, the importance of the feminine or yin dimension of reality, the role of women in ancient and traditional religions, and new forms of feminine spirituality. Prerequisites: Three courses in religion and/or philosophy, or those courses in psychology, sociology, anthropology, and politics that address women's issues, 3 credits. (O)

RLST-39100, RLST-39200 or RLST-49100, RLST-49200 Independent Study in Religion  U LA
Study or research project(s) of the student's own devising. Minimal consultation with professor; final project(s) evaluated by professor. Offered on demand only. May be repeated for credit for different projects. Prerequisites: One course in religion; two courses in the humanities and/or social sciences; permission of instructor. 1–4 credits, depending on instructor and student interest. (IRR)

RLST-39300–RLST-39400 or RLST-49300–RLST-49400 Tutorial in Religion  U LA
Work by student and teacher together on a problem or project of interest to both. May be repeated for credit. Prerequisites: Permission of instructor; one course in religion; two additional courses in the humanities and/or social sciences, 1–4 credits, depending on instructor and student interest. (IRR)

RLST-49500–RLST-49600 Seminar in Religion  HU LA
Small group study of a topic not offered otherwise in the curriculum or not offered at the same level. May be repeated for credit. Prerequisites: One course in religion; two courses in the humanities and/or social sciences; permission of instructor. 3 credits. (IRR)

PHYSICS

Bachelor of Arts

Bruce Thompson, Assistant Professor and Chair

The Department of Physics offers a range of programs and courses designed to prepare students for a variety of career opportunities. With the supporting background of mathematics, computer science, chemistry, and biology, the curriculum provides the educational foundation necessary for continued study at the graduate level, technical employment, or certification in secondary school teaching of physics.

The department has programs leading to the bachelor's degree in physics and mathematics-physics. It also offers a physics-engineering 3-2 program in conjunction with Cornell University, Clarkson University, Rensselaer Polytechnic Institute, and the Thomas J. Watson School of Engineering, Applied Science, and Technology of the State University of New York at Binghamton.

The program leads to two bachelor's degrees, one from Ithaca College and the other from the appropriate school of engineering.

Requirements for Honors in Physics

A senior physics major may elect to compete for departmental honors provided his or her cumulative average in level 2 and above physics courses is at least 3.50. The two-part examination is given the first two Saturdays following the winter break. The first Saturday consists of two comprehensive written exams: from 9:00 a.m. to noon, covering the principles-of-physics sequence and junior-level electricity and magnetism, and from 1:30 to 4:30 p.m., covering...
material at the junior/senior level selected from mechanics, thermodynamics, and mathematics. In addition, material from any course in the student’s concentration may be included in the afternoon examination. Provided the candidate performs satisfactorily on these written exams, he or she is given a comprehensive oral exam on the following Saturday by a faculty committee of at least three members. The committee makes the final decision on whether to grant honors based on the student’s academic record and performance on the written and oral exams.

Requirements for the Major in Physics — B.A.
The major in physics permits students either to concentrate heavily on physics in preparation for graduate work or industrial careers, or to combine physics with other professional interests such as secondary education, premedical training, astronomy, or electronics.

Credits in the major
Core requirements
Physics, including PHYS-11700, PHYS-11800, PHYS-12000, PHYS-21700, PHYS-21800, PHYS-22500 20
Concentration requirements
1. Eighteen additional credits.
2. Nine of the 18 credits must be at level 3 or 4, with at least 6 of the 9 being in physics.
3. Three of the 18 credits must be for a physics laboratory other than PHYS-17600 or PHYS-17700; laboratory credits may be used to satisfy concentration requirement 2.

Total, concentration requirements 18
The concentration must be planned with the adviser and approved by the department before the end of the student’s fourth semester.

Credits outside the major
Mathematics and computer science, including MATH-11100, MATH-11200, MATH-21100, and COMP-17100. (See mathematics department policies on placement exams, p. 153.)
Electives (maximum) 66
Total, B.A. in physics 120

Typical concentrations
Professional
Physics, including PHYS-30100, PHYS-30500, PHYS-31100, PHYS-32000, PHYS-36000 or PHYS-45100, PHYS-32600 or PHYS-35100 18

Premedical
Physics, including PHYS-30500, PHYS-32000, PHYS-36000 9
Chemistry and biology, including BIOL-12100, BIOL-12200, CHEM-12100, CHEM-12200, CHEM-12400, CHEM-22100, CHEM-2200 25

Electronics
Physics, including PHYS-32000, PHYS-32600, PHYS-35100 9
Computer science, including COMP-17400, COMP-21000, COMP-31500 12

Requirements for the Major in Mathematics-Physics — B.A.
See p. 154.

Requirements for Physics — B.A. with Teaching Option
Credits in the major
Physics, including PHYS-11700, PHYS-11800, PHYS-12000, PHYS-21700, PHYS-21800, PHYS-22500 20
Concentration requirements
1. Eighteen additional credits.
2. Nine of the 18 credits must be at level 3 or 4, with at least 6 of the 9 credits in physics.
3. Three of the 18 credits must be for a physics laboratory other than PHYS-17600 or PHYS-17700; laboratory credits may be used to satisfy concentration requirement 2.

The concentration must be planned with the adviser and approved by the department before the end of the student’s fourth semester.

Total, concentration requirements 18
Total, credits in the major 38

Credits outside the major
Mathematics and computer science, including MATH-11100, MATH-11200, MATH-21100, and COMP-17100. (See mathematics and computer science department policies on placement examinations, p. 153.)

Core education requirements
EDUC-21910 Early Field Experience: Theory and Practice 3
COMP-20100 Technology for the Middle/Secondary School Teacher 2
EDUC-10100 Literacy Education for the Middle/Secondary School Teacher 2
SLPA-23900 Educating Children with Special Needs 2
SLPA-22900 Second Language Acquisition: Its Nature and Meaning for Educators 2
PSYC-21010 Educational Psychology 3
EDUC-34000 Social and Cultural Foundations of Education 3
EDUC-30810 Pedagogy and Practice across the Disciplines 3
EDUC-31010 Pedagogy and Practice for the Science Teacher 3
EDUC-41210 Seminar in Reflective Practice 3
EDUC-49810 Professional Semester in Education 12
EDUC-11100 Drug and Alcohol Abuse: Identification and Prevention 0
EDUC-11000 Child Abuse Identification and Prevention 0
Total, core education requirements 38

Additional requirements
1. All teaching-option students must successfully complete a year of college-level study in a language other than English. Students may test out of this requirement by taking the language placement test and placing at level 2 or above.
2. All teaching-option students must successfully complete writing course WRTG-10600 or above.
3. All teaching-option students must successfully complete the second-year review and maintain a minimum 2.75 GPA in their subject. If a student receives an unsuccessful review or a review with stipulations, the student must participate in and successfully pass a second review the following year. Unsuccessful reviews and reviews with stipulations will be accompanied by a written statement outlining what must be done before the second review is completed.
4. Students must earn a grade of B or better in EDUC-30810 and EDUC-31010 to qualify for student teaching. A grade of B- does not qualify.
5. EDUC-49810 Professional Semester in Education and EDUC-41210 Seminar in Reflective Practice constitute a full course load during the student-teaching semester. No additional courses may be taken.
6. All candidates for initial certification must successfully complete all three sections of the New York State Teacher Certification Examinations: the liberal arts and sciences test, the assessment of teaching skills-written, and the content area exam.
7. The student’s department chair and the coordinator of teacher education must approve any exceptions to the above requirements.

Electives
(Maximum) to complete H&S general education requirement and the 120 credits necessary for graduation 28
Total, B.A. in physics with teaching option 120

Minor in Physics
The physics minor program provides an option for students who may not want to be physics majors, but who wish to enroll in physics courses, be guided in course selection, and receive recognition for their studies.
Intended as the second semester of college physics for students majoring in science and mathematics. Topics include static electric fields and Coulomb's law, Gauss's law, electric potential, capacitors, Ohm's law, the magnetic field, and Ampere's law, induction and Faraday's law, and elementary circuit theory. Emphasis is placed on mathematical analysis. Prerequisites: PHYS-11700; MATH-11200 (may be taken concurrently). 3 credits. (S,Y)

**PHYS-11900 Problem Solving in Physics**

Introduction for beginning physics students to problem-solving strategies in physics, physics laboratory work, and the use of computers in physics. It consists of short lectures, problem assignments, and laboratory exercises based on examples from PHYS-11700 Principles of Physics I: Mechanics and applications of physics in astronomy, Students work in pairs solving problems and presenting their solutions to the rest of the class. Corequisites: PHYS-11700. 2 credits. (E,Y)

**PHYS-12000 Freshman Laboratory**

A laboratory course designed to develop experimental skills. Focus is on the use of modern electronics and computers to measure and analyze data. Students construct analog and digital circuits, and then use them to carry out experiments illustrating physical principles from mechanics and electricity and magnetism. Corequisites: PHYS-11000. 2 credits. (S,Y)

**PHYS-14000 Why the Sky Is Blue and All That**

An attempt to alter the usual approach to physics for non-science majors by giving the student an appreciation of the methodology of physics and how physicists view the universe in which we live. Some topics to be discussed are the extent of the physical universe in space and time, motion and forces, the conservation laws of nature, the nature of light (including why the sky is blue), and the ideas of modern physics. The approach is descriptive and nonmathematical. 3 credits. (Y)

**PHYS-14300 Power: Energy Options for a Global Society**

Survey of energy. Topics include energy technologies and energy resources (fossil fuels, nuclear, solar, wind, geothermal, biomass). Students are introduced to electricity, heat production and transfer, heat engines, energy efficiency, and sustainable energy systems. Energy use sectors such as residential, commercial, and transportation are examined. The course begins with a look at energy use in the home and gradually expands to complex subjects such as the electrical grid, national energy policy, deregulation, and international fusion research. The emphasis is on energy literacy, and the goal is to provide students with the basic technical principles necessary to develop energy projects of their own and to evaluate their costs and benefits. 3 credits. (E,S)

**PHYS-15000 The Physics of Sound**

Physical basis of sound, with an emphasis placed on musical instruments, the human voice, and sound recording and reproduction. Physics concepts are introduced and developed as needed to understand these areas. Open to all students. Prerequisites: High school algebra. 3 credits. (Y)

**PHYS-17100 Earth: Evolution of a Habitable World**

Formation and evolution of planet Earth from the astronomer's perspective: creation of elements, the first rocks, development of oceans, the first atmosphere, formation of the moon, records of climate history, and how life on Earth fits into the context of life in the universe. We will examine Venus and Mars as possible analogs for Earth's evolution (past and future). Other topics include the influence of the sun on Earth's climate, the greenhouse effect, the geologic record of the development of continents, and the asteroid and comet impact hazard. Emphasis is placed on our sources of knowledge, the errors of our measurements, and the attendant model uncertainties in predicting Earth's future. Students may not receive credit for both PHYS-17100 and PHYS-17200. Prerequisites: Math placement in group 2, 2, or 1. 3 credits. (S,Y)

**PHYS-17200 Earth: Evolution of a Habitable World with Lab**

Formation and evolution of planet Earth from the astronomer's perspective: creation of elements, the first rocks, development of oceans, the first atmosphere, formation of the moon, records of climate history, and how life on Earth fits into the context of life in the universe. We will examine Venus and Mars as possible analogs for Earth's evolution (past and future). Other topics include the influence of the sun on Earth's climate, the greenhouse effect, the geologic record of the development of continents, and the asteroid and comet impact hazard. Emphasis is placed on our sources of knowledge, the errors of our measurements, and the attendant model uncertainties in predicting Earth's future. Students enrolled in this course attend the lecture of PHYS-17100 but

**PHYS-11000 Principles of Physics II: Electricity and Magnetism**

Intended as the second semester of college physics for students majoring in science and mathematics. Topics include static electric fields and Coulomb's law, Gauss's law, electric potential, capacitors, Ohm's law, the magnetic field, and Ampere's law, induction and Faraday's law, and elementary circuit theory. Emphasis is placed on mathematical analysis. Prerequisites: PHYS-11700; MATH-11200 (may be taken concurrently). 3 credits. (S,Y)

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**PHYS-17200 Earth: Evolution of a Habitable World with Lab**

Formation and evolution of planet Earth from the astronomer's perspective: creation of elements, the first rocks, development of oceans, the first atmosphere, formation of the moon, records of climate history, and how life on Earth fits into the context of life in the universe. We will examine Venus and Mars as possible analogs for Earth's evolution (past and future). Other topics include the influence of the sun on Earth's climate, the greenhouse effect, the geologic record of the development of continents, and the asteroid and comet impact hazard. Emphasis is placed on our sources of knowledge, the errors of our measurements, and the attendant model uncertainties in predicting Earth's future. Students enrolled in this course attend the lecture of PHYS-17100 but
also meet for an additional weekly lab. Students may not receive credit for both PHYS-17100 and PHYS-17200. Prerequisites: Math placement in group 3, 2, or 1. 4 credits. (S,Y)

**PHYS-17400 Solar System Astronomy** NS LA 2a
Survey of the solar system from the earliest conceptions of motions in the sky to modern findings of space exploration in the solar system. Emphasis is placed on physical processes and dynamics of the moon, earth, planets, comets, meteoric matter, and asteroids. Astronomical instruments and measurements. 3 credits. (Y)

**PHYS-17500 Stars, Galaxies, and the Universe** NS LA 2a
Survey of the universe lying beyond the solar system; introduction to characteristics and motions of stars; stellar structure and evolution; interstellar matter; star clusters, the sun, galaxies; introduction to cosmology; the question of life in the universe; astronomical instruments and measurements. 3 credits. (Y)

**PHYS-17600 Solar System Astronomy with Lab** NS LA 2a
Students enrolled in this course attend the lecture of PHYS-17400 Solar System Astronomy but also meet for an additional weekly evening lab. Introduction to observational procedures in solar system astronomy. Activities include both outdoor observing sessions and indoor lab exercises. Outdoor sessions emphasize learning the night sky and hands-on use of telescopes. Indoor laboratories emphasize data analysis through the use of celestial globes, spectroscopes, computer simulation, and image processing. This course is not open to students with prior credit in PHYS-17400. 4 credits. (Y)

**PHYS-17700 Stars, Galaxies, and the Universe with Lab** NS LA 2a
Students enrolled in this course attend the lecture of PHYS-17500 Stars, Galaxies, and the Universe but also meet for an additional weekly evening lab. Introduction to observational procedures in stellar and galactic astronomy. Activities include both outdoor observing sessions and indoor lab exercises. Outdoor sessions emphasize learning the night sky and hands-on use of telescopes. Indoor laboratories emphasize data analysis through the use of celestial globes, spectroscopes, computer simulation, and image processing. This course is not open to students with prior credit in PHYS-17500. 4 credits. (Y)

**PHYS-21700 Principles of Physics III: Heat and Optics** NS LA
The third semester of the introductory sequence for science majors. Topics include the first and second laws of thermodynamics, Maxwell distribution, entropy, geometrical optics, interference, diffraction (single and double slits and gratings), optical spectra, and polarization. Prerequisites: PHYS-11800; MATH-11200. 4 credits. (F,Y)

**PHYS-21800 Principles of Physics IV: Modern Physics** NS LA
A course aimed at giving students a working knowledge of the concepts of modern physics. Topics include the theory of relativity, interaction of photons with matter, quantum theory, the hydrogen atom, statistical and solid state physics, nuclear physics, and elementary particles. Prerequisites: PHYS-21700. 4 credits. (S,Y)

**PHYS-22500 DC and AC Circuits** NS LA
Experiments on DC and AC circuits with emphasis placed both on test instruments and accurate measurements, and on mathematical analysis and theory (including the use of complex numbers for AC theory). Circuits include steady state and transient RC and RL, and series and parallel RLC. Prerequisites: PHYS-11800; PHYS-12000. 3 credits. (F,Y)

**PHYS-29600 Independent Study** U LA
One-semester course in which a student may pursue a topic of interest in physics. Offered on demand only. Prerequisites: Sophomore standing or above; permission of instructor. 0.5–3 credits; 6-credit limit.

**PHYS-29900 Independent Research — Introductory** U LA
Original research participation with faculty member in a specialized field. Prerequisites: Sophomore standing or above; permission of instructor. 0.5–3 credits; 6-credit limit. (F,S,Y)

**PHYS-30100 Mathematical Methods of Physics** NS LA
Algebra of complex numbers and complex functions, vector calculus, ordinary differential equations, Fourier and Legendre series, and partial differential equations with applications to selected physics topics. There will be several exercises using computer analysis. It is highly recommended that MATH-21200 Calculus IV be taken prior to this course. Prerequisites: COMP-17100; MATH-21100; PHYS-21800. 3 credits. (F,Y)

**PHYS-30500 Electromagnetism** NS LA
An intermediate course in electricity and magnetism that builds on the foundation received in PHYS-11800. Topics include electric and magnetic fields, Gauss’s law, electric potential, circuits, Ampere’s law, Faraday’s law, and Maxwell’s equations. There will be several exercises using computer analysis. Prerequisites: COMP-17100; PHYS-21700. 3 credits. (F,Y)

**PHYS-31100 Analytical Mechanics** NS LA
Intermediate mechanics, including statics and dynamics of particles and rigid bodies, central forces, planetary motion, Lagrange’s equation, and Hamilton’s equation. Extensive computer analysis. Prerequisites: PHYS-11800; PHYS-30100. 3 credits. (S,Y)

**PHYS-32000 Thermodynamics** NS LA
Topics include laws of thermodynamics with applications, thermodynamic functions and potentials, kinetic theory, real and idealized systems, and intermolecular processes. Prerequisites: PHYS-21700. 3 credits. (S,O)

**PHYS-32600 Analog Electronics** NS LA
A laboratory course on electronics covering the origination, amplification, processing, and digital conversion of analog signals. Experiments involve bipolar transistors, operational amplifiers, active and passive filters, oscillators, and analog-to-digital and digital-to-analog converters. Emphasis is placed on the basic theory underlying the circuits and devices and on general lab techniques. Prerequisites: PHYS-22500. 3 credits. (S,E)

**PHYS-35100 Digital Electronics** NS LA
A laboratory course on digital electronics covering combinational and sequential logic, microprocessors, and interfacing. Experiments involve basic logic gates, flip-flops, counters, memories, multiplexers, demultiplexers, microprocessors, and interfacing counter/timers. Prerequisites: PHYS-22500. 3 credits. (S,E)

**PHYS-36000 Advanced Laboratory I** NS LA
An advanced laboratory course in which students are expected to conduct four or five investigations in areas such as mechanics, optics, thermodynamics, and electricity and magnetism. Emphasis is placed on the development of good laboratory techniques and data-taking procedures. Students work independently and are expected to become familiar with modern developments in instrumentation, formal report writing, and the statistical basis for data analysis. Prerequisites: PHYS-21800; PHYS-22500. 3 credits. (S,E)

**PHYS-39900 Independent Research — Intermediate** U LA
Prerequisites: Two credits of PHYS-29900; permission of instructor. 0.5–3 credits. (F-S,Y)

**PHYS-42100 Quantum Mechanics** NS LA
Emphasis is placed on understanding the nature of quantum theory and how it differs from classical ideas. Topics include the uncertainty principle, the Schrödinger equation and solutions to various potentials, perturbation theory, and the one-electron atom. Prerequisites: PHYS-31100; permission of instructor. 3 credits. (IRR)

**PHYS-45100 Advanced Laboratory II** NS LA
Students are expected to gain a thorough understanding of several major experiments carried out during the term, rather than to complete a large number of small projects. Emphasis is placed on independent work. Available experiments include nuclear techniques, gamma ray spectroscopy, and the Mossbauer effect. Prerequisites: PHYS-21800; PHYS-22500. 3 credits. (S,E)

**PHYS-45500 Electrodynamics** NS LA
Builds on the foundation gained in PHYS-30500. Topics include electric and magnetic fields, Gauss’s law, electric potential, circuits, Ampere’s law, Faraday’s law, and Maxwell’s equations. Prerequisites: PHYS-30500. 3 credits. (S,E)

**PHYS-47000 Selected Topics in Advanced Physics** NS LA
A capstone course in which students apply their physics skills to advanced topics. Current topics will be chosen based on faculty and student interests and may include advanced astronomy, environmental science, geophysics, and physics topics such as atomic, condensed matter, nuclear, and optical physics. This course may be repeated for credit for selected topics on different subjects. Prerequisites: Senior standing; permission of instructor. 3 credits. (I RR)

**PHYS-49900 Independent Research — Advanced** U LA
Prerequisites: Two credits of PHYS-39900; permission of instructor. 0.5–3 credits. (F-S,Y)
PLANNED STUDIES MAJOR

Bachelor of Arts, Bachelor of Science
Jerald Mirskin, Associate Professor and Coordinator

For information about the planned studies major, please see its listing under “Individual and Interdisciplinary Studies Programs.”

POLITICS

Bachelor of Arts
Thomas Shevory, Professor and Chair

The curriculum is designed to give students an understanding of political organization and political forces in modern society, to provide knowledge and a basis for insight and judgment on the problems involved in the relationship of the individual to government, the economy to government, and of governments to one another. Students are prepared for intelligent performance of the functions of citizenship, for careers in public service, foreign relations, the study of law, and for study at the graduate level.

Requirements for the Major in Politics — B.A.

Credits in the major

<table>
<thead>
<tr>
<th>Course Level</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>U.S. Politics</td>
<td>9</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>18</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>6</td>
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<tr>
<td>6</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total, credits in major</td>
<td>36</td>
</tr>
</tbody>
</table>

A grade of C is the minimum required in major field courses.

Credits outside the major

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foreign language competence</td>
<td>0–12</td>
</tr>
<tr>
<td>up to and including the</td>
<td></td>
</tr>
<tr>
<td>intermediate level</td>
<td></td>
</tr>
</tbody>
</table>

Summary

| Credits in the major | 36 |
| Credits outside the major | 0–12 |
| Free electives         | 72–84 |
| total, B.A. in politics | 120 |

Minor in Politics

Requirements for the minor

<table>
<thead>
<tr>
<th>Course Level</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>U.S. Politics</td>
<td>6</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total, minor in politics</td>
<td>21</td>
</tr>
</tbody>
</table>

A minimum grade of C is required in the above courses.

POLITICS COURSES

Introductory-Level Courses

U.S. Politics

POLT-10100 U.S. Politics SS LA 1, h
Institutions, processes, and cultural roots of U.S. politics. Complex interrelationships among a highly specific set of political-economic institutions that have evolved to reflect the conditions of U.S. society: Congress, the presidency, bureaucracy, judiciary, parties, interest groups, media, and the electoral process. This course or its equivalent is required of all majors. 3 credits. (F–S,Y)

POLT-10200 Media and Politics SS LA
The complex and subtle relationships between major political institutions and major communication media. Reporting of significant information about politics, both in the United States and in Europe, and efforts of governments to channel or control media; the American case of the Pentagon Papers and the French ORTF; and the Federal Communication Commission as a focal point in the continuing conflict between government and electronic media. 3 credits. (S,Y)

POLT-10300 U.S. and the World SS LA
Aims to comprehend the roots, both mythological and ideological, of U.S. politics; to understand the relationship between American politics and U.S. foreign policy; and to examine specific aspects of foreign policy and relate them to the above aims. 3 credits. (F–S,Y)

Comparative/International Studies

POLT-12200 Politics and Society SS LA
Analysis of political systems and their relationships with social and economic forces in the context of the U.S. political system, parliamentary democracies, one-party systems, and developing systems. Specific topics for study include the sociocultural base of politics, political change, leadership, and political participation. 3 credits. (F–S,Y)

POLT-12300 Political Justice SS LA 1, g
The definition and analysis of political trials in various cultural and historical contexts as an index of the modern state’s expanding claims on individuals and groups. Different perspectives of defense, prosecution, and judgment; media impact; extrajudicial means of repression. 3 credits. (F–S,Y)

POLT-12500 The Politics of Deviance SS LA 1
Is the definition of mental health in a society politically determined? This course examines U.S. and Soviet data on psychiatric and legal means of dealing with nonconformists and dissenters. Readings cover Freudian theory, case studies, and critiques by Szasz, Ennis, and Torrey. 3 credits. (S,Y)

POLT-12800 Introduction to International Relations SS LA 1, g
Introduces students to basic perspectives and events in world politics (international relations). Different theoretical positions (realism, nationalism, liberalism, transnationalism, globalization, Marxism, and feminism) and methodological approaches (case study, quantitative analysis, strategic modeling) are examined critically. The central purpose of the course is to provide the beginning student of international relations/world politics with the analytic tools necessary to understand contemporary events and to undertake advanced study in these areas. 3 credits. (S,Y)

POLT-12900 Introduction to Global Studies SS LA 1, g
The connections between the industrialized nations of Europe, North America, and the Pacific (the “North”) and the “third-world” nations of Africa, Asia, and Latin America (the “South”). From interdisciplinary and cross-cultural perspectives, the course examines a number of global issues — that is, issues transcending national boundaries, such as food and famine; population; foreign aid, debt, and development; natural resources, energy, and the environment; and national security and militarism. National and international public policies relating to these issues are examined critically and policy alternatives are explored, as are individual responses and responsibilities. The course emphasizes geographic literacy and global awareness. Students may receive credit for only one of the following courses: POLT-12900, ANTH-12900, HPS-12900. 3 credits. (F–S,Y)

POLT-23000 The Holocaust LA
This course surveys the Holocaust. Topics covered include the origins and development of anti-Semitism; the rise of Nazism; the response of European
Politics Courses

Jews to persecution before and during World War II; the evolution of Nazi policy from repression to genocide; the plight of refugees; the place of the Holocaust in the Nazi plan to create a new racial order in Europe; and the roles of bystanders and rescuers. Prerequisite: One course in the social sciences or humanities. 3 credits. (Y, F)

**Political Theory**

**POLT-14100 Power: Race, Sex, and Class**

Distribution of power in the United States according to class, sex, and race. What power is, where it comes from, where it is located. Analysis of class, democracy, capitalism, and specific issues they raise for policy making, persons, the family, and corporate power. 3 credits. (S, Y)

**POLT-14200 Ideas and Ideologies**

Exploration of the philosophical and ideological roots of political life and political inquiry. Concepts such as authority, legitimacy, freedom, and justice are studied, as well as the ideologies of liberalism, conservatism, communism, nationalism, and democracy. Analysis of the intellectual wellsprings of modern social and political sciences. 3 credits. (F-S, Y)

**POLT-29900 Field Study**

Opportunity for students to explore and experience facets of political life through work experience and/or field research. Academic credit contingent on completion of study design with departmental faculty member. (Course may not be used to satisfy level-1 distribution requirements.) Prerequisites: POLT-10100; one other course in the social sciences; permission of instructor. 1–6 credits. (Y)

**Intermediate-Level Courses**

Politics majors are expected to take at least six level-3 courses. These are divided into four fields: U.S. politics, comparative and international studies, political theory, and public policy. Majors are expected to take at least one course in each of these fields.

**U.S. Politics**

Emphasis in this field is placed on the organizations, institutions, and processes of U.S. political life at both the national and subnational level, including the study of U.S. leadership patterns, legislative politics, legal systems and their social implications, partisan competition, and fundamental social and economic forces that structure U.S. politics.

**POLT-30100 Legislative Behavior**

Analysis of legislative bodies, with an emphasis placed on the U.S. Congress, state and municipal legislatures, parliamentary legislatures, and other collegial bodies; legislative structures and roles, representation, and apportionment; executive-legislative relations; oversight and investigation; and legislative reform. Prerequisites: Three courses in social sciences or equivalent. 3 credits. (IRR)

**POLT-30300 Constitutional Law: Civil Rights and Liberties**

An introduction to constitutional law as it develops in the context of the U.S. political process. Emphasis is placed on civil rights and liberties (freedom of speech, press, and thought; equal protection; rights of the accused; etc.). Court decisions in these areas are related to attitudes and behaviors in the political and social system. Prerequisites: Three courses in social sciences or equivalent. 3 credits. (S, Y)

**POLT-30400 U.S. Party Politics**

The role of political parties in the U.S. political system, with special attention to the myth and reality of two-party politics. Organization and leadership of parties; election process; campaign strategies and techniques; money and politics; media and politics. Prerequisites: Three courses in social sciences or equivalent. 3 credits. (IRR)

**POLT-30500 Urban Politics**

Political forces operating within urban areas; older and larger urban areas and their problems in light of local, state, and national politics and policies. Prerequisites: Three courses in social sciences or equivalent. 3 credits. (IRR)

**POLT-30600 U.S. Foreign Policy**

Political and bureaucratic processes central to the formulation of U.S. foreign policy. Readings on the policy-making process; the role of bureaucratic organizations in policy making; and the role of the president, Congress, and Departments of State and Defense. These topics examined in the context of specific cases such as U.S.-Soviet relations, Sino-American relations, and the Vietnam War. Prerequisites: Three courses in social sciences or equivalent. 3 credits. (F, Y)

**POLT-30900 Personality and Politics**

Linkages between political life and the development of individual personality. Problems of political thinking and consciousness analyzed for individual citizens, small groups, and political leaders. Consideration of political biographies and public opinion materials. Prerequisites: Three courses in social sciences, or equivalent. 3 credits. (IRR)

**POLT-31000 Supreme Court in U.S. Politics**

Surveys, analyzes Supreme Court decision making in terms of an explicit theoretical framework concerning the court’s essential functions within the U.S. political system. Provides students with a nontechnical explanation of the activities of the Supreme Court — what the court does, why it does what it does, and what effects the court’s activities have had on U.S. society. Prerequisites: Three courses in social sciences, including U.S. politics, or equivalent. 3 credits. (Y)

**POLT-31900–POLT-32000 Selected Topics in U.S. Politics**

Matters of special contemporary interest to students and faculty may be developed under this course heading. May be repeated for credit for selected topics on different subjects. Prerequisites: Three courses in social sciences or equivalent. 3 credits. (IRR)

**Comparative and International Studies**

This field encompasses the comparative study of political institutions, processes, and sociocultural bases of political systems, along with patterns of international conflict and cooperation. It is intended to expose students to careful examination of a broad range of political phenomena, such as revolution, war, imperialism, styles of leadership, processes of political change, and systems maintenance.

**POLT-32100 Contemporary British Politics**

Introduction to the British political system. Functioning of governmental institutions, the class base of politics, political parties, elections, interest groups in policy process, and current issues confronting the British polity. Comparisons with U.S. political institutions and processes. Offered only through the London Center. Prerequisites: Three courses in social sciences or equivalent. 3 credits. (F-S, Y)

**POLT-32200 British Foreign Policy**

Examination of Britain’s historical role in world affairs as a great power and imperialist state, and of the forces leading to decline. Emphasis also is placed on the British position in East-West relations, relations with Europe and the EC, the role of the Commonwealth today, the foreign policy-making processes, and the differences among political parties, and current issues such as the nuclear arms debate and relations with South Africa. Offered only through the London Center. Prerequisites: Three courses in social sciences or equivalent. 3 credits. (F, Y)

**POLT-32400 Communist and Post-Communist Societies**

Primary focus on the transition from communism to post-communism during the late 1980s and early 1990s. Social, political, and economic causes of this transition mainly in the Soviet Union, Eastern Europe, and China are examined. Special attention is given to exploring and developing a general theoretical explanation for this unique historical process. Prerequisites: Three courses in social sciences. 3 credits. (F)

**POLT-32500 Chinese Politics**

Revolutionary change in modern China: historical survey of China from 1911 to 1949, with attention to development of the Chinese Communist party; rise of Mao Tse-tung and evolution of Maoist thought; and the People’s Republic from 1949 to the present with focus on political and social transformation of Chinese society. Prerequisites: Three courses in social sciences or equivalent. 3 credits. (S, Y)

**POLT-32600 Russian Politics**

The focus is on the new Russian state, from Boris Yeltsin onward, looking at the internal conflicts and external forces that shape the Russian experience, as well as continuities with the Soviet system. Considers the impact of Russian culture and nationalism on politics, looking in particular at the “Russian idea” of a uniquely Russian path of development superior to the Western experience. Draws on the Russian experience in order to cast light on questions such as what is democracy, what is the best way to democratize, what are the tensions between democracy and capitalism, and what is the difference between socialism and capitalism. Prerequisites: Three courses in social sciences or equivalent. 3 credits. (F, Y)
POLT-32700 The Politics of Development SS, LA
The struggle of third-world peoples to improve their economic position and political power in the international system. Special attention is given to problems of development in Latin America and Africa and to the role played by industrial societies in the development process. Prerequisites: Three courses in social sciences or equivalent. 3 credits. (S, O)

POLT-32800 International Conflict SS, LA
Study of nationalism, conflict among nations, the role of force and violence, cold wars and arms competitions, ideological conflicts, similarities and differences between international conflict and international conflict, and techniques of conflict resolution. Prerequisites: Three courses in social sciences or equivalent. 3 credits. (F, Y)

POLT-32900 Third World Politics SS, LA
Examines the impact of the emergence of a capitalist world economy on Asian, African, and Latin American societies with the objective of specifying both their common features and their particularities. The methodology is comparative and historical. Prerequisites: Three courses in social sciences. 3 credits. (S)

POLT-33000 European Politics SS, LA
Focuses on changes and continuities in European identity and democracy, and other trends and issues that Europe is facing at the start of the 21st century. Looks at institutions and parties of major European states as well as of the European Union, and at the transition to liberal political and economic systems in Eastern Europe. Also considers issues of citizenship, immigration, racism, and nationalism in all parts of Europe. Prerequisites: Three courses in social sciences or equivalent. 3 credits. (S, Y)

POLT-33100 Latin American Politics SS, LA
Undertakes a comparative political analysis of nations in the region called Latin America — Central and South America and the Caribbean. Includes a systemic analysis of intraregional relations, especially Latin America—U.S., and interregional relations between Latin America and Europe, Africa, Asia, and Russia. Prerequisites: Three courses in social sciences or equivalent. 3 credits. (F, E)

POLT-33200 Africa through Film: Image and Reality SS, LA 1, g, h
Challenges popular Western representations of the African continent through a study of representation and reality and interrogates the foundation of these constructs. Emphasizes the need for media literacy and exposure to counter-narratives in the study of African countries by exploring African politics, historiographies, and contemporary issues through extensive readings and a comparative analysis of diverse films from Hollywood, radical African filmmakers, and popular African cinema. Materials include Coming to America, Flame, and Lumumba. Students apply sociopolitical analysis to the subject matter, uncovering, for instance, apartheid ideology behind the portrayal of Africans in the film The Gods Must Be Crazy. Prerequisites: Three courses in social sciences or permission of instructor. 3 credits. (F, E)

POLT-33400 Politics of Rights and Culture SS, LA
Investigates controversial issues, including philosophical and legal debates that emphasize the lack of consensus on whether human rights are truly universal. Explores the contradictory ways in which religious, social, and cultural forces, gender and class struggles, and structural global inequalities generate diverse concepts of moral rights, justice, freedoms, and protections. Uses case studies and critical questions, such as that posed by Mahmoud Mamdani: “Can a culture of individual rights coexist with the right of every individual to practice one’s culture?” Provides comparative studies of the United States, Latin America, Asia, and the Middle East, but focuses primarily on African countries and their contributions to human rights discourse and practice. Prerequisites: Three courses in the social sciences. 3 credits. (S, O)

POLT-33500 Crossing Borders/Global Migration SS, LA
The movement of people across borders — as refugees and as workers — is a central political issue throughout the world, at times even becoming the focus of violence. The course focuses on the causes of these movements, as well as on questions migration raises about the meaning of borders and the link between identity, culture, and politics. This course uses a range of texts — journalistic accounts, academic writings, fiction, films, and the words of migrants themselves. We examine migrations at the global level, including the United States, as well as at the local level, including migrant workers in western New York. Prerequisites: Three courses in social sciences. 3 credits. (O)

POLT-33600 Whiteness and Multiculturalism SS, LA
This course interrogates the concept of whiteness and relates it to conceptualizations of multiculturalism, tackling these issues at both theoretical and empirical levels, drawing on cases from the United States as well as from other societies. The goal of the course is to foreground the category “white” and to recognize the meanings of this category, the effect it has on white and nonwhite individuals, and the direct relationship of whiteness to power. It also seeks to bring about a critical rethinking of the concept of multiculturalism by linking the study of whiteness to policies of multiculturalism. Prerequisite: Three courses in social sciences or equivalent. 3 credits. (E)

POLT-33700 Politics of Memory SS, LA
Exploration of the political and social dilemmas surrounding concepts such as collective memory, truth, justice, confession, forgiveness, healing, and reconciliation in sociopolitical spaces. How, for instance, will the political suppression or mobilization of memory vie for space with efforts to address the systematization of unconscionable crimes against humanity and to create a just peace? What lessons do the experiences of South Africa, the United States, Chile, and Rwanda offer other polarized societies? Students engage memory theory and the narratives of victims and perpetrators in examining Czech writer Milan Kundera’s suggestion that “the struggle of man against power is the struggle of memory against forgetting.” Prerequisites: Three courses in the social sciences. 3 credits. (IRR)

POLT-33800 Africa in World Politics SS, LA
Examination of the international policy framework of diverse African countries and their participation in regional and global politics. Students explore Africa’s changing position in the global economy and complex relationships with the African diaspora, Middle East, communist “East,” Western societies, and other, African countries. Includes contemporary debates over policy responses to the war against terrorism, the global politics of international Western gender diplomacy, AIDS discourse, environmental politics, the diamond trails, and Africa’s contributions to human rights philosophy and practice. Challenges the misconceptions of African passivity and isolation through a radical recentering of the continent in global politics and history. Prerequisites: Three courses in the social sciences. 3 credits. (IRR)

POLT-33900 Political Economy of the Middle East SS, LA
Analyzes the political economy of the Middle East from a historical and theoretical perspective. Explains the nature of socioeconomic change through analysis of the relationships among state, class, and economic development. Topics include the nature and role of the economy and the state, the processes of class formation, the role of women, the Arab-Israeli conflict, and U.S. interests in the region. Prerequisites: POLT-12900 or POLT-12900; two additional courses in social sciences. 3 credits. (F)

POLT-34000 Selected Topics in Comparative-International Studies SS, LA
Matters of special contemporary interest to students and faculty may be developed under this course heading. This arrangement permits departmental offerings to be responsive to evolving faculty and student interests. As a rule, a course may be offered once under this heading; it is then added to our regular offerings or discontinued. This course may be repeated for credit when topics change. Prerequisites: Three courses in social sciences or equivalent. 3 credits. (IRR)

Political Theory
Courses in this field concentrate on philosophical and conceptual concerns that appear throughout the discipline and merit emphasis in specific courses. Theories are explored through study of the basic interconnections between facts and values in politics. Included are general courses in empirical and normative political thought, more specific courses that center on particular theorists or theoretical constructions, and courses on the scope and methods of political analysis.

POLT-34100 U.S. Political Thought SS, LA
The writings of U.S. political thinkers from the Puritans to the present. Focus on questions of equality, rights of the individual, the role of community, relationship between the people and their leaders, the nature of change, and the place of education and religion in the United States. Prerequisites: Three courses in social sciences or equivalent. 3 credits. (IRR)

POLT-34200 Liberalism and Marxism SS, LA
Treats several important political ideas and questions from a feminist, as well as from a Marxist, perspective through historical political theory. The first part of the course addresses the division of labor in society and its relationship to private property and alienable labor; the second deals with the treatment of the sexual division of labor. Some of the key issues are conceptions of human nature: What is natural or innate? What is social? What necessitates government? The
course also looks at issues of reform or revolution. In essence, students examine classical liberalism as the ideology supporting the capitalist system. Primary readings from historical theorists (Locke, Hobbes, Rousseau, Mill, Marx, Goldman, and Luxemburg). Prerequisites: Three courses in social sciences or equivalent. 3 credits. (F,Y)

POLT-34300 Feminist Theory SS LA
Discussion of theories of women's oppression, historical and contemporary. In this sense the course is a study of feminist ideology as it has been developed by Mary Wollstonecraft, the early American feminists, Emma Goldman, J. S. Mill, socialist literature, and radical feminism. Key questions to be discussed throughout are the issues of the sexual division of labor; the acceptance or rejection of the issues of the sexual division of labor; and the acceptance or rejection of the connection between sexual and class oppression. We will be trying to develop a synthesis of much of the literature in order to assess and compare the contemporary women's movement with historical forms of women's struggle. Prerequisites: Three courses in social sciences or equivalent. 3 credits. (IRR)

POLT-34400 Contemporary British Political Theory SS LA
Particular emphasis is placed on the controversy concerning the responsibility of the state for economic and social equality. Attention is given to the concepts of freedom and equality and the ideas of market system liberalism, social democracy, socialism, Marxism, conservatism, and neoconservatism. Offered only through the London Center. Prerequisites: Three courses in social sciences or equivalent. 3 credits. (S,Y)

POLT-35000 Selected Topics in Political Theory SS LA
Matters of special contemporary interest to students and faculty may be developed under this course heading. May be repeated for credit when topics vary. Prerequisites: Three courses in social sciences or equivalent. 3 credits. (IRR)

Public Policy
Courses in this field provide students with analytical approaches to the study of public policy making and application. Particular emphasis is given to understanding the complexities of modern problems and the limitations and potential of public policy to effectively intervene in the interest of the common good. This field in particular is recommended for students interested in careers in the management of public affairs.

POLT-36200 Theory and Politics of Public Policy SS LA
Selected public policy issues: development, formulation, execution, and evaluation. Theories of the policy-making process, such as rationalism, incrementalism, and systems analysis, with a view toward understanding their analytical and explanatory power. Prerequisites: ECON-12100; two additional courses in social sciences or equivalent. 3 credits. (E,Y)

POLT-36300 Politics of Equality SS LA
Examines equality and inequality from a variety of perspectives, including philosophical, socioeconomic, and public policy analysis, as well as problems entailed in defining and justifying equality as a political and socioeconomic goal. Explores interpretations of the human consequences of inequality. Analyzes equality as a political problem in capitalist and socialist societies. Prerequisites: Three courses in social sciences or equivalent. 3 credits. (S,Y)

POLT-36400 Law and Public Policy SS LA
Gives a sense of the important place of public law in the policy-making process and examines how legal education shapes legal thinking. Considers the role of courts in forming policies related to housing, school desegregation, mental health care, prison reform, AIDS, and the environment. Contract theory is analyzed as it relates to issues like surrogate motherhood. Covers selected criminal law issues, such as those related to rape. Students evaluate the strengths and limitations of using legal approaches to the formulation of policy options. Prerequisites: Two politics courses; one course in sociology, history, philosophy, economics, or introduction to law. 3 credits. (S,Y)

POLT-36500 The Politics of Health SS LA
Introduction to issues in health policy as they relate to the general organization of political life in the United States. Methods for the allocation of scarce medical resources, such as markets, political devices, and lotteries, are analyzed and compared. AIDS is examined as a major public health problem. We consider genetic and procreative issues, including the politics of in vitro fertilization, surrogate motherhood contracts, abortion, and genetic engineering. Prerequisites: Two politics courses; one course in sociology, history, philosophy, or economics. 3 credits. (E,Y)

POLT-36600 Environmental Politics SS LA
Examines environmental protection (and destruction) from numerous political perspectives and in relation to various political ideologies. Looks at policy-making aspects of environmental protection. Traces the development of national and international environmental movements. Considers environmental issues in terms of race, gender, and class politics. Prerequisites: Three courses in the social sciences or equivalent. 3 credits. (Y)

POLT-37000 Selected Topics in Public Policy SS LA
Matters of special contemporary interest to students and faculty may be developed under this course heading. This course may be repeated for credit for selected topics on different subjects. Prerequisites: Three courses in social sciences or equivalent. 3 credits. (IRR)

Advanced-Level Courses
The department provides a variety of educational experiences at the advanced level, including seminars, directed study, tutorials, and internships. The requirement of 6 credits at the advanced level (level 4) may be met by selecting any one seminar and a combination of directed study, tutorials, and internships. Internship courses may be granted variable credit (1–12 credits). In addition, internships may be used to fulfill departmental requirements under the following conditions: Internships granted between 1 and 6 credits are considered the equivalent of one course toward the fulfillment of departmental requirements; internships granted between 7 and 12 credits are considered the equivalent of two courses toward the fulfillment of departmental requirements.

POLT-40100 Seminar: Comparative and International Studies SS LA
Small group settings designed to permit intensive examination of selected topics not provided elsewhere in the curriculum. Seminar topics change from year to year. Prerequisites: Three courses in social sciences or equivalent; permission of instructor. 3 credits. (F-S,Y)

POLT-40200 Seminar SS LA
Small group settings designed to permit intensive examination of selected topics not provided elsewhere in the curriculum. Seminar topics change from year to year. Prerequisites: Three courses in social sciences or equivalent; permission of instructor. 3 credits. (F-S,Y)

POLT-40300 Tutorial: Comparative and International Studies SS LA
Individual investigation of selected topics in politics through readings, written reports, and essays under tutorial supervision. Prerequisites: Three courses in social sciences or equivalent; permission of instructor. Variable credit. (F-S,Y)

POLT-40400 Tutorial SS LA
Individual investigation of selected topics in politics through readings, written reports, and essays under tutorial supervision. Prerequisites: Three courses in social sciences or equivalent; permission of instructor. Variable credit. (F-S,Y)

POLT-40500 Internship NLA
Permits students to explore politics through a variety of governmental and nongovernmental work experiences. Students are expected to perform full-time work for academic credit and to submit, as part of their course obligations, a thorough written evaluative report based on their experiences. Internships may be taken at national, state, and local levels, and in London under the auspices of the Ithaca College London Center. See information on internships, p. 117. Prerequisites: Three courses in social sciences or equivalent; permission of instructor. Variable credit. (F-S,Y)

POLT-49900 Directed Study SS LA
The program of study may be a reading program of materials of special interest to the student, or involve development and execution of a research project on a specific topic. Reading or research is undertaken under faculty direction. Prerequisites: Three courses in social sciences or equivalent; permission of instructor. Variable credit. (F-S,Y)

PSYCHOLOGY

Bachelor of Arts, Bachelor of Science
Bernard Beins, Professor and Chair

Through a variety of activities, students learn to approach the study of behavior scientifically and develop an understanding of how and why psychologists do research, and how that research contributes to our understanding of human and animal behavior.
In the department’s research team program, groups of students and a faculty member conduct programmatic research in such areas as environmental psychology, media effects, adolescence and aging, neuroscience, cognitive development, motivation, and humor. The interaction of students and faculty in actual research helps shape the student’s perception of psychology as a social-intellectual activity, rather than as a body of static knowledge to be passively assimilated.

The department offers a number of general psychology courses from which students majoring in other disciplines may select those most appropriate to their individual interests.

A student in the Department of Psychology typically may take no more than 12 credits of any combination of research team, independent study or independent research, internship, or honors work with the same faculty member.

Requirements for Honors in Psychology

Students have the opportunity to graduate with departmental honors in psychology. To be eligible, a student must be a psychology major or minor in the junior year, with a 3.00 average in psychology and an overall GPA of 3.00. In exceptional cases, a student with a GPA as low as 2.70 may be considered if performance in psychology courses is outstanding. In any case, grades in psychology courses must not be lower than C.

Honors projects may be lab or field studies or may be based on library research. A student seeking departmental honors needs a faculty sponsor from the psychology department. Other advisers may be required depending on the nature of the project. The project must fall clearly within the field of psychology.

Once the student and sponsor have identified a topic, the student proposes the project to the faculty, both orally and in writing following APA format. After approval, work on the project may begin. While such projects are underway, meetings of all honors students are scheduled to confirm that progress is being made toward completion. The student must present the finished project to the faculty, both orally and in writing, and the faculty must vote to approve it for honors.

Ordinarily, a student may take no more than 6 credits of honors work in psychology.

Advanced Placement

Students may receive equivalent credit for PSYC-10300 if they score 4 or 5 on the AP examination in psychology.

Requirements for the Major in Psychology — B.A.

Credits in the major

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>PSYC-10300, PSYC-11300</td>
<td>General Psychology</td>
</tr>
<tr>
<td>PSYC-20100, PSYC-20200</td>
<td>General Psychology Lab</td>
</tr>
<tr>
<td>PSYC-30400</td>
<td>Methods in Neuroscience</td>
</tr>
<tr>
<td>PSYC-32100, PSYC-40700</td>
<td>Honors Courses</td>
</tr>
<tr>
<td>PSYC-30200, PSYC-30300, PSYC-30400, PSYC-31600, PSYC-33000</td>
<td>Advanced Courses</td>
</tr>
<tr>
<td>PSYC-30100</td>
<td>Psychology Seminar</td>
</tr>
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</table>

Restricted electives

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>PSYC-49200</td>
<td>Seminar in Psychology or IISP-49200</td>
</tr>
</tbody>
</table>

Electives

Total, B.A. in psychology

42

Restrictions

Three consecutive semesters of research team participation, including PSYC-30200, PSYC-30300, and PSYC-30400.

Electives

Total, B.A. in psychology

120

Requirements for the Major in Applied Psychology — B.S.

This program is designed for psychology students with interests in applying psychology in organizational settings.

Requirements

Psychology

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>PSYC-10300, PSYC-11300</td>
<td>General Psychology</td>
</tr>
<tr>
<td>PSYC-20200</td>
<td>Psychological Foundations</td>
</tr>
<tr>
<td>PSYC-30100</td>
<td>Psychology Seminar</td>
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Restricted electives

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<tbody>
<tr>
<td>PSYC-49200</td>
<td>Seminar in Psychology or IISP-49200</td>
</tr>
</tbody>
</table>

Electives

Total, B.S. in applied psychology

120

Neuroscience Concentration

Neuroscience is an interdisciplinary field that encompasses psychology, biology, and other areas of brain research. The concentration builds on introductory courses in mathematics, physics, chemistry, biology, and psychology.

Requirements

<table>
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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>PSYC-31100</td>
<td>Behavioral Neuroscience</td>
</tr>
<tr>
<td>PSYC-31200</td>
<td>Behavioral Neuroscience Lab</td>
</tr>
<tr>
<td>PSYC-30100</td>
<td>Methods in Neuroscience</td>
</tr>
<tr>
<td>BIOL-20300, BIOL-21100, BIOL-22700, BIOL-34500, BIOL-35400</td>
<td>Speciality Area Courses</td>
</tr>
<tr>
<td>PSYC-30200, PSYC-30300, PSYC-30400</td>
<td>Neuroscience Courses</td>
</tr>
</tbody>
</table>

Electives

Total, neuroscience concentration

15

Either the specialty area or research courses must be taken for 6 credits.

Psychology-Optometry 3-1 Program

This joint program with an optometry college (see p. 116) enables psychology majors to enter the optometry program after three years of undergraduate study. All graduation requirements of Ithaca College and the psychology department must be fulfilled during the first 90 credits of this program. After acceptance to the optometry program and upon successful completion of the first year of optometry college, the bachelor’s degree in psychology is awarded by Ithaca College. This program must be carefully planned with the student’s adviser.

Minor in Psychology

Students minor in psychology take seven semester courses in psychology, completing at least 20 credits. Two of these courses must be PSYC-10300 General Psychology and PSYC-11300 General Psychology Laboratory. Ordinarily PSYC-10300 and PSYC-11300 are taken as the first courses. At least two of the courses must be at the upper level (level 3 or level 4) and no more than three may be at level 1.

Students develop their minor programs in consultation with a designated minor adviser in the Department of Psychology. The department will accept courses that are required by a student’s major in fulfillment of requirements in the minor.

Electives

Total, B.S. in applied psychology

120

176
PSYCHOLOGY COURSES

PSYC-10000  The Psychology of Adjustment  SS LA 1
Introduction to the psychology of human behavior intended for the freshman non-psychology major who wants a broad overview of those aspects of psychology most relevant to problems of living for the late adolescent and young adult years. Juniors and seniors need consent of instructor. 3 credits. (F-S-Y)

PSYC-10300  General Psychology  SS LA 1
Introduction to the study of behavior, focusing on the influences of physiological, cognitive, social, and personality factors on behavior, including discussion of the major theories in psychology and related research. 3 credits. (F-S-Y)

PSYC-11300  General Psychology Laboratory  LA
Primarily for majors and minors in psychology. Designed to complement PSYC-10300. Students are introduced to a variety of experimental techniques in psychology, and learn how to collect and analyze data and how to write scientific papers. One hour of lecture and two hours of laboratory work are required each week. Not open to students who have earned credit for PSYC-12100. Prerequisites: Math Group 1, 2, or 3; PSYC-10300 (may be taken concurrently). 2 credits. (F-S-Y)

PSYC-10400  Introduction to Developmental Psychology  SS LA 1
Introduction to the study of developmental processes, with an emphasis placed on genetic and environmental influences on the organism’s physical, cognitive, social, and personality development across the life span. For majors in areas other than psychology, 3 credits. (F-S-Y)

PSYC-15300, PSYC-25300, PSYC-35300, PSYC-45300  Selected Topics  NS/SS/U LA
Courses offered on various topics chosen by faculty members or resulting from students’ requests. This course may be repeated for credit when topics vary. Prerequisites appropriate to the course level will be announced when course descriptions are distributed. Offered on demand only. 1–3 credits.

PSYC-20100  Proseminar in Development  U LA
An examination of the role of biological, experiential, and societal factors in the development of perceptual, cognitive, and interpersonal processes, with an emphasis placed on major developmental theories and methods of study. For majors, nonmajors need consent of instructor. Prerequisites: PSYC-11300. 3 credits. (F-S-Y)

PSYC-20200  Proseminar in Motivation  U LA 1
An examination of the biological, individual, and social aspects of psychological motivation, including a study of principal theories of motivation, research methods, and findings. For majors; nonmajors need consent of instructor. Prerequisites: PSYC-1300. 3 credits. (F-S-Y)

PSYC-20300  Principles of Psychology  SS LA 1
Introduction to the field of psychology for upper-level students not majoring in psychology. Emphasis is placed on the experimental approach to psychology with coverage of a variety of areas in the field, different methodologies, and major psychological theories. Students learn how psychologists conduct research, and how the data they collect and analyze contribute to knowledge in the field. Not open to students who have earned credit for PSYC-10300. Prerequisites: Sophomore standing. 3 credits. (IRR)

PSYC-20400  Principles of Developmental Psychology  SS LA 1
Introduction to developmental psychology from an experiential perspective for upper-level students not majoring in psychology. Emphasizes the nature of developmental research and important theories in developmental psychology. Integrates the content of developmental psychology with its methods; students study not only what psychologists have learned about development, but also how they make their discoveries. Not open to students who have earned credit for PSYC-10400. Prerequisites: Sophomore standing. 3 credits. (IRR)

PSYC-20500  Life-Span Development: A Cross-Cultural Perspective  SS LA 1, g
An examination of theory and research within the field of developmental psychology, with attention paid to similarities and differences in development across cultures. This course emphasizes the role of the social and cultural contexts on development by examining cross-cultural and multicultural research, issues, and findings. Prerequisites: PSYC-10300. 3 credits. (Y)

PSYC-20700  Statistics in Psychology  NS LA 2b
Introduction to the computation and interpretation of the basic descriptive and inferential statistics used in the behavioral sciences. Emphasis is placed on analyzing data using statistical software (SPSS). Prerequisites: Math group 1, 2, or 3; PSYC-10300, PSYC-10400, or PSYC-11300. 4 credits. (F-S-Y)

PSYC-21010  Educational Psychology  SS LA
Study of human development from infancy through adolescence, including cognitive and behavioral approaches to learning in the context of school and other instructional situations. Attention given to the empirical (scientific) analysis of methods and strategies that can be used to optimize learning. Prerequisites: Sophomore standing. 3 credits. (F-S-Y)

PSYC-24100  Family Dynamics and Therapy  SS LA 1
Introduction to systems theory and an examination of the varied dynamics of the American family. Students will be introduced to theories of normal and disturbed family functioning and the use of systems theory to produce positive change. Special emphasis is placed on tracing disturbed patterns of functioning from one generation to the next. Prerequisites: Sophomore standing; PSYC-10300. 3 credits. (F-S-Y)

PSYC-26100  Psychology of Women  SS LA 1
In-depth examination of the psychology of women in contemporary society. Review of the research on gender differences and consideration of the theories (social learning, psychoanalytic, and biological) that have attempted to explain the differences. Focuses on some of the central experiences of women’s lives (including relationships, work, mothering, sexuality, and mental health) with particular attention to the ways in which women’s psychological development differs from that of men’s in a patriarchal society. Prerequisites: PSYC-10300 or PSYC-10400; sophomore standing. 3 credits. (F-S-Y)

PSYC-30100  Methods in Neuroscience  U LA
This course is required for the neuroscience concentration and is the first semester of research team VIII for psychology majors. Demonstrations and participation in the various techniques for doing research in the neurosciences. Prerequisites: PSYC-11300; PSYC-20700; consent of instructor. 2 credits. (F-S-Y)

PSYC-30200  First Semester Research Team  U LA
The first of three semesters of participation in programmatic research by teams of students under the direction of one or more faculty members. A student may participate in more than one team. Prerequisites: PSYC-11300; PSYC-20700; consent of instructor. 2 credits. (F-S-Y)

PSYC-30300  Second Semester Research Team  U LA
See PSYC-30200 for description. Prerequisites: PSYC-30100 or PSYC-30200; PSYC-30800 or PSYC-30900 (may be taken concurrently); consent of instructor. 2 credits. (F-S-Y)

PSYC-30400  Third Semester Research Team  U LA
See PSYC-30200 for description. Prerequisites: PSYC-30300; PSYC-30800 or PSYC-30900 (may be taken concurrently); consent of instructor. 2 credits. (F-S-Y)

PSYC-30800  Research Methods in Psychology  U LA
Analysis of methodological designs used in psychological research, and application of statistical methods for behavioral sciences with special emphasis placed on the experimental method. Students should be able to use SPSS on the computer. Prerequisites: PSYC-11300; PSYC-20700. 3 credits. (F-S-Y)

PSYC-30900  Methods of Testing and Assessment  U LA
Behavioral measurement in the context of psychometrics, presented with examples and demonstrations from the areas of “intelligence,” aptitude, achievement, interest, and personality assessment. The ethical and technical challenges of test selection, administration, and interpretation are discussed. Prerequisites: PSYC-11300; PSYC-20700. 3 credits. (F-S-Y)

PSYC-31001–PSYC-31006  Advanced Psychology Laboratory Special Topics  LA
An advanced laboratory course in which students will conduct one or more investigations in psychological topic areas that will vary by semester. This course will emphasize ethics, knowledge of research design, statistical analysis, becoming familiar with research relevant to the investigation(s), and working collaboratively. In addition, students will learn how to read scientific papers and write laboratory reports organized in APA style. No more than two advanced psychology laboratories may be taken. May be repeated once for credit. Prerequisites: BIOL-11300; BIOL-20700; permission of instructor. 1 credit. (IRR)

PSYC-31001  Advanced Psychology Laboratory in Social Psychology
PSYC-31002  Advanced Psychology Laboratory in Cognitive Psychology
PSYC-31003  Advanced Psychology Laboratory in Developmental Psychology
PSYC-31004  Advanced Psychology Laboratory in Biological Psychology
PSYC-31005  Advanced Psychology Laboratory in Clinical Psychology
PSYC-31006  Advanced Psychology Laboratory in Applied Psychology
PSYC-31100 Behavioral Neuroscience NS LA 2a
Study of the anatomical structures and biochemical and physiological processes that affect and mediate the emotional, psychological, and behavioral states of the organism. Prerequisites: One of the following: PSYC-20100, PSYC-20200, PSYC-20700, BIOL-20300, BIOL-20600, BIOL-20800, BIOL-21100, BIOL-27800, CHEM-22100, CHEM-22200, PHYS-21700, PHYS-21800, or SLPA-21200. 3 credits. (F,S,Y)

PSYC-31200 Behavioral Neuroscience Lab NS LA
Designed to complement PSYC-31100. Students take part in demonstrations and hands-on work with the variety of techniques necessary to understand behavioral neuroscience, including surgery, anatomy, histology, and electrical stimulation and recording. Prerequisites: PSYC-31100 (may be taken concurrently). 1 credit. (F,S,Y)

PSYC-31600 Social Psychology SS LA 1
Study of the psychological determinants of social behavior and interpersonal processes, as well as the social determinants of the development of self-concept, beliefs, and attitudes. Prerequisites: PSYC-20100, PSYC-20200, or PSYC-20700. 3 credits. (F,S,Y)

PSYC-32100 Abnormal Psychology SS LA
Introduction to dynamics of normal and abnormal behavior, with special emphasis on causes, patterns, and dynamics of inefficient and inadequate behavior. Prerequisites: PSYC-20100, PSYC-20200, or PSYC-20700. 3 credits. (F,S,Y)

PSYC-33000 Cognition NS LA 2a
Selected topics in cognitive psychology, including perception, attention, memory, language, problem solving, decision making, and reasoning. Developmental changes and individual differences in cognitive skills are examined. Throughout the course, applications of cognitive research in fields such as law, education, and business are considered. Prerequisites: One of the following: PSYC-20100, PSYC-20200, PSYC-20200, PSYC-20700, BIOL-20300, BIOL-20600, BIOL-20800, BIOL-21100, BIOL-27800, CHEM-22100, CHEM-22200, PHYS-21700, or PHYS-21800. 3 credits. (F,S,Y)

PSYC-33400 Industrial and Organizational Psychology SS LA
Overview of the application of psychology to the behavior of people in workplace settings. Topics include personnel psychology, organizational behavior, workplace design, and consumer psychology. Prerequisites: PSYC-10300; PSYC-20100, PSYC-20200, MGMT-20600, or OCLD-21000. 3 credits. (F,Y)

PSYC-33500 Program Evaluation SS LA
Techniques and procedures involved in evaluating social, legislative, educational, and policy-related interventions. Procedures used in evaluating such psychologically based interventions as DWI legislation, substance abuse, and corporate training programs are explored. Students learn to apply knowledge and skills to real-world research. Prerequisites: Junior standing; PSYC-20700, MATH-24300, MATH-24400, or MKTG-31000. 3 credits. (F,Y)

PSYC-34100 Forms of Therapy SS LA
Introduction to modalities of individual psychotherapy, including cognitive-behavioral, humanistic, and psychodynamic. Goals include achieving an understanding of therapeutic modalities, as well as an appreciation for issues related to pharmacological treatments and methods for evaluating the outcome of treatment interventions. Prerequisite: PSYC-32100. 3 credits. (S,Y)

PSYC-35100 Independent Supervised Study U LA
In-depth study of topic of interest in psychology, chosen in consultation with supervising instructor. A student may undertake more than one independent study, offered on demand only. Prerequisites: Consent of instructor. Variable credit (commensurate with the complexity of the study). (IRR)

PSYC-35200 Independent Supervised Research U LA
Students conduct empirical research on a topic selected in consultation with the instructor. Students may undertake more than one independent, supervised research project. Offered on demand only. Prerequisites: Consent of instructor. Variable credit (commensurate with the complexity of the project). (IRR)

PSYC-35400 Psychology Laboratory Techniques NLA
A training course for students who have been selected as lab assistants for PSYC-11300 General Psychology Laboratory. This course is designed to provide students with skills in operating lab equipment, leading group discussions, and scoring lab reports. Prerequisites: PSYC-11300; PSYC-20700; consent of instructor. 1 credit. (F,S,Y)

PSYC-36500 Development in Adolescence SS LA 1
Examination of psychological development from pubescence through the transition to adulthood. Attention is given to cognitive, personality, and social development. Special topics include sexuality, delinquency, emotional disturbance, and education. The focus is on adolescence in the United States, but cross-cultural perspectives are included. Prerequisites: Completion of three social science courses, including PSYC-10300, PSYC-10400, PSYC-20100, or PSYC-20200; junior standing. 3 credits. (S,Y)

PSYC-36600 Psychology of Aging SS LA 1
Examination of the biological, societal, and individual factors that influence the age-related changes in perceptual, cognitive, and social-personality processes in the middle and later years of life, with an emphasis placed on major developmental theories and methods of study. Prerequisites: PSYC-10400 or PSYC-20100; at least one other social science course. 3 credits. (F,Y)

PSYC-40700 Personality SS LA
Introduction to personality theories and their evaluation, including general and integrative theories and biophysical, biophilosophical, biosocial interaction, and learning theories. Prerequisites: One level-3 psychology course; junior standing. Students who are not psychology majors or minors must have the consent of the instructor. 3 credits. (F,Y)

PSYC-40800 Special Problems in Abnormal Psychology SS LA
Study of the etiology and symptomatology of neurotic and psychotic behavior and other forms of personality disorder. Prerequisites: PSYC-32100; junior standing. 3 credits. (IRR)

PSYC-45000 Supervised Internship NLA
Applied experience in a setting appropriate to students’ interest and training. Settings include the Mental Health Clinic, Community Dispute Resolution Center, and Suicide Prevention and Crisis Service. Students undergo training at the site, do assigned reading, and write final reports. Arranged individually with departmental approval. Prerequisites: Completion of H&S internship application process. Variable credit. (IRR)

PSYC-45100 Advanced Independent Supervised Study U LA
Intensive study of an individually selected topic in psychology, including honors studies (generally following PSYC-35100). Offered on demand only. Prerequisites: Senior standing; consent of the department. Variable credit.

PSYC-45200 Advanced Independent Supervised Research U LA
Intensive empirical research, including honors research (generally following PSYC-35200). Offered on demand only. Prerequisites: Senior standing; consent of the department. Variable credit.

PSYC-47000 History of Scientific Psychology HU LA 1,h
Investigates the development of theories of psychology and the nature of their research paradigms, as well as the antecedents of psychology in philosophy, the natural sciences, and medicine. Emphasis is given to those elements that differentiate psychology, as a behavioral science, from other empirical disciplines. The effects of world events on psychology are discussed, and the effect of psychology on our own society is presented. Students are exposed to the different approaches to psychology in Europe, Asia, and the former Soviet Union. Prerequisites: One level-3 psychology course or senior standing. Students who are not junior or senior psychology majors or minors need the consent of the instructor. 3 credits. (IRR)

PSYC-49200 Seminar in Psychology U LA
Intensive investigation of selected topics in psychology. A student may participate in more than one seminar. Prerequisites: Senior standing; consent of the instructor. 3 credits. (F,S,Y)

SOCIOLOGY
Bachelor of Arts
Jonathan Laskowitz, Associate Professor and Chair
Students pursuing a degree in sociology in the School of Humanities and Sciences explore the complex dynamics that exist between individuals and the social forces that shape them.

How do societies change? What makes social order possible? What are the sources of conflict in society? How is power exercised and how is ideology used to control people? How do people organize to create change? How do racial and ethnic prejudices develop and become entrenched in society? How do we define human sexuality and sexual norms? How has the family unit evolved over time?

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These are the kinds of questions students grapple with in courses in the sociology major at Ithaca College. In the process, they come to a deeper understanding of their own values and societal roles, and begin to see how they can effect changes in individual behaviors and in society at large.

Faculty in the sociology department work closely with students to help them develop skills in writing and analysis, computers, and research methods. Students develop their own interests through internships in real-world settings and through close collaboration with faculty in independent study projects.

In addition, the department offers a social work program — an applied program leading to a minor in social work. Prerequisite courses in the minor include psychology, sociology, economics, and public policy and welfare. Practice-oriented courses, such as SOCI-36100 Social Welfare and Social Work, have a fieldwork component to provide practical experience.

Sociology majors receive broad training in the discipline and in a concentration in one of six major subfields described below.

**Requirements for the Major in Sociology — B.A.**

General requirements — The requirements for the sociology major are 21 prescribed credits in general and fundamental studies and statistics; 21 elective credits, including one “focused studies” sequence or concentration; and 78 credits in open electives. Majors must take no fewer than 9 credits at level 4 in sociology. At least 3 credits of level 4 must be a departmental course numbered SOCI-40100 to SOCI-46900 (excluding SOCI-46300); no more than 3 credits may come from coursework related to being a teaching assistant in SOCI-48000, SOCI-48100, or SOCI-48200; and no more than 3 internship credits from SOCI-49000 to SOCI-49600 may be applied toward the level 4 requirement. For graduation, 120 credits are required as follows:

**Credits in the major**

**Required courses**

- **SOCI-10100** Introduction to Sociology 3
- **SOCI-31100** Sociological Theory 3
- **SOCI-33500** Research Methods I 3
- **SOCI-35400** Research Methods II 3

**Courses in Foundations of Sociological Inquiry (choose two)**

- **SOCI-20400** Sociology of Signs, Symbols, and Collective Beliefs
- **SOCI-20600** Urban Sociology
- **SOCI-20700** Race and Ethnicity
- **SOCI-20800** Social Change
- **SOCI-21300** Sexual Oppression
- **SOCI-29300** Introduction to Social Institutions and Organizations
- **SOCI-31300** Social Inequality
- **SOCI-31800** Political Sociology 6

Total, required courses 18

Sociology electives 21

Total, credits in the major 39

**Credits outside sociology**

- **MATH-15500** Basic Statistical Reasoning or equivalent statistics course 3

Total, credits outside sociology 3

Students must also complete one of the concentrations listed below. The concentration may include courses from either the 18 credits of required sociology courses or the 21 credits of sociology electives.

**Select one of the following:**

- **SOCI-21400** Definitions of Normality 3

**Select one of the following:**

- **SOCI-30700** Social Policy 3

**Select one of the following:**

- **SOCI-30800** Counseling Theory and Dynamics 3

**Select one of the following:**

- **SOCI-37000** Counseling the Older Adult 3

**Select one of the following:**

- **SOCI-41400** Seminar: Mental Health Interventions
- **SOCI-41400** Seminar: Treatment and Prevention of Family Violence
- **SOCI-43000** Selected Topics in Clinical Sociology
- **SOCI-48800** Counseling the Older Adult: Research

**Select one of the following:**

- **SOCI-44000** Tutorial in Clinical Sociology
- **SOCI-46300** Field Research
- **SOCI-47000** Independent Studies in Clinical Sociology
- **SOCI-49000** Internship in Clinical Sociology 3

**Clinical Sociology**

Courses in this concentration help students examine the relation between “personal problems” and the larger societal structure. Students learn about theories behind counseling, intervention strategies, effective listening skills, and helping relationships. The clinical sociology concentration and the minor in social work prepare students for entry-level positions in human services or for immediate placement in graduate schools of social work. Many students who graduate in this field become professionals in educational or mental health settings.

**Select one of the following:**

- **SOCI-21400** Definitions of Normality
- **SOCI-21500** Introduction to Contemporary Mental Health Issues

**Select one of the following:**

- **SOCI-30700** Social Policy (Students who minor in social work may not use SOCI-30700 or SOCI-36100 to fulfill the requirements for a concentration in clinical sociology)
- **SOCI-32300** Family Violence
- **SOCI-36100** Social Welfare and Social Work
- **SOCI-37000** Counseling the Older Adult

**Select one of the following:**

- **SOCI-41400** Seminar: Mental Health Interventions
- **SOCI-41400** Seminar: Treatment and Prevention of Family Violence
- **SOCI-43000** Selected Topics in Clinical Sociology
- **SOCI-48800** Counseling the Older Adult: Research

**Select one of the following:**

- **SOCI-44000** Tutorial in Clinical Sociology
- **SOCI-46300** Field Research
- **SOCI-47000** Independent Studies in Clinical Sociology
- **SOCI-49000** Internship in Clinical Sociology

**Gender Studies**

Students pursuing this concentration look at how male and female humans come to be defined as men and women, and examine the socially constructed relationships between them. Courses focus on the history and current aspects of gender inequality as manifested in sexuality and interpersonal relationships, health care, work, and the family. Gender is explored with an emphasis on race, class, and sexual orientation. This in-depth analysis of an issue of growing
concern throughout our society leads to opportunities for graduate study or career paths in business or human services.

**Sociology**

Select two of the following:

- SOCI-21000 Sociology of Gender
- SOCI-21300 Sexual Oppression
- SOCI-22800 Men’s Lives

Select one of the following:

- SOCI-31000 Women and Health
- SOCI-32300 Family Violence
- SOCI-32500 Race, Class, and Gender
- SOCI-32700 Work and the Family

Race and Ethnic Relations

In this concentration, students engage in the formal analysis of policies, laws, and social movements related to race and ethnic issues. They investigate racial and cultural diversity in the United States and in other societies, including patterns of racial and ethnic stratification. Many students focusing on this area become involved in activities aimed at overcoming inequalities in our society. The study of race and ethnic relations forms a strong foundation for many careers and graduate programs in our global society.

Select one of the following:

- SOCI-20700 Race and Ethnicity
- SOCI-22600 Sociology of Hispanic Americans
- SOCI-23300 Selected Topics in Race and Ethnic Relations

Select one of the following:

- SOCI-30300 Global Race and Ethnic Relations
- SOCI-34100 Minorities in the United Kingdom
- SOCI-31200 Culture and Society: An International Field Experience

Select one of the following:

- SOCI-31000 Civil Rights and Social Movements
- SOCI-31300 Social Inequality
- SOCI-32300 Race, Class, and Gender
- SOCI-37600 Poverty

Select one of the following:

- SOCI-41900 Seminar: Women in the Third World
- SOCI-42000 Seminar: Sociological Feminist Theory
- SOCI-42700 Seminar: Class, Gender, and Work
- SOCI-43100 Selected Topics in Gender Studies

Sociology of Family and Relationships

This concentration provides students with a critical look at the nature of the family and relationships in historical, cross-cultural, and sociological contexts. Students investigate specific economic, political, psychological, and demographic factors that both affect and are affected by changing family and relationship arrangements. By focusing on these particular issues, students prepare themselves for graduate study and work with families, either in the field of domestic violence or as counselors in other human service areas.

Select two of the following:

- SOCI-29200 The Changing Family
- SOCI-32300 Family Violence

Select one of the following:

- SOCI-21800 Individual and Society
- SOCI-22000 Sociology of Aging
- SOCI-30600 Space of Intimacy
- SOCI-32700 Work and the Family
- SOCI-33400 Selected Topics in Sociology of Family and Relationships
- SOCI-37000 Counseling the Older Adult

Select one of the following:

- SOCI-41600 Seminar: Treatment and Prevention of Family Violence
- SOCI-42200 Seminar: Family Forms
- SOCI-48800 Counseling the Older Adult: Research
- SOCI-44400 Tutorial in Sociology of Families and Relationships
- SOCI-47400 Independent Study in Sociology of Family and Relationships

Social Institutions and Organizations

This concentration is designed for students interested in health care systems, education, the workplace, or religious institutions. Students investigate how power and ideology affect those who act in institutions and organizations, either as authority figures or as clients. They also explore the nature of bureaucracy and how it affects us all in a bureaucratized society. Sociology majors who concentrate in this area are prepared to pursue additional training and careers in a wide range of fields, including health education or administration, health advocacy, teaching, labor relations, and business.

Select one of the following:

- SOCI-21200 Sociology of Work
- SOCI-21900 Sociology of Religious Institutions
- HIST-22000 Sociology of Aging
- SOCI-29200 The Changing Family
- SOCI-30100 Technology and Society
- SOCI-31400 Sociology of Health and Medicine
- SOCI-31600 Women and Health
- SOCI-31800 Political Sociology
- SOCI-32200 Forms of Punishment
- SOCI-32700 Work and the Family
- SOCI-35100 Sociology of Education

Select one of the following:

- SOCI-41200 Seminar: The National Health System
- SOCI-41500 Seminar: The Police
- SOCI-42700 Seminar: Class, Gender, and Work
- SOCI-42800 Simulating Social Processes
- SOCI-43500 Selected Topics in Social Institutions and Organizations
- SOCI-44400 Tutorial in Social Institutions and Organizations
- SOCI-47500 Independent Studies in Social Institutions and Organizations
- SOCI-49500 Internship in Social Institutions and Organizations

Requirements for the Minor in Sociology

- SOCI-10100 Introduction to Sociology 3
- SOCI-10200 Contemporary Social Issues 3
- SOCI-29300 Introduction to Social Institutions and Organizations 3
- PSYC-20400 Principles of Developmental Psychology 3
- ECON-12200 Principles of Microeconomics (may be taken concurrently with ECON-26200 Economics of Welfare Policies)
- ECON-26200 Economics of Welfare Policy 3

Social Work Program

The social work program is an applied program leading to an 18-credit minor in social work. The sequence includes prerequisite courses in psychology, sociology, and economics, and more advanced background courses in public policy and the economic aspects of public welfare. The first practice-oriented course is SOCI-36100 Social Welfare and Social Work, which has a fieldwork component. This is followed by SOCI-34600 Methods of Social Work and a 3-credit supervised fieldwork course. Additional electives round out the concentration. The minor provides academic and practical experience as preparation for employment or for graduate studies. Details are available from the coordinator of the social work program.

Requirements for the minor in social work

**Prerequisites**

- SOCI-10100 Introduction to Sociology 3
- PSYC-20400 Principles of Developmental Psychology 3
- ECON-12200 Principles of Microeconomics (may be taken concurrently with ECON-26200 Economics of Welfare Policies) 3
### Individualized Study Opportunities

Field research experiences are provided in many departmental courses and can be pursued as independent study or internship projects. Field placements are available in a variety of local settings, including the Ithaca Youth Bureau, Southside Community Center, Tompkins County Social Services, Cayuga Medical Center at Ithaca, lawyers’ offices, Offender Aid and Restoration, and local juvenile lock-up institutions.

Independent study experience is arranged between the professor and student. Some more recent examples of this option include projects on eco-justice in Ithaca, ethnic conflict in the Virgin Islands, community control and development, women and alcohol, economic opportunity centers, infancy and children, student life, solar-age construction, and alternative communities; and organizational analysis of local banks and insurance companies.

### Internships

Internships are designed to provide students with a supervised and structured experience. Often these can be arranged by students and specific agencies in communities around the country. The sociology department believes that internships provide an opportunity to obtain work experience, and to analyze the social and political context of the specific agency. An example is an internship with the Ithaca drug treatment court.

### SOCIOLOGY COURSES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCI-10100</td>
<td>Introduction to Sociology</td>
<td>SS LA 1</td>
<td>Basic scientific concepts related to social systems, recurring social processes, cultural factors, and social factors in the development of personality. Also offered through the London Center. 3 credits. (F-S,Y)</td>
</tr>
<tr>
<td>SOCI-10200</td>
<td>Contemporary Sociological Issues</td>
<td>SS LA 1</td>
<td>Various issues relevant to the future of American society from a sociological perspective. Issues covered vary with instructor. Not open to seniors. 3 credits. (Y)</td>
</tr>
<tr>
<td>SOCI-11600</td>
<td>Introduction to Multicultural Studies</td>
<td>SS LA 1</td>
<td>Designed to increase students’ awareness of cultural diversity and to acquaint them with multiculturalism as a contemporary social phenomenon. The course describes characteristics of our culture and society that have led to intolerance and ethnic prejudices, characteristics that impede people’s understanding and appreciation of diversity. Students are introduced to basic concepts, competing theories, and current controversies related to multiculturalism in our society as well as in others. Not open to seniors. 3 credits. (Y)</td>
</tr>
<tr>
<td>SOCI-13000</td>
<td>Youth and Youth Cultures</td>
<td>SS LA 1</td>
<td>Analysis of the significance of youth — their culture and the institutions that have emerged to define and serve them. Topics include youth and politics, student movements, educational institutions, and stratification of youth by race, sex, and social class. The readings include novels and autobiographies, as well as sociological and historical analyses. Not open to seniors. 3 credits. (Y)</td>
</tr>
<tr>
<td>SOCI-13600</td>
<td>Investigating Social Issues</td>
<td>SS LA</td>
<td>Investigates social issues through data analysis and sociological texts, exploring existing data sets and published research. Topics may include social class, gender, race, ethnicity, sexuality, family, education, crime, political beliefs, and religion. A student may not receive credit for both SOCI-13600 and SOCI-13500. 3 credits. (Y)</td>
</tr>
<tr>
<td>SOCI-20200</td>
<td>Women in Britain</td>
<td>SS LA 1</td>
<td>Examination of the various social, historical, political, and economic factors that affect the position of women in contemporary Britain. Comparisons are drawn with specific issues in other Western countries. Offered only through the London Center. Prerequisites: One course in social sciences. 3 credits. (F-S,Y)</td>
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<tr>
<td>SOCI-20300</td>
<td>Juvenile Delinquency</td>
<td>SS LA</td>
<td>Analysis of juvenile delinquency and its social reality. Systematic examination of issues in defining and measuring delinquency, theories of cause, gang behavior, the juvenile justice system, and issues and alternatives in response and treatment. Prerequisites: SOCI-10100. 3 credits. (F-S,Y)</td>
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<tr>
<td>SOCI-20400</td>
<td>Sociology of Signs, Symbols, and Collective Beliefs</td>
<td>SS LA 1</td>
<td>Exploration of the extent to which thoughts and actions are stories about reality, and the ways these stories are supported by cultural artifacts like television shows, advertisements, fashion, heroes, criminals, and sex symbols. Prerequisites: SOCI-10100. 3 credits. (F-S,Y)</td>
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<tr>
<td>SOCI-20600</td>
<td>Urban Sociology</td>
<td>SS LA 1</td>
<td>Growth of urbanization and the concomitant changes in function of such key community institutions as the family, education, religion, economy, and the polity. Included is the study of stratification and decision-making power in the community. Prerequisites: SOCI-10100. 3 credits. (F-S,Y)</td>
</tr>
<tr>
<td>SOCI-20700</td>
<td>Race and Ethnicity</td>
<td>SS LA 1, h</td>
<td>Critical analysis of race and ethnic relations in the United States from assimilationist, pluralist, and Marxist perspectives. Comparative analysis of black, Latino, and white racial/ethnic experiences. Examinations of race and ethnicity as dimensions of social stratification and control. Specific concepts include prejudice, discrimination, institutional racism, internal colonialism, and ethnic identification. Prerequisites: One course in the social sciences or sophomore standing. 3 credits. (F-S,Y)</td>
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<tr>
<td>SOCI-20800</td>
<td>Social Change</td>
<td>SS LA 1, h</td>
<td>Analysis of evolutionary and revolutionary social change from the perspective of critical sociology. Topics include the types of groups that mobilize for change, recruitment of new members, ideologies of groups, and leadership styles. Particular U.S. social change movements examined include labor, civil rights, anti-war, welfare rights, women's movement, and the new right. Prerequisites: SOCI-10100. 3 credits. (Y)</td>
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<tr>
<td>SOCI-21000</td>
<td>Women's Lives</td>
<td>SS LA 1</td>
<td>Sociological analysis of womanhood. Consideration of the dynamics of race, class, historical moment, motherhood, and sexuality in defining and structuring women's lives. Feminist method of consciousness raising used in the analysis. Prerequisites: One course in the social sciences. 3 credits. (F-Y)</td>
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<tr>
<td>SOCI-21200</td>
<td>Sociology of Work</td>
<td>SS LA</td>
<td>Introductory survey investigating different kinds of work and their effects on the people who do them and on the society. Students analyze the power relations in work settings; trends in the distribution of jobs; what makes work satisfying; the effects of work on our psychic and physical health; the culture of language, values, songs, and jokes that develop in different work settings; women and work; work and minorities; unemployment; retirement; and more. Prerequisites: One course in the social sciences. 3 credits. (F-Y)</td>
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<tr>
<td>SOCI-21300</td>
<td>Sexual Oppression</td>
<td>SS LA 1</td>
<td>Examination of how sexuality is defined in our society, stressing that it is cultural as well as biological, and often defined in oppressive ways. Students investigate how the intersection of gender with capitalism, race, ethnicity, and sexual orientation has a strong impact on the definition of sexuality. Prerequisites: One course in the social sciences or sophomore standing. 3 credits. (F-S,Y)</td>
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<tr>
<td>SOCI-21400</td>
<td>Definitions of Normality</td>
<td>SS LA 1</td>
<td>Critical, analytical study of what it means to be outside the limits of society, and of the processes that define normality in particular historical moments. Study of exclusion and normality focuses on those defined as “bad” (criminals, delinquents, sexual outsiders, addicts), “mad” (mental patients), “sad” (blind, deaf, physically different), and “awe-fall” (freaks). Prerequisites: SOCI-10100. 3 credits. (F-S,Y)</td>
</tr>
<tr>
<td>SOCI-21500</td>
<td>Introduction to Contemporary Mental Health Issues</td>
<td>SS LA</td>
<td>Gives a basic understanding of some common issues in therapeutic counseling and therapy relationships, including personal and interpersonal power; sexual orientation; loss, separation, and death; cultural and/or racial variables; aging; drug use; and clinical hospital and rehabilitation “treatment” programs. Prerequisites: Six credits of sociology or psychology. 3 credits. (F-S,Y)</td>
</tr>
<tr>
<td>SOCI-21600</td>
<td>Alternative Culture</td>
<td>SS LA</td>
<td>Specifically addresses the problems of the design of alternative social forms using as examples writing about utopias and current explorations in alternative lifestyles. Prerequisites: One course in the social sciences or sophomore standing. 3 credits. (Y)</td>
</tr>
</tbody>
</table>
Focusing on the dynamic relationship between the individual and society and how people, individually and collectively, influence and change society. Beginning with the fundamental and age-old question, “How is social order possible?” examines the ways groups form and elaborate distinctive codes — norms, roles, and values — as well as the ways groups exert control over members’ behavior. This leads to a second set of related questions: What is human nature? How are individuals trained (i.e., socialized) for participation in society and for different positions in society? We see that childhood socialization can be powerful and yet can be overwhelmed by situational forces and by various forms of immediate social influence. Explores interaction in everyday life by focusing on a perspective that sees individuals playing an active role in managing their behavior and their emotions. Prerequisites: One course in the social sciences or sophomore standing. 3 credits. (S,O)

Much of sociological examination focuses on institutions. Those institutions include the family, politics, economics, medicine, education, and religion. Sociologists define religion as the social arrangement involving beliefs and practices of the sacred. Students in this course examine various aspects of the role of religious institutions in society, especially in relation to American society. Prerequisites: One course in the social sciences, 3 credits. (IRR)

This course presents the prominent sociological theories and research about aging and the ways in which the experience of aging is socially constructed. Cross-listed with GERO-22000. Students may not receive credit for both SOCI-22000 and GERO-22000. Prerequisites: SOCI-10100 or GERO-10100. 3 credits. (S,Y)

The Latino or Hispanic experience in the United States from a sociological perspective. Analysis of cultural traits and explanations of social behavior are developed and discussed as a case study within the larger U.S. culture. Social institutions and processes related to Hispanics are studied, such as mass media, language, education, religion, and social inequality. The course covers Hispanics in general, but focuses on the four largest groups: Mexican Americans, Puerto Ricans, Cubans, and Dominicans. Prerequisites: One course in sociology; sophomore standing. 3 credits. (S,E)

Sociological analysis of manhood. Consideration of the dynamics of race, class, historical moment, fatherhood, and sexuality in defining and structuring men’s lives. Sociological concepts such as the social construction of gender, ideology, patriarchy, power, roles, and socialization are employed in developing an analysis of men and masculinity. Prerequisites: One course in the social sciences or sophomore standing. 3 credits. (S,Y)

Exploration of contemporary Jewish life in the United States from a sociocultural perspective, looking at issues in the context of both Jewish and U.S. culture and history. Topics include immigrant background and experiences; ethnicity, class, and politics; responses to discrimination and social inequality; relations with other U.S. ethnic groups; changing family and gender relations; religious movements; secular Jewish culture; responses to international issues (Holocaust, Israel); American Jewish cultural diversity. Cross-listed with ANTH-23610. Students may not receive credit for both SOCI-23610 and ANTH-23610. Prerequisites: SOCI-10100. 3 credits. (Y)

Study of the variety of roles and diversity of forms the family has taken historically and cross-culturally. Stresses that there is no simple, constant definition of what a family is or does: families change as societies do. Students locate the specific economic, political, psychological, demographic, and other factors that both affect and are affected by changing family arrangements, while encountering a wide range of contemporary issues and researching their own family histories. Prerequisites: One course in the social sciences, 3 credits. (F,Y)

Institutions are social arrangements that, more or less effectively, support the interests of one or more groups of people. Social institutions include political, economic, health care, and religious systems, as well as the family and formal education. Organizations are the structural arrangements by which individuals encounter these institutions. Students in this course explore the parallels and differences between various types of institutions and organizations. They examine issues of power and ideology that affect institutional and organizational actors, including those with formal authority, subordinates, and clients. Prerequisites: One course in the social sciences or sophomore standing or above. 3 credits. (F,Y)

Study of the kinds of social relationships generated by technology, exploring the following questions: (1) How do technology and social structures relate to each other? (2) What values, beliefs, and ways of thinking create contexts for new technology? How does technology create different values, beliefs, and ways of interpreting the world? (3) How can new technology present opportunities to create different social organization? Prerequisites: SOCI-10100; three courses in the social sciences, 3 credits. (S,O)

Analysis of the social reality of crime and law, the patterns of criminal behavior, the political economy of crime, and the social organization of law enforcement (police arrest, trial, and sentencing). Crime and law are studied as settings in which social and political decisions are made. Prerequisites: SOCI-20300 or SOCI-21400. 3 credits. (F,Y)

Critical analysis of precursors of contemporary racial ideology, including right of conquest, polygenism, monogenesis, social Darwinism, and eugenics. Analysis of major sociological theories of racial stratification, pluralism, and conflict. Topics include racism, capitalism, and imperialism; biology, culture, and race; the new ethnicities; comparative racial and ethnic stratification; and segmentation in the United States, Latin America, the Caribbean, Africa, and Southeast Asia. Prerequisites: SOCI-10100; three courses in the social sciences, 3 credits. (Y)

Study of personal growth and how humans create and develop the space of intimacy. Theoretical and applied explorations and discussions of how social, personal, and intimate spaces are made with others. Detailed analysis of what human beings do within the space of intimacy once it has been created in action. Readings and discussions center on how humans function within the space of intimacy in terms of love, sexuality, possession, and jealousy; respect, commitment, and trust; promise making, promise keeping, and forgiving; interpersonal conflict, lying, and change; privacy, making boundaries, touching, and affection. Prerequisites: SOCI-10100; three courses in the social sciences, 3 credits. (IRR)

Introduction to fundamental issues of social policy analysis. Issues are viewed within the context of both traditional and emergent theories of inequality, with an emphasis on the limitations of contemporary welfare-state social programs in reducing inequality. Prerequisites: SOCI-10100; three courses in the social sciences, 3 credits. (Y)

Presents theories about how people grow and change while increasing students’ awareness of how they grow, act, and react in a counseling or helping relationship. Study of how helping people relates to broader societal political issues, and how they connect in a political way to the larger society when engaged in counseling or helping relationship. Prerequisites: Three courses in sociology and/or political science and/or psychology, 3 credits. (F,Y)

Provides cognitive and experiential understandings of the function of “helping groups.” Students experience how different kinds of helping groups are appropriate for different objectives, while gaining an understanding of the range of skills and knowledge needed to be a competent group leader. Prerequisites: Three courses in sociology and/or political science and/or psychology, 3 credits. (S,Y)
SOCI-31000 Civil Rights and Social Movements  SS LA
Uses the civil rights movements of the 1960s as a vehicle to explore theories of social justice and inequality. Themes include strategies for social change and conflict necessary for social transformation. Prerequisites: SOCI-10100; two additional courses in the social sciences, one of which must be in the race and ethnic relations concentration. 3 credits. (IRR)

SOCI-31100 Sociological Theory  SS LA
Analysis and evaluation of some theories of society. Development of a critical framework within which to generate hypotheses of social structure and social change. Emphasis is placed on the historical and contextual nature of theory. Prerequisites: Majors and minors only; SOCI-10100; three courses in the social sciences. 3 credits. (F,S,Y)

SOCI-31200 Culture and Society: An International Field Experience  LA SS g
Students meet during the term to analyze social conflicts in a particular country as preparation for a three-week trip following the semester. Focus is on racial and/or ethnic issues as seen through the eyes of residents in the host country. Specific topics vary depending on the host country but usually include internal relations among different groups, themes related to colonization experiences, and the experience of immigrants to the United States. Activities in the host country include class instruction; excursions to archaeological sites, as well as locations of contemporary interest; field trips to museums and colonial areas; and visits to urban and rural sectors. Students are required to pay all travel and trip-related expenses. Prerequisites: SOCI-10100; junior standing or above; 2.50 GPA; permission of instructor. 3 credits. (F or S,Y)

SOCI-31300 Social Inequality  SS LA 1
Socioeconomic aspects of inequality, power, and social mobility in industrial societies. Marxist and functionalist theories are examined, with primary reference to empirical data on the contemporary American stratification system. Prerequisites: SOCI-10100; three courses in the social sciences. 3 credits. (Y)

SOCI-31400 Sociology of Health and Medicine  SS LA
Analysis of contemporary issues of health and medicine using the concepts and theories of medical sociology and critical analysis. Topics include the sick role and labeling perspectives; analysis of practitioners; the social organization of medical care; social epidemiology; and contemporary critical debates in the field. Prerequisites: SOCI-10100; three courses in the social sciences. 3 credits. (S,Y)

SOCI-31600 Women and Health  SS LA
Analysis of the conditions for and experiences of women as patients, from birth control to birthing to aging; analysis of women as health care providers, physicians, nurses, lay and alternative healers; and analysis of the women's health care movement. Examination of these issues within a broad historical and comparative framework (e.g., 19th-century feminism, 20th-century third-world activism). Prerequisites: Three courses in the social sciences. 3 credits. (S,Y)

SOCI-31800 Political Sociology  SS LA
Explores power and ideology at three levels: (1) the micro level of face-to-face interactions and small groups; (2) the intermediate level of organizations such as local and regional governments, mental institutions, and schools; and (3) the macro level of national societies. Considers how power systems are maintained and the conditions under which they are challenged and changed. Prerequisites: SOCI-10100; two other courses in sociology or politics. 3 credits. (S,O)

SOCI-32200 Forms of Punishment  SS LA
Examination of punishment and its varied forms as defined by the social, political, and economic contexts within which they emerge. Students study asylums, jails, prisons, and other institutional forms of punishment as well as all nonvoluntary forms of “treatment.” Not limited to the study of stone walls and iron bars, as the architecture of power and punishment takes many forms. Prerequisites: SOCI-20300. 3 credits. (Y)

SOCI-32300 Family Violence  SS LA
Causes and manifestations of violence and abuse in the home. Explores wife beating, child abuse, sibling-related attacks, sexual abuse of children, incest, husband abuse, marital rape, and premarital violence. Students also delineate the institutions that breed and perpetuate this problem, as well as treatment approaches, prevention, and community responses. Prerequisites: SOCI-10100; two additional courses in the social sciences. 3 credits. (Y)

SOCI-32400 Sociology of Violence  SS LA
Examines theoretical frameworks that attempt to illuminate the origins of violence, interpersonal, institutional, and collective forms of violence are analyzed; specific types of violence are studied in depth. Prerequisites: SOCI-10100; two additional courses in the social sciences. 3 credits. (IRR)

SOCI-32500 Race, Class, and Gender  SS LA
Shows how to analyze various issues affecting race, class, and gender in the United States, and helps students develop the ability to examine and analyze the economic, social, political, and cultural roles of members of our society, focusing on the intersection of race, class, and gender. Prerequisites: SOCI-10100; two additional courses in the social sciences. 3 credits. (IRR)

SOCI-32700 Work and the Family  SS LA
Analysis of the impact of work on family dynamics and the impact of family factors on work orientation. Topics include the roles and socialization of provider and homemaker, typologies of work and of family experience, and work and family in various historical periods and classes. Focus on dual-career families and policies regarding work and family. Prerequisites: SOCI-10100; two additional courses in the social sciences. 3 credits. (S,IRR)

Level-3 Selected Topics  SS LA
Courses offered occasionally or experimentally within the concentration. Prerequisites: SOCI-10100; two additional social science courses. 3 credits. (F,S,Y)

SOCI-33000 Selected Topics in Social Medicine  SS LA
Prerequisites: SOCI-10100; two additional courses in the social sciences. 3 credits. (F-S,Y)

SOCI-33100 Selected Topics in Social Psychology  SS LA
Prerequisites: SOCI-10100; two additional courses in the social sciences. 3 credits. (S,Y)

SOCI-33200 Selected Topics in Criminal and Juvenile Justice Studies  SS LA
Prerequisites: SOCI-10100; two additional courses in the social sciences. 3 credits. (F-S,Y)

SOCI-33300 Selected Topics in Mental Health  SS LA
Prerequisites: SOCI-10100; two additional courses in the social sciences. 3 credits. (F-S,Y)

SOCI-33400 Selected Topics in Social Institutions and Organizations  SS LA
Prerequisites: SOCI-10100; two additional courses in the social sciences. 3 credits. (F-S,Y)

SOCI-34100 Minorities in the United Kingdom  SS LA
A study of ethnic groups in the U.K. (including Indian, black, Cypriot, Irish, and Jewish). The course examines patterns of immigration, integration, and conflict. Comparisons are drawn with minorities in other countries. Offered only through the London Center. Prerequisites: Three courses in the social sciences. 3 credits. (F,S,Y)

SOCI-34300 The Sociology of Gender  SS LA
Examination of the social processes through which biological sex is transformed and institutionalized in cultural relationships known as “gender.” Students ask what the societal causes and consequences are of “acting like a lady” and “being a man” and investigate how gender is constructed, reconstructed, and deconstructed through popular culture, family, and work arrangements; personal relationships; organizations; and social movements. Prerequisites: SOCI-10100; two of the following: SOCI-21000, SOCI-21300, SOCI-22900. 3 credits. (F,Y)

SOCI-34600 Methods of Social Work Practice  SS LA
Prerequisites: SOCI-10100; two additional social science courses. 3 credits. (F,S,Y)

SOCI-34700 Supervised Fieldwork  NLA
Designed to be taken concurrently with SOCI-34600, this course provides students with a fieldwork experience that augments and clarifies classroom material. There is a two-hour-per-week group supervision meeting, as well as individual supervision, focusing on skills and specific situations encountered during fieldwork placements. Corequisites: SOCI-34600. 3 credits. (Y)

SOCI-35100 Sociology of Education  SS LA
This course examines the role of education and the structure of educational institutions (including colleges and universities) in American society. The process by which skills, cultural norms, and cultural views are transmitted is studied, as well as the distribution of educational opportunity. These issues are dealt with at the level of the classroom, the school, and the community. The latter part of the course focuses on the creation of change in the educational system. Prerequisites: SOCI-10100; two courses in the social sciences. 3 credits. (F,IRR)

SOCI-35300 Research Methods I  SS LA
Introduces students to the research methods used by sociologists. Topics include theories about causation; quantitative and qualitative methods of collecting and analyzing data; and the ethics and politics of social science research. Students conduct several small research projects to practice each of the methods introduced in the course. Students also review basic statistical and quantitative analysis. Students take the first steps in conducting an original research project by formulating a research question and reviewing the relevant literature. Prerequisites: SOCI-10100; two other sociology courses; MATH-15500, MATH-24300, MATH-24400, or PSYC-20700. 3 credits. (F,S,Y)
SOCI-35400 Research Methods II
A continuation of SOCI-35300. Students are guided through an original research project in which they prepare a research plan, including choosing a feasible method appropriate to their topic, and collect, analyze, and interpret data. Students also are taught more sophisticated approaches to statistical and quantitative analysis than in Research Methods I. Prerequisites: SOCI-35300. 3 credits. (F-S,Y)

SOCI-36100 Social Welfare and Social Work
Analysis of the role of the social worker as an agent of change. Development of a knowledge of the principles, values, and methods of social work. Students may volunteer work in the community and are aided in securing summer fieldwork placement if desired. Prerequisites: One course in psychology; a social problems course; junior standing; permission of instructor. 3 credits. (F,Y)

SOCI-37000 Counseling the Older Adult
Combines theory and practice of basic counseling skills with information about issues faced by older adults and their families. Analyzes the lives of today's older adults within the frameworks of social institutions and race, class, and gender. Prerequisites: SOCI-10100 or GERO-10100; at least one of the following: SOCI-21500, SOCI-30800, SOCI-30900, SOCI-34600, PSYC-36600, ANTH-34000, TRLS-23800, HLTH-24000, OTBS-48000; sophomore standing or above. 3 credits. (S,Y)

SOCI-37600 Poverty
Examination of poverty in contemporary United States from three perspectives: (1) the ethnographic perspective — understanding poverty through anthropological case studies, which is the emphasis in the course; (2) the holistic perspective — examining the social and cultural context in which poverty exists, searching for causal factors; and (3) the applied perspective — evaluating policy and programs for dealing with or eliminating poverty. Cross-listed with ANTH-37600. Students may not receive credit for both SOCI-37600 and ANTH-37600. Prerequisites: SOCI-10100; two courses in the social sciences. 3 credits. (Y)

SOCI-40100 Community Organizing
Designed to sensitize students to some of the recurrent tasks faced by community organizers in their attempts to develop task-oriented groups and maintain group participation and effectiveness. Exposes students to practical fieldwork situations in community service in which classroom instruction, information, and insights are tested and improved. Prerequisites: SOCI-10100; three courses in the social sciences. 3 credits. (IRR)

SOCI-40200 Society and Nature
Explores the assertion that the central activity of the individual and collectivities of individuals must be ecological. Students are asked to investigate their capacity to be ecologically “knowing.” What does it mean to define our relationships to the places in which we live? Where is this place? What is a relationship? What does it mean to “know” or to “experience” ecologically? Prerequisites: SOCI-10100; ANTH-10400; junior or senior standing. 3 credits. (F,Y)

SOCI-41200 Seminar: The National Health System
A study of the history, development, and function of the national health system in the context of the welfare state, education, housing, class structure, income, and politics in Great Britain. Comparison of the American and British health care schemes. Offered only through the London Center. 3 credits. (F-S,Y)

SOCI-41400 Seminar: Mental Health Intervention with Special Populations
An advanced seminar that examines, from a sociological perspective, the form and content of therapeutic interventions with unique populations such as women, African Americans, individuals with disabilities, ethnic minorities, the aged, and homosexuals. The intersection of sex, class, racial, and ethnic factors relating to both clients and clinicians is also a major focus. A sociological analysis of major issues relevant to these special populations is stressed so that students can begin to identify areas of concern, skill requirements, structural designs, and specific areas of knowledge important in creating alternative intervention models. Prerequisites: SOCI-10100; at least four other sociology courses, including two at level 3. 3 credits. (F-S,Y)

SOCI-41500 Seminar: The Police
Explores both the problems for society of policing its members and the social meaning of policing as experienced by individuals. Topics include the work of the police, relationships with the legal system, discretion and partiality, and current controversies about undercover operations, the use of deadly force, police crime, etc. Prerequisites: SOCI-10100; three upper-level sociology courses. 3 credits. (Y)

SOCI-41600 Seminar: Treatment and Prevention of Family Violence
A follow-up to SOCI-32300 Family Violence; explores the international issues of abuse of women and children, as well as how service providers can deal with abuse within the family. Such problems as marital rape, elder abuse, child sexual abuse, wife battering, and gay and lesbian battering are looked at through the prism of treatment and prevention. Social policy issues are explored in depth. Prerequisites: SOCI-32300. 3 credits. (IRR)

SOCI-41800 Seminar: Sociology of Law
The domain of our study is the law and the legal order. The relationship to the legal system, both individual rules and complex of the legal system. We study the law on the books and the law as how society, in turn, affects law. We develop an analysis that is explicitly policy oriented. Such an analysis explains the relationship among law, the legal order, and society, and teaches us how to use the legal order to solve existential difficulties. Prerequisites: SOCI-32300. 3 credits. (IRR)

SOCI-41900 Seminar: Women in the Third World
A seminar that exposes students to various issues affecting women in the third world. It helps broaden students’ perspective and increase their awareness of issues such as motherhood, oppression, submission, sexuality, leadership, and feminism in the third world. Prerequisites: SOCI-10100; three courses in the social sciences. 3 credits. (Y)

SOCI-42100 Seminar: Race, Racism, and the Law
A seminar in which students synthesize much of what they have learned through the years about the development of racial relations in the United States. The role of race as a social concept is analyzed in conjunction with the social institutions of racism and law. Sociological theories and contemporary research findings are discussed and analyzed in the context of de jure and de facto segregation and discrimination. This course promotes understanding of the role that law has played in the support of racism in this country, as well as in the elimination of segregation and racial subordination. Prerequisites: SOCI-10100; one course in the race and ethnic relations concentration; two additional courses in the social sciences. 3 credits. (Y)

SOCI-42200 Seminar: Family Forms
The family is very diverse. There are no specific and regular forms to family structure. This seminar explores various forms: gay and lesbian families, single-parent families, dual-career families, multiracial families. Students have an opportunity to interview and present on these varying structures. Prerequisites: SOCI-10100; three additional courses in the social sciences. 3 credits. (IRR)

SOCI-42500 Seminar: Sociological Feminist Theory
A summary of various approaches to feminist theory within sociology: liberal, radical, socialist, ecofeminist, and third-wave feminist. Using a basic understanding of these perspectives, the course explores various developments in feminist theory within sociology or responses from each approach to a particular issue. Prerequisites: Three courses in the women’s studies minor and/or in the gender concentration in sociology; junior standing or above. 3 credits. (Y)

SOCI-42700 Seminar: Class, Gender, and Work
A seminar on the complex interrelationship of class and gender in a variety of work settings. Topics include reactions of men to women working as peers, gender-specific class consciousness of women workers, and ways that gender-class factors influence supervisor-employee relationships. Prerequisites: SOCI-10100; three additional courses in the social sciences. 3 credits. (IRR)

SOCI-42800 Simulating Social Processes
Simulations and exercises have wide application in teaching research, policy planning, and sensitivity training. This course examines the theory behind simulations and uses simulations, games, and exercises to examine several key social issues including organizing for social change, policy planning, stratification, power, racism, and sexism. Students design, run, and debrief social simulations. Prerequisites: SOCI-10100; three upper-level courses in sociology or another social science. 3 credits. (S,Y)

Level-4 Selected Topics
Courses offered occasionally or experimentally within the concentration. Prerequisites: SOCI-10100; three upper-level social science courses. 3 credits. (F-S,Y)

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Independent Studies in Gender Studies

Instructors of courses that use teaching assistants. The format includes didactic half-day workshops during the semester. The seminar is team-taught by the instructors and larger social forces and historical conditions. The seminar meets as four presentations of theoretical material and discussion, along with focused papers on the reading. The required reading must be completed before the seminar workshop. In the workshop at the end of the semester, the text material is reviewed with analysis of its application in the teaching assistance experience. Prerequisites: SOCI-10100; three upper-level sociology courses; permission of instructor. 1 credit. (F-S, Y)

SOCI-48100 Practicum in Teaching Assistance

Leadership skills for leading educational discussion groups. Open to students who are acting as teaching assistants in sociology courses. Prerequisites: SOCI-10100; three upper-level sociology courses; permission of instructor. Corequisites: SOCI-48000. 2 credits. (F-S, Y)

SOCI-48200 Research Methods Teaching Assistant

Teaching assistants tutor students about topics in the research methods courses. TAs work individually and with small groups of students to help them pursue an original research project. This includes helping students select topics; choose an appropriate method of research; design research tools; and collect, analyze, and present data and findings. TAs assist with class exercises. TAs also comment on drafts of student research papers. Students may repeat the experience one time but may not receive a total of more than 4 credits. Prerequisites: SOCI-35400; permission of instructor. 1–4 credits. (F-S, Y)

SOCI-48800 Counseling the Older Adult: Research

Students examine the issues faced by older adults and their families, analyzing the lives of today’s older adults within the frameworks of social institutions and of race, class, and gender. Students also learn the theories of basic counseling and related skills by applying these theories and skills when working with older adults. The course covers the same content as SOCI-37000 Counseling the Older Adult, but with an additional research element involving the published literature and sociological theory. Students may not receive credit for both SOCI-37000 and SOCI-48800. Prerequisites: Sociology major or minor; junior standing; SOCI-10100 or GERO-10100; one of the following: SOCI-21500, SOCI-34900, SOCI-36000, SOCI-36600, ANTH-23800, HLTH-24000, or OTBS-48000. 3 credits. (S, Y)

SOCI-49000–SOCI-49800 Internship: Sociology

Internships arranged individually at the student’s request with an instructor and a sponsoring agency, and with departmental approval. See information on internships, p. 117. Also offered through the London Center by special permission. Prerequisites: Three courses in the social sciences. Variable credit. (F-S)

SOCI-49100 Internship in Clinical Sociology

SOCI-49100 Internship in Gender Studies

SOCI-49200 Internship in Criminal and Juvenile Justice

SOCI-49300 Internship in Race and Ethnic Relations

SOCI-49400 Internship in Sociology of Family and Relationships

SOCI-49500 Internship in Social Institutions and Organizations

SOCI-49800 Internship in Sociology

SOCI-49800 Internship in Sociology

Students arrange for internships in local agencies. Students meet as a group each week to share experiences and report on their progress. Students meet individually with the course professor on a regular basis to discuss their work. Prerequisites: Sociology majors or minors who have completed three-quarters of the major or minor; permission of instructor. 2–6 credits. (F-S, Y)

SOCI-49901–SOCI-49901 Internship Course

Students arrange for internships in local agencies. Students meet as a group each week to share experiences and report on their progress. Students meet individually with the course professor on a regular basis to discuss their work. Prerequisites: Sociology majors or minors who have completed three-quarters of the major or minor; permission of instructor. 2–6 credits. (F-S, Y)

SPEECH COMMUNICATION

Bachelor of Arts, Bachelor of Science

Laurie Arliss, Professor and Chair

Speech communication focuses on how, why, and with what effects people communicate through spoken language and associated nonverbal messages. Just as politics majors are concerned with political behavior and economics majors with economic behavior, the student of speech communication is concerned with communicative behavior. A major in speech communication develops competence in theoretical analysis and practical implementation.
of communication. He or she develops skills in small group, public, and interpersonal communication, and explores various topics such as leadership, argument, cultural variations, and social change.

Requirements for Honors in Speech Communication
Departmental honors are awarded based on a senior project done under the sponsorship of a faculty member and its successful defense in an oral examination conducted by a faculty committee. A cumulative GPA of 3.50 is required. Students must propose the project by the end of the penultimate semester before graduation and must complete it by the middle of the semester they plan to graduate.

Forensics Program
The forensics program and its organization, the Forensics Association, enable students to gain experience in all forensics activities. The association strives to promote the highest standards of oral argument and other communication skills. It sponsors events on campus and represents the College at intercollegiate events. Ithaca College is home to the New York State Alpha chapter of Pi Kappa Delta, the national honorary forensics society. Contact the director of forensics for more information.

Requirements for the Major in Speech Communication — B.A.
Credits in the major

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<td>SPCM-11000</td>
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<td>SPCM-11500</td>
<td>Business and Professional Communication</td>
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<td>SPCM-12000</td>
<td>Communication, Culture, and Rhetoric</td>
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<td>SPCM-14000</td>
<td>Small Group Communication</td>
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<td>SPCM-14900</td>
<td>Fundamentals of Interpersonal Communication</td>
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<td>SPCM-21500</td>
<td>Argumentation and Debate</td>
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<td>SPCM-23000</td>
<td>Analysis and Performance of Literature</td>
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Select 12 credits in applications of speech communication

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Total, credits in the major: 18

Select 6 credits in theories of speech communication

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<td>Modern and Contemporary Theories of Rhetoric (3)</td>
<td></td>
</tr>
<tr>
<td>SPCM-33300</td>
<td>Language and Social Interaction (3)</td>
<td></td>
</tr>
<tr>
<td>SPCM-45900</td>
<td>Seminar in Communication Theory (3)</td>
<td></td>
</tr>
</tbody>
</table>

Total, theories of speech communication: 6

Select 3 credits in research methods in speech communication

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPCM-32800</td>
<td>Uses and Methods of Communication Criticism (3)</td>
<td></td>
</tr>
<tr>
<td>SPCM-34100</td>
<td>Communication Research Methods (3)</td>
<td></td>
</tr>
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</table>

Total, research methods in speech communication: 3

Select 6 credits in electives in speech communication

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
</table>

At least 3 credits must be at level 3 or 4, and 1 credit must be taken at level 4.

Total, electives in speech communication: 6

Unrestricted electives

Total B.A. in speech communication: 75

Speech communication majors have 75 elective credits, but they are encouraged to elect at least one 18–27 credit sequence outside the department as a minor concentration or cognate area. No more than two grades below a C (2.00) will be accepted in courses toward fulfilling requirements of the major.

Minor in Speech Communication
A minor concentration in speech communication is offered to provide opportunities for students to develop a systematic knowledge of the discipline. Minors must be declared through consultation with the departmental chair. Minor advisers will guide students in course selection.

Requirements for the minor in speech communication

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPCM-11000</td>
<td>Public Communication</td>
<td></td>
</tr>
<tr>
<td>SPCM-11500</td>
<td>Business and Professional Communication</td>
<td></td>
</tr>
<tr>
<td>SPCM-12000</td>
<td>Communication, Culture, and Rhetoric</td>
<td></td>
</tr>
<tr>
<td>SPCM-14000</td>
<td>Small Group Communication</td>
<td></td>
</tr>
<tr>
<td>SPCM-14900</td>
<td>Fundamentals of Interpersonal Communication</td>
<td></td>
</tr>
<tr>
<td>SPCM-21500</td>
<td>Argumentation and Debate</td>
<td></td>
</tr>
<tr>
<td>SPCM-23000</td>
<td>Analysis and Performance of Literature</td>
<td></td>
</tr>
</tbody>
</table>

Total, minor in speech communication: 18

SPEECH COMMUNICATION COURSES

Course numbering system
Speech communication courses use the following numbering system for digits following the prefix (SPCM):

First Digit — Level
1 Freshman
2 Freshman and sophomore
3 Junior
4 Senior

Second Digit — Area of Study
1 Public communication (theory)
2 Public communication (practice)
3 Oral interpretation
4 Interpersonal communication
5 Communication theory
6 Selected topics
7 Independent work

SPCM-11000 Public Communication HU LA 3a
Exposure to a variety of speaking situations as a means to more comfortable, effective communication. Brief unit on language followed by exercises in various kinds of influential speaking. Emphasis is placed on the ethical responsibilities of the speaker and on the need for a critical posture by both speaker and listener. SPCM-11000 may not be taken if student has received credit for SPCM-11500. 3 credits. (F-S,Y)

SPCM-11500 Business and Professional Communication HU LA
Study of public communication skills used in business and professional settings; emphasis is placed on presentational speaking and motive analysis; opportunity for individualized skill development provided. SPCM-11500 may not be taken if student has received credit for SPCM-11000. 3 credits. (F-S,Y)

SPCM-12000 Communication, Culture, and Rhetoric HU LA 1
Introduction to fundamentals of rhetorical theory and rhetorical approaches to the study of communication. Emphasis is placed on the discovery and critical analysis of the rhetorical impulse in a variety of forms of persuasion. Includes a basic survey of rhetorical forms such as speeches, essays, advertising, films, and television. 3 credits. (F,Y)

SPCM-12400 Courtrooms and Communication HU LA 1
An investigation of trials and legal advocacy as communication phenomena. The course includes observations of live criminal trials and participation in mock trials. 3 credits. (F,Y)

SPCM-13200 Storytelling FA LA 3b
Introduction to the practice, history, and theories of storytelling as a performing art. Emphasis is placed on cultural dimensions of oral/folk narrative through study of tales and traditions from different cultures and ethnicities. Students examine a variety of situations and functions for storytelling (e.g., bardic, theatrical, religious). 3 credits. (F,Y)

SPCM-14000 Small Group Communication SS LA 1
Examination of the dynamics of small group communication with a focus on problem-solving groups. Topics include leadership, cohesiveness, norms, roles, conflict, problem-solving techniques, conformity and deviance, networks, and listening skills. 3 credits. (F-S,Y)
**Speech Communication Courses**

**SPCM-14900 Fundamentals of Interpersonal Communication**  SS LA 1
Introduction to basic principles of interpersonal communication. Presents a theoretical perspective integrated with activities in and out of the classroom. Topics include interpersonal perception, language, nonverbal communication, self-concept, social roles, conflict management, and dynamics of intimacy. 3 credits. (F-S-Y)

**SPCM-15000 Introduction to Communication Theory**  SS LA 1
Survey course studying a range of theoretical frameworks. Included are the processes of communication (such as attitudes, listening, language, and nonverbal); contexts of communication (such as interpersonal, small group, organizational, public, mass, and intercultural); and methods of research. 3 credits. (F-S-Y)

**SPCM-21500 Argumentation and Debate**  HU LA
Study of the philosophy of argument and logic in persuasion, debate forms, construction of the debate case, and responsibility for reasoned discourse in a society. Prerequisites: Two courses in the humanities and/or social sciences. 3 credits. (F-Y)

**SPCM-21800 Speech Communication for the Classroom Teacher**  HU LA
Familiarizes students with communication in the classroom from the standpoint of the teacher. Students are exposed to a variety of communication situations, such as lecture, discussion, and simulation, that typify the educational setting, and are required to demonstrate proficiency in directing and critiquing in-class experiences of various types. Designed for nonmajors. Prerequisites: 6 credits of coursework in major academic area. 3 credits. (S,E)

**SPCM-21900 Speech Communication Practicum**  U NLA
Practical experience in speech on campus, at the intercollegiate level, and in the community at large; debate and legislative assemblies; discussion, oratory, impromptu, and extemporaneous speaking; oral interpretation and readers’ theater. The instructor will designate the minimum activities required to receive credit. May be repeated for a total of 8 credits. Prerequisites: Permission of instructor; participation in one of the department’s cocurricular programs (such as debate or readers’ theater). Pass/Fail only. 1 credit. (F-S-Y)

**SPCM-22500 Health Communication**  SS LA
Introduction to the field of health communication, including origins and development. Presents theories of health behavior and communication and how they relate to one another in practice. Examines communication between health professionals and clients, and the roles media play in the health care industry and the delivery of health services. Cross-listed with HPS-22500. A student may not receive credit for both HPS-22500 and SPCM-22500. Prerequisites: Sophomore standing or above. 3 credits. (F-Y)

**SPCM-23000 Analysis and Performance of Literature**  FA LA 3a, 3b
Introduction to the art of oral interpretation of literature, including communicative and literary analysis, oral analysis, and performance criticism. Survey of basic performance and analysis techniques for fictional prose and poetry. Prerequisites: Two courses in the humanities and/or social sciences. 3 credits. (S,Y)

**SPCM-24300 Interviewing**  SS LA
Focuses on the theory and practice of interviewing. Applies communication theories during several classroom and field interviewing opportunities. Several opportunities to apply communication theories to classroom and field interviewing experiences. Prerequisites: Sophomore standing. 3 credits. (F-Y)

**SPCM-28900 Selected Topics**  SS/FA/HU LA
Topics of current interest. Examples include nonverbal communication, campaign rhetoric, listening, intrapersonal communication, and legislative and parliamentary procedure. May be repeated for credit when topics vary. Prerequisites: Three courses in the humanities and/or social sciences; additional prerequisites as appropriate to the topic. 3 credits. (IRR)

**SPCM-29700 Directed Readings**  HU/SS LA
Study of an extensive selection of literature, compiled by an instructor, on a topic of special interest. This literature should further student development within a relevant topic area that is not otherwise covered in an available course. Offered on demand only. Prerequisites: Three credits in speech communication; sophomore standing; approval of the speech communication faculty. 1–4 credits.

**SPCM-31100 Advanced Public Communication**  HU LA 3a
Advanced public speaking, with three complementary goals: (1) to develop a professional level of oral skill before a live audience; (2) to practice advanced communication skills in the public sphere as speakers, speechwriters, and consultants; and (3) to be exposed to a variety of speech types and criteria by which speeches can be judged. Prerequisites: SPCM-11000 or SPCM-11500; three courses in the humanities and/or social sciences. 3 credits. (Y)

**SPCM-32400 Rhetoric and Social Order**  SS LA
Study of the rhetoric and persuasion of social groups. Focuses on communication strategies used by leaders and/or members of social groups in advancing social change, and the communication strategies of social control in response. Prerequisites: Three courses in the humanities and/or social sciences. 3 credits. (IRR)

**SPCM-32600 Classical Theories of Rhetoric**  HU LA 3a, h
Study of various theories of persuasion from the Platonic era through the Roman-Christian period (Plato to St. Augustine). Prerequisites: SPCM-11000, SPCM-11500, or SPCM-15000; junior standing. 3 credits. (F,Y)

**SPCM-32700 Modern and Contemporary Theories of Rhetoric**  HU LA
Rhetorical theories offer a particular way of exploring the practice of communication. This seminar addresses one or more theoretical themes in the rhetorical approach to communication. Objectives include understanding the nature and value of communication theories in the modern world, as well as being able to put theories into practice. Prerequisites: SPCM-11000 or SPCM-12000; junior standing. 3 credits. (S,Y)

**SPCM-32800 The Uses and Methods of Communication Criticism**  HU LA
Advanced course that approaches criticism, one of the primary research methods in this field, as a way of knowing comparable to scientific and social-scientific ways of knowing. Addresses different methods of criticism through student-driven projects and presentation. Considers practical uses of criticism and reflects on the philosophical assumptions critics make. Prerequisites: SPCM-12000; junior standing. 3 credits. (F-Y)

**SPCM-33200 Folklore and Cultural Performances**  FA LA
Survey of the major forms and traditions of folklore and cultural performances, ranging from everyday conversations to rituals and celebrations. Emphasis is placed on the analysis of aesthetic, rhetorical, and group dimensions of folkloric/oral performances. Narrative forms to be studied include personal storytelling, jokes and humor, legends, and tales. Larger performance forms are also included, such as spectacles, holidays, and festivals. Prerequisites: Nine credits of courses from one or more of the following departments: anthropology, cinema and photography, English, sociology, speech communication, theater arts. 3 credits. (IRR)

**SPCM-33300 Analysis and Performance of Prose**  FA LA
Study of analysis, cutting, adaptation, and performance techniques appropriate to oral interpretation of expository, descriptive, and narrative prose literature. Solo and ensemble performance experience, and performance evaluation experience. Prerequisites: SPCM-23000, or three courses in speech communication and/or theater. 3 credits. (F-E)

**SPCM-33400 Group Performance of Literature**  FA LA
Study of the principles and practice of readers’ theater as a creative and presentational art form. Includes study of adaptation and compilation scripting; direction and performance of ensemble interpretation projects. Prerequisites: SPCM-23000, or three courses in speech communication and/or theater. 3 credits. (IRR)

**SPCM-33500 Analysis and Performance of Poetry**  FA LA
Exploration of vocal and performance behavior appropriate to poems written in the lyric, epic, and dramatic modes; evaluation of the student’s oral performance ranging from everyday conversations to rituals and celebrations. Emphasis is placed on the analysis of aesthetic, rhetorical, and group dimensions of folkloric/oral performances. Narrative forms to be studied include personal storytelling, jokes and humor, legends, and tales. Larger performance forms are also included, such as spectacles, holidays, and festivals. Prerequisites: Nine credits of courses from one or more of the following departments: anthropology, cinema and photography, English, sociology, speech communication, theater arts. 3 credits. (IRR)

**SPCM-34100 Communication Research Methods**  SS LA
Prepares students to be competent and critical readers of published and unpublished reports of scientific research on communication phenomena. Emphasizes critical evaluation of communication research literature based on both qualitative and quantitative methods. Topics include the philosophy of social science, design of research, problems of measurement, basic statistical analysis, participant observation, interaction analysis, interviews, narrative analysis, scientific arguments, and ethical issues in research. Prerequisites: Three courses in speech communication; junior standing. 3 credits. (S,Y)
SPCM-34600 Gender and Interpersonal Communication SS LA 1
Advanced theoretical examination of interpersonal communication, concentrating on nonverbal communication, language, power, gender, and characteristics of and problems in interpersonal relationships. Prerequisites: SPCM-14000 or SPCM-14900; two courses in the social sciences; sophomore standing. 3 credits. (F,Y)

SPCM-34700 Intercultural Communication SS LA 1, g
Introduces speech communication processes in intercultural, interethnic, and international contexts. Examines students' own cultural assumptions and presents other cultural groups' patterns of thought, perception, and communication, and examines students' own cultural assumptions. Prerequisites: SPCM-14000; SPCM-14900; three additional credits in speech communication. 3 credits. (F,O)

SPCM-34800 Family Communication SS LA 1
The family as a communication perspective. Studies the dominant theories and methodologies that illuminate communication about and within the contemporary American family. Emphasis is placed on the central role communication plays in determining expectations and realities in a diversity of situations (e.g., nuclear, extended, single-parent, blended, voluntarily childless, or gay/lesbian-led families). Prerequisites: SPCM-14000 or SPCM-14900; two courses in the social sciences; sophomore standing. 3 credits. (S,E)

SPCM-35300 Language and Social Interaction HU LA
Studies how symbolization reflects and generates a particular view of reality. Emphasizes how the various methods of describing the world determine the orientation a person has toward the world. Focus is on the reality structures of American language. Prerequisites: Three courses in speech communication; junior standing. 3 credits. (F,Y)

SPCM-38900 Selected Topics SS/FA/HU LA
Topics of current interest. Examples include small group dynamics, research methodology, interracial/intercultural communication, conflict management, and male/female relationships. May be repeated for credit for selected topics on different subjects. Prerequisites: Three courses in the humanities and social sciences; additional prerequisites as appropriate to the topic. 3 credits. (IRR)

SPCM-39500 Internship NLA
Work-study project designed by the student in consultation with a sponsoring faculty member and a cooperating practicing professional. The proposal must define the work to be done, the theories to be explored, and the student's plan for submitting a written report based on his or her experience. Offered on demand only. No more than 6 credits may be applied toward the major. Prerequisites: Speech communication major; cumulative GPA of 2.30 and 3.00 in the major; permission of speech communication faculty. Variable credit, up to 12 credits.

SPCM-42900 Directed Research LA
Research project arranged at the student's request with an individual instructor in speech communication. Offered on demand only. No more than 3 credits may be applied toward the major. Prerequisites: SPCM-22900; speech communication major or minor; cumulative GPA of 2.30 and 3.00 in the major; junior standing; permission of speech communication faculty. 1–4 credits.

SPCM-45100 Communication and Social Influence SS LA
Examination of current theories of social influence and their relationship to communication. Focuses on analyzing current persuasion practices in terms of theories such as social learning and self-persuasion, attribution theory, information processing, and social change. Prerequisites: SPCM-14000; SPCM-14900; one level-3 or above course identified as an "applications in speech communication" course. 3 credits. (S,Y)

SPCM-45900 Seminar in Communication Theory SS LA
Detailed study of special topics. 3 credits. (IRR)

SPCM-49500 Internship NLA
Work-study project designed by the student in consultation with a sponsoring faculty member and a cooperating practicing professional. The proposal must define the work to be done, the theories to be explored, and the student's plan for submitting a written report based on his or her experience. Offered on demand only. No more than 6 credits may be applied toward the major. Prerequisites: Speech communication major; cumulative GPA of 2.30 and 3.00 in the major; permission of speech communication faculty. Variable credit, up to 12 credits.

SPCM-49800 Directed Research LA
Research project arranged at the student's request with an individual instructor in speech communication. Offered on demand only. No more than 3 credits may be applied toward the major. Prerequisites: SPCM-22900; speech communication major or minor; cumulative GPA of 2.30 and 3.00 in the major; junior standing; permission of speech communication faculty. 1–4 credits.

SPCM-49900 Independent Study U LA
Special reading and research under the supervision of the department. Must not duplicate standard coursework. Application must be made to the speech communication faculty before registration for the semester in which the student is to be undertaken. Offered on demand only. May be repeated for a total of 6 credits. Prerequisites: Cumulative GPA of 2.30 and 3.00 in the major; junior or senior standing; permission of speech communication faculty. 1–4 credits.

THEATER ARTS

Bachelor of Arts, Bachelor of Fine Arts, Bachelor of Science
Lee Byron, Associate Professor, Chair, and Director of Theater

The Department of Theatre Arts offers curricula leading to the bachelor of arts in drama, the bachelor of science in theater arts management, and the bachelor of fine arts in acting, musical theater, or theatrical production arts (with concentrations in theatrical design or theater technology). The B.F.A. degree in musical theater is offered jointly by the Department of Theatre Arts and the School of Music. It is administered by the Department of Theatre Arts.

The bachelor of arts degree provides a liberal arts approach to theater and allows the student maximum flexibility in preparing for advanced study and exploring a wide variety of career opportunities in the theater.

The bachelor of science degree combines intensive training in all aspects of theater management with a well-rounded education in the liberal arts. This is accomplished through formal class work, internships, and required co-curricular practica. A significant part of the learning experience in this major is accomplished through supervised work in the management operations of the theater arts department. Theater arts management majors must expect to commit a minimum of 600 contact hours to these duties.

The bachelor of fine arts degree is performance-based and designed to prepare students for careers within the area of their major. This degree features highly individualized instruction, and students are given the opportunity to act, sing, dance, and learn the details of set design and construction, lighting, sound, and costuming.

Admission to these degrees requires an audition or interview with members of the theater arts faculty. All B.F.A. majors participate in departmental review processes. These reviews of performance are presented to the faculty and determine the student’s eligibility to continue in the program.

London Program

The Department of Theatre Arts participates in the London Center program with a 9-credit core program and additional credits available in British drama. Please refer to the “International Programs” section on p. 264 or see THPA-36700 Interrelationships: British Drama and Cultural Life in the course descriptions, under “Theater History, Theory, Playwriting.”
Requirements for the Major in Drama — B.A.

The student is admitted to the major following a successful interview with members of the theater faculty.

Credits in the major

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THPA-10000</td>
<td>Theater Production</td>
<td>3</td>
</tr>
<tr>
<td>THPA-10200</td>
<td>Stagecraft</td>
<td>2</td>
</tr>
<tr>
<td>THPA-11200</td>
<td>Introduction to Theatrical Design</td>
<td>3</td>
</tr>
<tr>
<td>THPA-13100–13200</td>
<td>Acting I and Acting II</td>
<td>6</td>
</tr>
<tr>
<td>THPA-16100</td>
<td>Script Analysis for the Theater</td>
<td>3</td>
</tr>
<tr>
<td>THPA-36100–36200</td>
<td>History of the Theater</td>
<td>6</td>
</tr>
<tr>
<td>THPA-36400</td>
<td>Aesthetics and Criticism or Theories of Comedy and Tragedy or</td>
<td>3</td>
</tr>
<tr>
<td>THPA-45100</td>
<td>Senior Seminar</td>
<td>3</td>
</tr>
<tr>
<td>THPA-37100</td>
<td>Directing</td>
<td>3</td>
</tr>
<tr>
<td>THPA-38100</td>
<td>Theater Organization and Management</td>
<td>3</td>
</tr>
<tr>
<td>THPA-46100</td>
<td>Contemporary Developments in Theater</td>
<td>35</td>
</tr>
</tbody>
</table>

Total, credits in the major: 189

Credits outside the major

<table>
<thead>
<tr>
<th>Course Number</th>
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<tbody>
<tr>
<td>WRTG-15100</td>
<td>Affiliate to Script Analysis for the Theater or</td>
<td>3</td>
</tr>
<tr>
<td>WRTG-10600</td>
<td>Academic Writing I or Academic Writing II</td>
<td>3</td>
</tr>
<tr>
<td>WRTG-11200</td>
<td>Dramatic Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-31100</td>
<td>Shakespeare (THPA-36700 Interrelationships: British Drama and Cultural Life may be substituted for ENGL-31200 or ENGL-21900)</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-21900</td>
<td>Shakespeare (THPA-36700 Interrelationships: British Drama and Cultural Life may be substituted for ENGL-31200 or ENGL-21900)</td>
<td>3</td>
</tr>
<tr>
<td>Total, credits outside the major: 16–18</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Bachelor of Fine Arts Programs

After successful audition or interview by theater arts faculty, students may be admitted to one of the following programs for the bachelor of fine arts degree:
- B.F.A. in acting
- B.F.A. in theatrical production arts: theatrical design or theater technology
- B.F.A. in musical theater

Requirements for the Major in Acting — B.F.A.

Credits in the major

<table>
<thead>
<tr>
<th>Course Number</th>
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</thead>
<tbody>
<tr>
<td>THPA-10000</td>
<td>Theater Production</td>
<td>3</td>
</tr>
<tr>
<td>THPA-10200</td>
<td>Stagecraft</td>
<td>2</td>
</tr>
<tr>
<td>THPA-14100–14200</td>
<td>Scene Study</td>
<td>11</td>
</tr>
<tr>
<td>THPA-24100–24200</td>
<td>Voice and Movement</td>
<td>4</td>
</tr>
<tr>
<td>THPA-24300–24400</td>
<td>Voice and Speech for the Stage</td>
<td>3</td>
</tr>
<tr>
<td>THPA-24500–24600</td>
<td>Movement for the Stage</td>
<td>3</td>
</tr>
<tr>
<td>THPA-16100</td>
<td>Script Analysis for the Theater</td>
<td>3</td>
</tr>
<tr>
<td>THPA-34300</td>
<td>Advanced Voice and Speech</td>
<td>3</td>
</tr>
<tr>
<td>THPA-34400</td>
<td>Dialects for the Stage</td>
<td>3</td>
</tr>
<tr>
<td>THPA-38100</td>
<td>Dance: THPA-15300, THPA-15400 Ballet I or THPA-15500, THPA-15600 Modern Dance I</td>
<td>2</td>
</tr>
</tbody>
</table>

Two semesters of ballet or two semesters of modern dance must be taken concurrently with THPA-34300 or THPA-34400. If this requirement has been met previously, any two semesters of theater arts dance may be substituted.

<table>
<thead>
<tr>
<th>Course Number</th>
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</thead>
<tbody>
<tr>
<td>THPA-34100–34200</td>
<td>Styles of Acting</td>
<td>6</td>
</tr>
<tr>
<td>THPA-44100</td>
<td>TV Acting</td>
<td>3</td>
</tr>
<tr>
<td>THPA-37100</td>
<td>Directing</td>
<td>3</td>
</tr>
<tr>
<td>THPA-36100–36200</td>
<td>History of the Theater</td>
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<tr>
<td>THPA-46100</td>
<td>Contemporary Developments in Theater</td>
<td>35</td>
</tr>
</tbody>
</table>

Total, credits in the major: 189

Credits outside the major

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<td>Shakespeare (THPA-36700 Interrelationships: British Drama and Cultural Life may be substituted for ENGL-31200 or ENGL-21900)</td>
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<tr>
<td>ENGL-21900</td>
<td>Shakespeare (THPA-36700 Interrelationships: British Drama and Cultural Life may be substituted for ENGL-31200 or ENGL-21900)</td>
<td>3</td>
</tr>
<tr>
<td>Total, credits outside the major: 16–18</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total, B.F.A. in acting: 120

Requirements for the Major in Theatrical Production Arts — B.F.A.

Total required credits 60 (plus requirements in theater technology or theatrical design concentrations)

Credits in the major

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
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<td>THPA-14100–14200</td>
<td>Scene Study</td>
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<tr>
<td>THPA-24100–24200</td>
<td>Voice and Movement</td>
<td>4</td>
</tr>
<tr>
<td>THPA-24300–24400</td>
<td>Voice and Speech for the Stage</td>
<td>3</td>
</tr>
<tr>
<td>THPA-24500–24600</td>
<td>Movement for the Stage</td>
<td>3</td>
</tr>
<tr>
<td>THPA-16100</td>
<td>Script Analysis for the Theater</td>
<td>3</td>
</tr>
<tr>
<td>THPA-13100</td>
<td>Acting I</td>
<td>3</td>
</tr>
<tr>
<td>THPA-16100</td>
<td>Script Analysis for the Theater</td>
<td>3</td>
</tr>
<tr>
<td>THPA-20000</td>
<td>Advanced Theatrical Production</td>
<td>3</td>
</tr>
<tr>
<td>THPA-21200</td>
<td>Scene Painting</td>
<td>3</td>
</tr>
<tr>
<td>THPA-22100</td>
<td>Costume Construction</td>
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</table>

Select two for a total of 6 credits

<table>
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<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>THPA-21500</td>
<td>Lighting Design or</td>
<td>6</td>
</tr>
<tr>
<td>THPA-21700</td>
<td>Scene Design or</td>
<td>6</td>
</tr>
<tr>
<td>THPA-22400</td>
<td>Costume Design</td>
<td>6</td>
</tr>
<tr>
<td>THPA-32500–32600</td>
<td>History of Costume and Decor</td>
<td>6</td>
</tr>
<tr>
<td>THPA-36100–36200</td>
<td>History of the Theater</td>
<td>6</td>
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</table>

Select one

<table>
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<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>THPA-28300</td>
<td>Stage Management or</td>
<td>3</td>
</tr>
<tr>
<td>THPA-38100</td>
<td>Theater Organization and Management</td>
<td>3</td>
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</tbody>
</table>

Total, credits in the major: 51

Credits outside the major

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>WRTG-15100</td>
<td>Affiliate to Script Analysis for the Theater or</td>
<td>3</td>
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<tr>
<td>WRTG-10600</td>
<td>Academic Writing I or Academic Writing II</td>
<td>3</td>
</tr>
<tr>
<td>WRTG-11200</td>
<td>Dramatic Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-31100</td>
<td>Shakespeare (THPA-36700 Interrelationships: British Drama and Cultural Life may be substituted for ENGL-31200 or ENGL-21900)</td>
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<tr>
<td>ENGL-21900</td>
<td>Shakespeare (THPA-36700 Interrelationships: British Drama and Cultural Life may be substituted for ENGL-31200 or ENGL-21900)</td>
<td>3</td>
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<tr>
<td>Total, credits outside the major: 16–18</td>
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Total, required credits: 80

Additional requirements for theater technology concentration

<table>
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<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>THPA-20000</td>
<td>Advanced Theatrical Production [in addition to the credits required above]</td>
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<tr>
<td>THPA-28400</td>
<td>Computer-Aided Drafting for the Theater</td>
<td>3</td>
</tr>
<tr>
<td>THPA-20100</td>
<td>Advanced Techniques of Stagecraft</td>
<td>3</td>
</tr>
</tbody>
</table>
Select one of the following:
- THPA-30600 Sound Technology or THPA-32100 Advanced Costume Construction (3 credits)

Select one of the following:
- THPA-40200 Senior Project in Technical Production or THPA-40800 Senior Project in Sound Design or THPA-41600 Senior Project in Lighting Design (3 credits)

Select one of the following:
- THPA-40100 Seminar in Technical Production or THPA-40700 Advanced Project in Sound Design (3 credits)

Select one of the following:
- THPA-30101 Technical Direction or THPA-31500 Advanced Lighting Design or THPA-30700 Sound Design or THPA-31700 Advanced Scene Design or THPA-32400 Advanced Costume Design (3 credits)

Select two for a total of 6 credits:
- THPA-31500 Advanced Lighting Design or THPA-31700 Advanced Scene Design or THPA-32400 Advanced Costume Design (6 credits)

Select one of the following:
- THPA-41700 Advanced Project in Scene Design or THPA-41500 Advanced Project in Lighting Design or THPA-42400 Advanced Project in Costume Design (3 credits)

Select one of the following:
- THPA-41800 Senior Project in Scene Design or THPA-41600 Senior Project in Lighting Design or THPA-42500 Senior Project in Costume Design (3 credits)

Required credits outside theater arts
- ART-13000 Introduction to Drawing (3 credits)
- ART-22100 Figure Drawing (3 credits)
- ARTH-xxxx Any course in art history (3 credits)
- ARTH-xxxx Any course in art history (3 credits)

Total, theatrical design concentration (33 credits)

Electives (27 credits)

Total, B.F.A. in theatrical production arts (120 credits)

**Requirements for the Major in Musical Theater — B.F.A.**

**Credits in the major (theater arts)**

- THPA-10000 Theater Production (2 credits)
- THPA-10200 Stagecraft (2 credits)
- THPA-14100–THPA-14200, Scene Study (11 credits)
- THPA-24100–THPA-24200 (10 credits)
- THPA-14300–THPA-14400, Voice and Movement (4 credits)
- THPA-15100–THPA-15200 Jazz Dance I (2 credits)
- THPA-15300–THPA-15400 Ballet I (2 credits)
- THPA-15500–THPA-15600 Modern Dance I (2 credits)
- THPA-15700–THPA-15800 Tap Dance I (2 credits)
- THPA-16100 Script Analysis for the Theater (3 credits)
- THPA-24300–THPA-24400 Voice and Speech for the Stage (3 credits)
- THPA-24500–THPA-24600 Movement for the Stage (3 credits)

Any two semesters of THPA- dance at level 2
- THPA-25300, THPA-25400 Ballet II or
- THPA-25100, THPA-25200 Jazz II or
- THPA-25500, THPA-25600 Modern II
- THPA-34100–THPA-34200 Styles of Acting
- THPA-34500, THPA-34600 Musical Theater Workshop or Musical Theater Workshop and/or
- THPA-34700, THPA-34800 Opera Workshop
- THPA-44500, THPA-44600 Musical Theater Workshop
- THPA-44700, THPA-44800 Opera Workshop
- THPA-35100, THPA-35200 Dance for the Musical Stage (4 credits)
- THPA-36100–THPA-36200 History of the Theater (6 credits)

Total, credits in the major (theater arts) 64 credits

**Credits in the major (music)**

- MUTH-10100 Fundamentals of Music Theory (block course) (1 credit)
- MUTH-12100 Introduction to Musical Styles (2 credits)
- MUNM-17100–MUNM-17200 Keyboard Musicianship for Musical Theater Majors (2 credits)
- MUNM-22100–MUNM-22200 Musicianship for Theater I and II (6 credits)
- MUNM-35100 American Musical Theater (3 credits)
- PFMJ-19900 Performance Repertoire and Pedagogy (4 credits)
- PFMJ-30100, PFMJ-40100 Voice I, II, III and IV (15 credits)
- PFMJ-30100, PFMJ-40100 Total, credits in the major (music) 33 credits

**Credits outside the major**

- ENGL-31000 Dramatic Literature or ENGL-21900 Shakespeare (THPA-36700 Interrelationships: British Drama and Cultural Life may be substituted for ENGL-31000 or ENGL-21900) (3 credits)
- WRTG-15100 Affiliate to Script Analysis for the Theater or
- WRTG-15600 Academic Writing I or
- WRTG-11000 Total, credits outside the major 6 credits

**Electives — general education**

**Area 1:** Self and Society (6 credits)
**Area 2:** Science, Mathematics, and Formal Reasoning (6 credits)
**Area 3:** Human Expression (may be taken from major courses) (6 credits)
**General:** From Areas 1, 2, or 3 (6 credits)

Total, electives (18 credits)

Total, B.F.A. in musical theater 121 credits

**Requirements for the Major in Theater Arts Management — B.S.**

The student is admitted to the major following a successful interview with members of the theater faculty.

**Credits in the major**

- THPA-10000 Theater Production (3 credits)
- THPA-18000 Theater Management Practicum (3 credits)
- THPA-10200 Stagecraft (2 credits)
- THPA-11200 Introduction to Theatrical Design (3 credits)
- THPA-16100 Script Analysis for the Theater (3 credits)
- THPA-13100 Acting I (3 credits)
- THPA-28400 Promotion and Publicity for the Performing Arts (3 credits)
- THPA-36100–36200 History of the Theater (6 credits)
- THPA-37100 Directing I (3 credits)
- THPA-38100 Theater Organization and Management (3 credits)
- THPA-38200 Fund-Raising for the Performing Arts (3 credits)
- THPA-38600 Producing Theater (3 credits)
- THPA-44100 Contemporary Developments in Theater (3 credits)
- THPA-49100 Professional Internship (3–12 credits)

Total, credits in the major 44–53 credits
Credits outside the major

WRTG-10800 Academic Writing I (4) or 3-4
WRTG-11100 Academic Writing II (3) 3
ENGL-31100 Dramatic Literature I 3
ENGL-31200 Dramatic Literature II (3) or 3
ENGL-21900 Shakespeare (3) or 3
THPA-36700 Interrelationships: British Drama and Cultural Life (3) or 3
THPA-36300 Drama and the London Theater (3) 3
MATH-10500 Math for Decision Making (3) 3
MATH-10800 Calculus for Decision Making (4) 3-4
GBUS-20300 The Legal Environment of Business 3
ECON-12100 Principles of Macroeconomics 3
ECON-12200 Principles of Microeconomics 3
TVR-24100 Advertising 3
SPCM-11500 Business and Professional Communication (3) or 3
WRTG-21100 Writing for the Workplace (3) 3
COMP-11000 Computers and Information Technologies (3) or 3
COMP-10500 Introduction to Web Development (3) or 3
COMP-17100 Principles of Computing Science I (4) 3-4
ACCT-22000 Financial Accounting 3
ACCT-22600 Management Accounting 3
MGMT-20400 Organizational Behavior and Management 3
Total, B.S. in theater arts management 120

Theater Minor

The theater minor provides an option for students who may not want to be theater arts majors but wish to take theater courses, be guided in course selection, and receive recognition for their studies. Minors must be declared through consultation with the department office.

Credits in the minor

THPA-10000 Theater Production (to be taken concurrently with THPA-10200) 1
THPA-10200 Stagecraft 2
THPA-14000 Introduction to the Theater 3
THPA-13100 Acting I (Students must complete 6 credits of required theater courses before taking THPA-13100.) 3
Total 9

Electives from the following

SPCM-23000 Analysis and Performance of Literature 3
SPCM-33300 Analysis and Performance of Prose 3
SPCM-33400 Group Performance of Literature 3
SPCM-33500 Analysis and Performance of Poetry 3
Any theater arts courses not restricted to majors only 3
Total 9

Total, minor in theater 18

Dance Minor

The dance minor combines technique with academic study. It is intended to supplement majors in related fields such as theater, music, or physical education. Minors must be declared through consultation with the theater department office.

Required credits in the minor

THPA-15300, THPA-15400 Ballet I 2
THPA-25300, THPA-25400 Ballet II 2
THPA-15500, THPA-15600 Modern Dance I 2
THPA-25500, THPA-25600 Modern Dance II 2

One of the following

THPA-35300, THPA-35400 Ballet III or 3
THPA-45300, THPA-45400 Ballet IV or 3
THPA-15700-THPA-15900 Tap Dance or 3
THPA-15100-THPA-15200 Jazz Dance or 3
THPA-35100, THPA-35200 Dance for the Musical Stage 2
THPA-15000 Introduction to Dance 3
THPA-35800 Survey of Dance History 3
THPA-35500 Dance Composition 3
Total, dance minor 19

THEATER ARTS COURSES

Course Numbering System

Theater arts course numbers incorporate the following system for digits following the prefix (THPA):

First Digit — Level
1 Freshman
2 Freshman and sophomore
3 Sophomore and junior
4 Senior

Second Digit — Area of Study
0 Technical theater
1 Lighting and scene design
2 Costume, makeup
3 Acting, general
4 Acting: voice and movement (B.F.A. only)
5 Dance
6 History, theory, playwriting
7 Directing, ensemble programs
8 Theater management
9 Independent work

Note: A dash between course numbers means courses must be taken sequentially.

0 — Technical Theater

THPA-10000 Theater Production

Laboratory participation in production crew activities of the department. Students receive credit for assignments in technical theater (scenery, costume, lighting, sound, and stage management). Evaluation by the faculty member in charge is based on degree of professional attitude, activity, and performance. May be repeated for a total of 6 credits. 1 credit. (F-S,Y)

THPA-10100 Basic Theater Technology

The basic course in theater technology for majors in technical production or design. Includes the engineering, construction, and operation of stage equipment and theater scenery, and presents a survey of other related technical aspects of theater. Prerequisites: Acceptance in B.F.A. theatrical production arts major. 3 credits. (F-Y)

THPA-10200 Stagecraft

Introduction to all phases of physical production dealing with the stage, house, backstage personnel and their duties, construction and painting of scenery, stage lighting, and special effects. Corequisites: THPA-10000. 2 credits. (S,Y)

THPA-10400 Drafting for the Stage

A practical course in drafting: the use of drafting tools, shop drawings, blueprint reading, execution of ground plans, sections, and elevations. 3 credits. (S,Y)

THPA-20000 Advanced Theatrical Production

Crew supervision or advanced design assignment for the department. Students receive credit for advanced production assignments in theater (scenery, costumes, lighting, sound, or stage management). Evaluation by the faculty member in charge is based on degree of professional attitude, activity, and performance. May be repeated for a maximum of 9 credits. Prerequisites: THPA-10000; permission of instructor. 1–3 credits variable, depending upon assignment. (F-S,Y)

THPA-20100 Advanced Techniques of Stagecraft

Study of special stage and scenic devices and the use of modern materials, techniques, and technical specifications for both commercial and noncommercial theater. Prerequisites: THPA-10000; THPA-10100 or THPA-20200; THPA-20400. 3 credits. (F-Y)

THPA-20400 Computer Aided Drafting for the Theater

Computer-aided drafting for the theater involving electronic manipulation of lines, drawings, and symbols to convey visual ideas for construction and layout using AutoCAD software. Emphasis is placed on the aesthetic application of the computer as a drafting tool for theatrical design. Prerequisites: THPA-10400; THPA-11200. 3 credits. (F-Y)

THPA-30101 Technical Direction

An advanced study of the theory and practice of technical direction for the theater, involving scenery building techniques and technical specifications, construction drafting, budget and time analysis, and management techniques. Prerequisites: THPA-20100. 3 credits. (S,Y)
THPA-30600 Sound Technology  U N LA
A study of the tools and techniques of audio in theatrical production. Through theory and practical experience, the course examines the acoustic and electrical basis of audio technology, and teaches the structure of audio systems and the practical use of audio equipment and computerized control systems in theatrical technology. Prerequisites: THPA-10100 and THPA-20100, or TVR-10100 and TVR-27100, or MUMC-14500 and either MUMC-24900 or MUMC-25000. 3 credits. (F,Y)

THPA-30700 Sound Design  FA LA
The art of sound applied to the creative enhancement of the dramatic environment. The course focuses on the design process and on the way in which sound can be used to complement the visual and verbal concepts of directors and visual designers. Prerequisites: THPA-30600 or TVR-27100. 3 credits. (S,Y)

THPA-40100 Seminar in Technical Production  U N LA
Problems and organization of the technical aspects of production and a survey of related materials used in the theater. Prerequisites: B.F.A. theatrical production arts major; senior standing. 3 credits. (S,Y)

THPA-40200 Senior Project in Technical Production  U N LA
The capstone experience for B.F.A. theatrical production arts majors with a technical concentration. Students function as supervisors of a technical area for a major production. Prerequisites: THPA-21100; B.F.A. theatrical production arts major; senior standing; permission of the design/technical faculty. 3 credits. (S,Y)

THPA-40700 Advanced Project in Sound Design  U N LA
An opportunity for advanced students to pursue a major project in sound design or technology. Skills and techniques learned in THPA-30600 Sound Technology and THPA-30700 Sound Design are applied to projects in sound design, reinforcement system design, or show control, usually in conjunction with departmental productions. Prerequisites: THPA-20000; THPA-30700; B.F.A. theatrical production arts major; junior standing; permission of the design/technical faculty. 3 credits. (F,Y)

THPA-40800 Senior Project in Sound Design  U N LA
Design and implementation of a sound-reinforcement system for a large musical production, or a sound-score and performance system for a substantial dramatic production. This project is considered a capstone experience for the senior student in the focus area under the supervision of the faculty sound designer. Prerequisites: THPA-41500, THPA-41700, THPA-40700, or CHEM-42400; theatrical production arts major; senior standing; permission of the design/technical faculty. 3 credits. (S,Y)

1 — Lighting and Scene Design

THPA-11200 Introduction to Theatrical Design  FA LA
An introduction to the theories and methodologies of theatrical design, including the areas of scenic, costume, and lighting design. This course focuses on the analysis, interpretation, and visualization of dramatic work. 3 credits. (F,S,Y)

THPA-11500 Basic Lighting Technology  U N LA
A basic course in theater lighting technology. The course covers basic electrical principles, use and repair of theater lighting instruments, control and dimming devices, troubleshooting a theatrical lighting setup, and the responsibilities and duties of a theatrical master electrician. 3 credits. (S,Y)

THPA-21100 Design Presentation Techniques  U N LA
An introductory course exploring design presentation techniques, including sketching, drawing, painting and model making. Prerequisites: THPA-10400; THPA-11200. 3 credits. (F,Y)

THPA-21200 Scene Painting  U N LA
Materials and methods of painting scenery; explores techniques from simple application of various paints to finished theatrical backgrounds. Prerequisites: THPA-11200. 3 credits. (S,Y)

THPA-21500 Lighting Design  FA LA
An examination and exploration of the aesthetics of lighting design, from script analysis and interpretation to executing the design process. Research, composition, color, etc., will be used to refine and present design ideas. Prerequisites: THPA-10400, THPA-11200, and THPA-11500, or equivalent experience; permission of instructor. 3 credits. (F,Y)

THPA-21700 Scene Design  FA LA
Analysis and interpretation of dramatic works in the form of design for the visual environment. Script analysis, research, conceptualization, model making, drawing, etc., are used to refine and present design ideas. Prerequisites: THPA-10400; THPA-11200; THPA-21100 (may be taken concurrently). 3 credits. (F,Y)

THPA-31500 Advanced Lighting Design  FA LA
An advanced study of the art of lighting design. Interpretation of dramatic works in a visual form is the focus of this class in examining more advanced and varied forms of drama than THPA-21500 Lighting Design. Prerequisites: THPA-21500. 3 credits. (S,Y)

THPA-31700 Advanced Scene Design  FA LA
A continuation of design ideas and processes begun in THPA-21700 Scene Design, examining more advanced and varied forms of drama. Interpretation of dramatic works in a visual form remains the focus of the class. Prerequisites: THPA-21700. 3 credits. (S,Y)

THPA-41500 Advanced Project in Lighting Design  U N LA
Students undertake creation of lighting design elements for a departmental production. Prerequisites: THPA-20000; THPA-31500; B.F.A. theatrical production arts major; junior standing; permission of the design/technical faculty. 3 credits. (F,Y)

THPA-41600 Senior Project in Lighting Design  U N LA
The capstone experience for qualified theatrical production arts majors. Students undertake creation of lighting designs for a significant departmental production, under the direct supervision of that area's faculty specialist. Prerequisites: THPA-41500, THPA-41700, THPA-40700, or THPA-42400; B.F.A. theatrical production arts major; senior standing; permission of the design/technical faculty. 3 credits. (S,Y)

THPA-41700 Advanced Project in Scene Design  U N LA
Students undertake creation of scenic design elements for a departmental production. Prerequisites: THPA-20000; THPA-31700; theatrical production arts major; junior standing; permission of the design/technical faculty. 3 credits. (F,Y)

THPA-41800 Senior Project in Scene Design  U N LA
The capstone experience for qualified theatrical production arts majors. Students undertake creation of scenic designs for a significant departmental production, under the direct supervision of that area's faculty specialist. Prerequisites: THPA-41500, THPA-41700, THPA-40700, or THPA-42400; B.F.A. theatrical production arts major; senior standing; permission of the design/technical faculty. 3 credits. (S,Y)

2 — Costume and Makeup

THPA-22000 Theatrical Makeup  U N LA
Study of materials and principles governing the application of theatrical makeup. 1 credit. (F-S,Y)

THPA-22100 Costume Construction  U N LA
Introduction to the tools, supplies, and techniques of costume construction with an emphasis placed on developing basic skills. 3 credits. (F,S,Y)

THPA-22400 Costume Design  FA LA
The analysis and interpretation of dramatic works in the milieu of costume design. Script analysis, character analysis, research, composition, etc., are combined to present and refine the design ideas. Prerequisites: THPA-11200. 3 credits. (F,Y)

THPA-22700 Introduction to Puppetry  FA LA
An introduction to the art of puppetry, this course examines the history of puppetry as well as the similarities and differences between puppets from various cultures. The students will research, design, create, and manipulate puppets. The course includes performance techniques. Prerequisites: Sophomore standing or completion of a level-2 course in the humanities or fine arts. 3 credits. (IRR)

THPA-32100 Advanced Costume Construction  U N LA
An advanced study of the techniques used in costume construction, including patterning, draping, pattern drafting, and tailoring/sewing skills. Prerequisites: THPA-22100. 3 credits. (F,E)
**4 — Acting: Voice and Movement**

(For acting and musical theatre majors only)

**THPA-14100—THPA-14200 Scene Study** U NLA

**THPA-14300—THPA-14400 Voice and Movement for the Stage** U NLA
Laboratory in concentration and self-awareness through physical awareness, control, and flexibility — the dynamics necessary for the creation of a strong voice and stage presence. Corequisites: THPA-14100—THPA-14200. 2 credits. (THPA-14300-F, THPA-14400-S,Y)

**THPA-24100—THPA-24200 Scene Study** U NLA

**THPA-24300—THPA-24400 Voice and Speech for the Stage** U NLA
Study and exercise in the techniques of effective stage speech. Organic awareness used to attain lively, flexible, and natural vocal abilities. Prerequisites: THPA-13000—THPA-14000. Corequisites: THPA-24100—THPA-24200; THPA-24500—THPA-24600. 1.5 credits. (THPA-24300-F, THPA-24400-S,Y)

**THPA-24500—THPA-24600 Movement for the Stage** U NLA
Study and exercise in techniques of effective stage movement utilizing organic awareness, flexibility, and imagination to develop stage presence and characterization skills. Prerequisites: THPA-13100—THPA-14100. Corequisites: THPA-24100—THPA-24200; THPA-24500—THPA-24600. 1.5 credits. (THPA-24500-F, THPA-24600-S,Y)

**THPA-34100—THPA-34200 Styles of Acting** U NLA
Emphasis is placed on classic, romantic, modern, and avant-garde modes and periods, studied and performed in selected scenes. THPA-34200 is also offered through the London Center. Prerequisites: THPA-24100—THPA-24200. Corequisites: THPA-34300—THPA-34400. 3 credits. (THPA-34100-F, THPA-34200-S,Y)

**THPA-34300 Advanced Voice and Speech for the Stage** U NLA
Advanced and specialized studies in voice production articulation and interpretation of classic dramatic texts. Prerequisites: THPA-24400; THPA-24600. 3 credits. (F,Y)

**THPA-34400 Dialects for the Stage** U NLA
Study of dialects as a tool for characterization. Prerequisites: THPA-24400 and THPA-24600. 3 credits. (S,Y)

**THPA-34500—THPA-34600, THPA-44500—THPA-44600 Musical Theater Workshop** FA LA
A team-taught, interdisciplinary, performance-oriented course designed to integrate musical and theater performance skills through the selection, development, and presentation of scenes from standard and contemporary repertoires. Cross-listed with MUMC-44500; music students must enroll in MUMC-44500. Prerequisites: Admission by audition to faculty at first meeting of each semester. 2 credits. (F-S,Y)

**THPA-34700—THPA-34800, THPA-44700—THPA-44800 Opera Workshop** FA LA
A team-taught, interdisciplinary, performance-oriented course designed to integrate musical and theater performance skills through the development and presentation of scenes from the standard and contemporary operatic repertoire. Cross-listed with MUMC-44700; music students must enroll in MUMC-44700. Prerequisites: Junior standing; audition required. 2 credits. (F-S,Y)

**THPA-44000 Audition Techniques** U NLA
Training and practice in selecting, preparing, and presenting audition monologues, and in cold reading and personal interview techniques. Prerequisites: THPA-34100—THPA-34200 (may be taken concurrently). 2 credits. (S,Y)
Theater Arts Courses

THPA-44100 Television Acting U NLA
Designed to teach stage-oriented actors how to adapt to television techniques. Students perform in the television studio under the direction of faculty in theater arts and television. Prerequisites: THPA-34100--THPA-34200. 3 credits. (F,Y)

THPA-44200 Daytime TV Drama U NLA
Rehearsal and performance of several scenes of drama to be directed by a professional guest director. Open to acting, musical theater, and television-radio majors. Prerequisites for theater majors: THPA-44100. Prerequisites for television-radio majors: TVR-20200; senior standing. 3 credits. (S,Y)

5 — Dance

THPA-15000 Introduction to Dance FA LA 3b Survey of the varied forms and styles of theatrical dance. Lecture, discussion, and film viewing provide a fundamental understanding of the development of dance forms and a foundation for evaluation and criticism of dance performance. 3 credits. (F,Y)

THPA-15100--THPA-15200 Jazz Dance I FA LA Introductory analysis and practice of jazz dance for theater performance. Students develop an understanding of fundamental jazz movement principles. Prerequisites: One year of modern dance or ballet. May be repeated once on recommendation of instructor. 1 credit. (F-S,Y)

THPA-15300--THPA-15400 Ballet I FA LA Basic ballet technique and terminology. Development of body awareness, elasticity, and rhythmic sense. May be repeated once on recommendation of instructor. 1 credit. (F-S,Y)

THPA-15500--THPA-15600 Modern Dance I FA LA Introductory course for the student with little or no previous dance experience. Designed to develop an appreciation for the art form and a proficiency in beginning modern dance techniques. Emphasis is placed on expressive body movement, warm-up exercises, and basic principles of form and improvisation. May be repeated once on recommendation of instructor. 1 credit. (F-S,Y)

THPA-15700--THPA-15800 Tap Dance I FA LA Beginner-level course in tap dance techniques and terminology with an introduction to tap dance history in stage and film. May be repeated once on recommendation of instructor. 1 credit. (F-S,Y)

THPA-25000 The Alexander Technique U NLA The Alexander technique is a mind-body learning process developed by F. M. Alexander, an Australian actor. Through discussion, self-awareness activities, selected readings, and gentle hands-on teaching, this course explores his ideas for increasing kinesthetic awareness as a skill for improving ease and freedom of movement for the performer and non-performer alike. Prerequisites: Sophomore standing. 2 credits. (S,Y)

THPA-25100--THPA-25200 Jazz Dance II FA LA Continued work in analysis and practice of jazz dance for theater performance. Further develops skills begun in THPA-15100--THPA-15200. May be repeated once on recommendation of instructor. Prerequisites: THPA-15100--THPA-15200. 2 credits. (F,Y)

THPA-25300--THPA-25400 Ballet II FA LA Continuation of ballet training. Building of strength through flexibility and coordination. May be repeated once on recommendation of instructor for a total of 4 credits. Prerequisites: THPA-15300--THPA-15400, or by placement. 2 credits. (F-S,Y)

THPA-25500--THPA-25600 Modern Dance II FA LA Intermediate level of dance skills, designed to broaden the student's awareness of choices in the modern dance idiom. May be repeated once on recommendation of instructor. Prerequisites: THPA-15500--THPA-15600. 2 credits. (F-S,Y)

THPA-35100--THPA-35200 Dance for the Musical Stage FA LA Advanced course in dance performance techniques and styles and in the history of the musical stage. Movement studies are performed to familiarize students with a variety of musical theater dance styles from selected historical periods. Prerequisites: Beginning jazz and tap courses. 2 credits. (F-S,Y)

THPA-35300--THPA-35400 Ballet III NLA Technique course for those who have completed Ballet I and II, or equivalent, and are prepared for more complicated ballet movements. Pointe work last half hour of class period with permission of instructor. Emphasis is placed on dance as a means of expression. Prerequisites: THPA-25300--THPA-25400. Technique: 2 credits; may be repeated, with recommendation of instructor, for a total of 4 credits. Technique and pointe: 2.5 credits; may be repeated, with recommendation of instructor, for a total of 5 credits. (F-S,Y)

THPA-35500 Dance Composition FA LA Introduction to dance composition theory through original movement studies composed by the students. Explores concepts of movement design in time and space, as well as dynamics, rhythm, and motivation. Prerequisites: Two years of dance technique, including one year of modern dance. 3 credits. (F,Y)

THPA-35800 Survey of Dance History HU LA 3b, h, g Examines origins and development of dance in Western civilization, considering the artistic, political, philosophical, religious, and social forces that influenced the art form. Prerequisites: Junior-level standing or three courses in the humanities or fine arts. 3 credits. (F,Y)

THPA-45300--THPA-45600 Ballet IV NLA Continues to develop the strength and control necessary to the ever-increasing demands of a good ballet technique. Emphasis is placed on individual expression through dance. Prerequisites: THPA-35300--THPA-35400, or permission of instructor. Ballet technique: 2 credits; may be repeated, with recommendation of instructor, for a total of 4 credits. Ballet technique and pointe: 2.5 credits; may be repeated, with recommendation of instructor, for a total of 5 credits. (F-S,Y)

6 — Theater History, Theory, Playwriting

THPA-16000 Introduction to the Theater FA LA 3b Survey of theater practices and principles in the various aspects of theatrical production. Examination of how plays are constructed, using examples from different eras of the world theater. Occasional guest speakers. Required attendance at selected productions. 3 credits. (F-S,Y)

THPA-16100 Script Analysis for the Theater FA LA 3b, h Close examination of the play script/libretto as the basic element in theater. The course includes study of the script/libretto as the diagram for theatrical production. Students will read texts from classics and contemporary theater, engage in class discussions, and write analyses of required scripts/librettos. Prerequisites: Theater arts major. 3 credits. (F,Y)

THPA-36100--THPA-36200 History of the Theater HU LA 3b, h, g Evolution of drama and the theater from its primitive beginning through later developments in Greece, Rome, and medieval and Elizabethan England to modern drama. Prerequisites: Three courses in the humanities and/or fine arts. 3 credits. (THPA-36100-E, THPA-36200-S,Y)

THPA-36300 Drama and the London Theater FA LA 3b, g Study of drama and performance involving current productions on the London stage. Critical analysis of the texts prior to performance. The course may be repeated once for credit. Offered only through the London Center. Prerequisites: Three courses in the humanities and/or fine arts. 3 credits. (F,S,Y)

THPA-36400 Aesthetics and Criticism of Drama HU LA Survey of major critical and aesthetic theories of drama from the classic to the contemporary theater applied to representative dramatic compositions. Students prepare and present written assignments. Prerequisites: Three courses in the humanities and/or fine arts. 3 credits. (S,Y)

THPA-36500 Playwriting FA LA Preparation of a one-act play from germinal idea to completed script. Analysis of dramaturgical theory and technique, including plot, characterization, and dialogue. Prerequisites: THPA-16000 or THPA-16100; at least three courses in the humanities and/or social sciences. 3 credits. (S,Y)

THPA-36700 Interrelationships: British Drama and Cultural Life HU LA 3b, g This course is divided into two units, which must be taken concurrently.

This course is divided into two units, which must be taken concurrently.

Seminar: Lectures and workshops on British cultural history reflected in the drama of four major periods: (1) Renaissance; (2) Restoration and 18th century; (3) Victorian and Edwardian; and (4) 20th century. 6 credits.

Laboratory: Play attendance, guided on-site tours of historic museums and buildings, backstage tours, class readings and discussions, guest speakers, and a journal recording experiences. 3 credits.

Offered only through the London Center. Open to all drama program students, but not required. Prerequisites: Three courses in the humanities and/or fine arts. 9 total credits. (S,Y)
THPA-46100 Contemporary Developments in Theater  
Student of the history of dramatic art from 1950 to the present, including movements in dramatic literature, theory, and production. Prerequisites: THPA-36100; THPA-36200. 3 credits. (F,Y)

THPA-46400 Theories of Comedy and Tragedy  
Study of comic and tragic theory from classical to contemporary periods applied to major types and styles of dramatic composition. 3 credits. (S,Y)

THPA-46500 Advanced Playwriting  
Writing of a full-length play. Class discussion and analysis of student writing, supplemented by individual conferences with instructor. Prerequisites: THPA-36500; junior standing. 3 credits. (S,Y)

THPA-46800 Senior Seminar  
Historical, cultural, and/or literary research on selected topics. Prerequisites: THPA-16000 or THPA-16100; THPA-36100 or THPA-36200; ENGL-31100 or ENGL-31200; senior standing. 3 credits. (S,Y)

THPA-37100 Directing I  
Fundamentals of directing; class work in composition, picturization, movement, tempo, and mood; rehearsal procedures; and play selection and interpretation. Prerequisites: THPA-13100–THPA-13200 or THPA-14100–THPA-14200; one other course in theater arts. 3 credits. (F,S,Y)

THPA-37200 Directing II  
Laboratory experience in directing scenes; study of directing theories. Prerequisites: THPA-37100. 3 credits. (F,S,Y)

THPA-37300 Introduction to Directing  
Study of the basic principles and problems involved in directing plays and musicals, including those peculiar to amateur productions. Offered either Block I or Block II fall semester. For non-theater majors; recommended for speech communication and music education majors. Prerequisites: Three courses in the humanities, music, or communications; junior standing. 2 credits. (I,S)

THPA-47000 Senior Project in Directing  
Senior theater arts majors select and rehearse a one-hour production performed for an audience under studio performance conditions. Prerequisites: THPA-37100; THPA-37200 or equivalent experience; theater arts major; senior standing; approval of departmental chair and curriculum committee. 3 credits. (F,S,Y)

THPA-47200 Senior Ensemble  
Preparation and/or presentation of a broad repertoire of projects through special workshops and field studies. Prerequisites: B.F.A. theater arts major; senior standing; audition and/or interview. 1–15 credits. (S,Y)

THPA-18000 Theater Management Practicum  
Laboratory participation in management activities for the department. Evaluation by the faculty member in charge is based on the degree of professional attitude, activity, and performance. May be repeated for a maximum of 9 credits. Prerequisites: Permission of instructor. 1–3 credits, variable. (F,S,Y)

THPA-28300 Stage Management  
Practical review and development of the management skills, operational techniques, and practices of stage management from pre-rehearsal through postproduction. Prerequisites: THPA-10100 or THPA-10200; sophomore standing or above. 3 credits. (F,O)

THPA-28600 Promotion and Publicity for the Performing Arts  
The study of marketing and publicity strategies, concepts, designs, and implementation plans used by performing arts organizations to attract and maintain a loyal customer base. Course will explore contemporary trends in bringing art and audiences together. Prerequisites: Sophomore standing; THPA-16000 or THPA-16100. 3 credits. (S,Y)

THPA-38100 Theater Organization and Management  
Survey of the organization and management of professional and amateur theatrical companies, Studies and compares Broadway, stock, community, and college theaters. Students do practical assignments in box-office, house, and publicity management. Prerequisites: Three courses in the humanities and/or fine arts. 3 credits. (F,S,Y)

THPA-38500 Fund-Raising for the Performing Arts  
Examines the concepts, tools, and current environment of philanthropy as it pertains to the nonprofit performing arts industry. Explores individual, corporate, foundation, and government giving trends and the methods used to solicit support for the performing arts, including case statements, proposal writing, direct mail, special events, and the Internet. Prerequisites: Junior standing; THPA-36100. 3 credits. (F,E)

THPA-38600 Producing Theater  
Examines the role of the producer in commercial and nonprofit theater productions in the United States. Follows current trends in producing Broadway, off-Broadway, and regional theater and explores the industry’s unions and trade associations. Prerequisites: Junior standing; THPA-36100. 3 credits. (S,Y)

THPA-48000 Senior Project in Theater Arts Management  
Qualified senior students undertake a major theater management assignment under the supervision of a faculty specialist. Prerequisites: Senior standing in the theater arts management program; permission of the program coordinator. 3 credits. (F,S,Y)

THPA-48100 Professional Aspects of Theater  
Advanced course designed for those intending to enter the professional theater. Special projects in the study of current plays and in the preparation of interviews, résumés, portfolios, and audits. Prerequisites: THPA-38100. Prerequisites: B.F.A. theater arts major; senior standing. 2 credits. (F,Y)

9 — Independent Work  
Note: Only one enrollment per semester is permitted in any type of independent work.

THPA-29500—THPA-29600 Special Topics  
Topics of current interest in theater, such as special problems in theater production, guest artist workshop, or contemporary developments in arts management. May be repeated for credit for topics on different subjects. Prerequisites: Three courses in humanities and/or fine arts; appropriate lower-level theater courses that offer introductory or general information on the subject. 1–3 credits.

THPA-49000 Theater Projects  
Independent pursuit of applied production projects. May be repeated for a total of 6 credits. Prerequisites: Junior or senior standing; by special permission of departmental curriculum committee. 1–4 credits. (S,Y)

THPA-49100—THPA-49200 Professional Internship  
A one-semester internship with a professional performing arts organization. Student’s work monitored and evaluated by faculty advisor. See information on internships, p. 117. Also offered through the London Center. Prerequisites: Junior standing; departmental permission. Maximum of 12 credits. (THPA-49100-F, THPA-49200-S,Y)

THPA-49500, THPA-49600 Special Topics  
Topics of current interest in theater, such as special problems in theater production, guest artist workshop, contemporary developments in arts management. May be repeated for credit when topics vary. Prerequisites: Three courses in humanities and/or fine arts; additional prerequisites as appropriate to the topic. 1–3 credits.

THPA-49900 Independent Study  
Special reading and research under the supervision of the department. Also offered through the London Center. May be repeated for a total of 6 credits. Prerequisites: Junior or senior standing; by special permission of departmental curriculum committee. 1–4 credits. (S,Y)

WOMEN’S STUDIES  
Diane McPherson, Associate Professor and Coordinator  
For information about the women’s studies minor see its listing under “Individual and Interdisciplinary Studies Programs” on p. 205.
**WRITING**

**Bachelor of Arts**

Sally Parr, Assistant Professor and Chair

The Department of Writing offers a comprehensive curriculum designed to foster clarity and creativity in expression, as well as to develop expertise in various writing styles and genres. It provides instruction in first-year writing for all entering students, advanced study in expository, creative, and professional writing, and a 21-credit minor for students in diverse disciplines.

The B.A. in writing offers serious writers guidance and experience in a range of genres; students may also elect to complete a concentration in creative writing, nonfiction, feature writing, or professional and technical writing. The major, which blends practice and theory, prepares students for graduate study, professional positions, and careers in writing.

**Writing Center**

The Department of Writing operates the writing center, located in Roy H. Park Hall. It offers individual and small group tutorials on a referred or self-selected basis to students needing assistance in any stage of the writing process. Other services include help with reading comprehension and study skills and refining English skills for nonnative speakers.

**Writing Resource Rooms**

The Department of Writing’s networked computer classrooms, located in 313 and 314 Williams Hall and 103 Friends Hall, are open evenings and weekends to all students. They are staffed by student consultants who provide tutorial help in academic and professional writing as well as in computer use. Facilities include reference books, laser printers, scanners, and a variety of software, including publishing and design applications.

**Stillwater**

The Department of Writing offers a special opportunity to students interested in writing and graphic arts to publish Stillwater, an annual magazine of poetry, prose, photography, and art. The students who staff the publication make all editorial selections and do layout, publicity, and production. Submissions are open to the entire College community.

**Writing Contest**

Each spring the Department of Writing conducts a writing contest open to all Ithaca College students. Entries are accepted in each of the following categories: first-year essay, expository essay, journalistic essay, personal essay, prose fiction, poetry, and creative nonfiction.

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**Requirements for the Major in Writing — B.A.**

**Credits in the major**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>WRTG-16500</td>
<td>Introduction to the Essay</td>
<td>3</td>
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<tr>
<td>WRTG-17500</td>
<td>Introduction to Creative Writing</td>
<td>3</td>
</tr>
<tr>
<td>WRTG-20500</td>
<td>Personal Essay</td>
<td>3</td>
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<tr>
<td>WRTG-20100</td>
<td>Persuasive Argument</td>
<td>3</td>
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<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>WRTG-31100</td>
<td>Writing for the Professions*</td>
<td></td>
</tr>
<tr>
<td>WRTG-32000</td>
<td>Public Essay</td>
<td>3</td>
</tr>
<tr>
<td>WRTG-33600</td>
<td>Fiction II*</td>
<td>3</td>
</tr>
<tr>
<td>WRTG-33800</td>
<td>Poetry II*</td>
<td>3</td>
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Select one of the following:

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<td>WRTG-36500</td>
<td>Composition Theory</td>
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<td>WRTG-36500</td>
<td>Poetics*</td>
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* Note that these courses have prerequisites beyond those specified for the major.

**Required level-4 courses**

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<tr>
<td>WRTG-41000</td>
<td>Senior Project</td>
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<tr>
<td>WRTG-41500</td>
<td>Senior Seminar</td>
<td>3</td>
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**Writing electives**

Five writing electives at level 2 or above, with at least 9 credits at level 3 or above

Total, credits in the major

**General degree or elective concentration in writing**

Majors may complete a general degree in writing or they may declare a formal concentration in creative writing, nonfiction, feature writing, or professional and technical writing. Concentrations, if elected, must be declared by midterm of the first semester of junior year. Requirements for concentrations may overlap with writing electives.

**Elective Concentrations**

**Creative writing concentration**

**Required**

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<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>WRTG-23400</td>
<td>Fiction I</td>
<td>3</td>
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<tr>
<td>WRTG-23800</td>
<td>Poetry I</td>
<td>3</td>
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<td>WRTG-33600</td>
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<tr>
<td>WRTG-33800</td>
<td>Poetry II (3)</td>
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<td>WRTG-33100</td>
<td>Autobiography (3)</td>
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<tr>
<td>WRTG-33400</td>
<td>Humorous Writing (3)</td>
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<tr>
<td>WRTG-33500</td>
<td>Selected Topics in Creative Writing (3)</td>
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<tr>
<td>WRTG-33800</td>
<td>Writers’ Workshop (1) (may be taken 3 times)</td>
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<tr>
<td>WRTG-43600</td>
<td>Writing the Short Novel (3)</td>
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<tr>
<td>WRTG-45000</td>
<td>Internship (3)</td>
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Total, creative writing concentration

**Nonfiction concentration**

**Required**

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<tr>
<td>WRTG-32000</td>
<td>Public Essay</td>
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Select four of the following:

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<tbody>
<tr>
<td>WRTG-33100</td>
<td>Autobiography (3)</td>
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<tr>
<td>WRTG-33400</td>
<td>Humorous Writing (3)</td>
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<tr>
<td>WRTG-33500</td>
<td>Selected Topics in Expository Writing (3)</td>
<td></td>
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<tr>
<td>WRTG-38000</td>
<td>Writers’ Workshop (3)</td>
<td></td>
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<tr>
<td>WRTG-42000</td>
<td>Apprenticeship (3)</td>
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<td>WRTG-45000</td>
<td>Internship (3)</td>
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Total, nonfiction concentration

**Feature writing concentration**

**Required**

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<td>WRTG-33100</td>
<td>Feature Writing</td>
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Select three of the following:

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<td>WRTG-32100</td>
<td>Writing for the Workplace (3)</td>
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<tr>
<td>WRTG-33400</td>
<td>Science Writing (3)</td>
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<tr>
<td>WRTG-33500</td>
<td>Writing about Sports (3)</td>
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<tr>
<td>WRTG-33800</td>
<td>Writing as a Critic (3)</td>
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<tr>
<td>WRTG-35000, WRTG-35200</td>
<td>Selected Topics in Expository Writing (3)</td>
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<td>WRTG-38000</td>
<td>Writers’ Workshop (3)</td>
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<tr>
<td>WRTG-42000</td>
<td>Apprenticeship (3)</td>
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<td>WRTG-45000</td>
<td>Internship (1–4)</td>
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Total, feature writing concentration

**Professional and technical writing concentration**

**Required**

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<th>Credits</th>
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<td>Writing for the Workplace (3)</td>
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<td>WRTG-21300</td>
<td>Technical Writing</td>
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<tr>
<td>WRTG-31100</td>
<td>Writing for the Professions (3)</td>
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</table>

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Credits outside the major

Required outside field: All writing majors must complete an outside field. This may be (1) an 18–21-credit minor in any Ithaca College department; (2) a 15-credit minor in any Ithaca College department plus one related 3-credit course; or (3) an individually designed outside field (minimum of 18 credits, with at least 9 credits above level 1), which is planned in conjunction with the student’s adviser and approved by the department chair. For students with a double major, the other major counts as the outside field.

Required language: All writing majors must complete study of a language other than English through the first semester of the intermediate level or demonstrate equivalent proficiency (0–9 credits). An acceptable substitute for this requirement is one semester of formal study abroad in a country where the language predominantly spoken is not English.

Total, credits in the major 57–69
Total, credits outside the major 18–30
Total, open electives 51–63
Total, B.A. in writing 120

Minor in Writing

Requirements for the minor in writing

1. All writing courses must be taken for a grade to count toward the minor. One level-1 composition course (WRTG-10600 through WRTG-16500) must be completed with B- or better. Any student receiving below B- in WRTG-10600, WRTG-11100, WRTG-16300, WRTG-15200, WRTG-45000 Internship, or WRTG-49800/WRTG-49900 Independent Study must take WRTG-11100 and receive at least a B- in that course to qualify for the writing minor. Writing courses at level 2 or above must be completed with C or better.

2. No more than two level-1 courses will count toward the writing minor.

3. Minors must take 6 of their 21 writing credits at level 3 or above.

4. Students may count toward the writing minor no more than 3 credits each in any one of the following courses: WRTG-42000 Apprenticeship, WRTG-45000 Internship, or WRTG-49800/WRTG-49900 Independent Study (Exposition/Creative Writing). A maximum of 6 credits from among these courses may be applied toward the writing minor.

5. Up to 6 credits in the writing minor may overlap with a student’s writing requirements in a major.

General Information for All Students in Writing Courses

Students will receive course-specific credit for WRTG-11100 Academic Writing II by receiving a score of 4 or 5 on the College Board Advanced Placement Language and Composition or Literature and Composition examination, and also a score of 1 or 2 on the Department of Writing placement test. Students enrolled in the School of Humanities and Sciences may not apply that course-specific credit toward fulfilling the focused curricular choice component of the general education requirement.

Note: Students wishing to enroll in a course for which they have not completed the prerequisites must receive the permission of the instructor.

Writing Courses
Writing Courses

essays ranging from single-source papers to evaluations of the claims and evidence in a number of readings. Typical assignments include single-source critiques and multiple-source syntheses. The course emphasizes thoughtful and responsible use of sources. It includes a fourth hour designed to guide students through the composing process and help them edit their own writing, more effectively for clarity, development, correctness, and style. May satisfy departmental and school requirements for a level-1 writing course. Students may not receive credit for this course and WRTG-10600. Prerequisites: Open only to freshmen, sophomores, and transfer students in the School of Humanities and Sciences; students from the professional schools may be admitted on a space-available basis by petition. 4 credits. (F-S,Y)

WRTG-11100 Academic Writing II

Refines and advances writing and reasoning abilities taught in Academic Writing I. Focus is on complex synthesis of material from diverse sources to analyze and evaluate significant issues. Students study library research methods and complete an independent research project. May satisfy departmental and school requirements for a second level-1 writing course. Available only to freshmen, sophomores, and transfer students. Prerequisites: Any level-1 composition course from WRTG-10600 through WRTG-16500, or by placement. 3 credits. (F-S,Y)

WRTG-16300 Writing Seminar: Business

Teaches basic academic writing skills and content, with content and approach meeting the specific needs of first-year business majors. Readings and assignments relate the discipline of business to the liberal arts and draw parallels between academic and business writing. Students may not receive credit for both this course and WRTG-10600, WRTG-10800, or WRTG-15200. Open only to business majors. 4 credits. (F-S,Y)

WRTG-16500 Introduction to the Essay

Introduces the principal concepts of writing through a study of the genre of the essay. In addition to achieving the broad goals of Academic Writing I and II, this course includes how to conduct research and use sources thoughtfully and responsibly, and asks students to examine the intentions, strategies, and styles of selected essayists from Montaigne to the present. May satisfy departmental and school requirements for a level-1 writing course. Prerequisites: Non-writing majors by placement only. 3 credits. (F-S,Y)

WRTG-17500 Introduction to Creative Writing

Elements and techniques of writing fiction and poetry introduced through instruction, analysis of models, experimentation, and practice. Fiction-writing techniques include developing character and plot, using dialogue, creating scenes, learning narrative structure, and acquiring narrative voice. Poetry-writing techniques include traditional poetic forms, poetic imagery, and descriptive and figurative language. Not open to students who have previously received credit for WRTG-23600 or WRTG-23800. Prerequisites: Any level-1 composition course from WRTG-10600 through WRTG-16500. 3 credits. (F-S,Y)

WRTG-20100 Persuasive Argument

Prepares students to write convincing arguments by learning logical strategies for presenting and defending ideas. Introduces a variety of forms persuasive argument can take, emphasizing the traditional essay. Particularly recommended for students who wish to strengthen their ability to present their point of view persuasively, intelligently, and ethically. Prerequisites: Sophomore standing; any level-1 composition course from WRTG-10600 through WRTG-16500. 3 credits. (F-S,Y)

WRTG-20500 Personal Essay

Writing essays based on analysis of students' experiences, ideas, and feelings. Emphasis is placed on narrative, descriptive, and organizational techniques, as well as development of style. Readings intended to deepen students' understanding of their own lives and provide models for creative interpretations of their own experience. Prerequisites: Any level-1 composition course from WRTG-10600 through WRTG-16500. 3 credits. (F-S,Y)

WRTG-21100 Writing for the Workplace

Basic on-the-job writing necessary to join, manage, and promote any organization, whether profit or non-profit. Focus is primarily on short forms: résumés, memos, business letters, summaries, brochures, newsletters, press releases, informal proposals, and reports. Course also explores how various social, economic, and political issues affect workplace writing. Prerequisites: Sophomore standing; any level-1 composition course from WRTG-10600 through WRTG-16500. 3 credits. (F-S,Y)

WRTG-21300 Technical Writing

Fundamentals for communicating technical information to general and specialized audiences. Class emphasizes the foundations of technical writing, their formats and applications, context-specific writing strategies, basic visual design, and ethics. Some reading in and discussion of the history of technology, and its influence on human society and culture. Prerequisites: Sophomore standing; any level-1 composition course from WRTG-10600 through WRTG-16500. 3 credits. (F-E)

WRTG-22500 Grammar and Usage

Intensive study of the patterns of English grammar and their influence on sentence structure, punctuation, and usage. Daily exercises in contemporary usage and writing assignments prepare students for refining their own academic prose and for editing the work of others. Prerequisites: Sophomore standing; any level-1 composition course from WRTG-10600 through WRTG-16500. 3 credits. (F-S,Y)

WRTG-23600 Fiction Writing I: Short Story

Workshop in writing fiction emphasizing plot, characterization, dialogue, description, narration, mood, tone, and viewpoint. Analysis of both professional and student writing. A final portfolio of revised work is required. Prerequisites: Sophomore standing; WRTG-17500 or WRTG-20500. 3 credits. (F-S,Y)

WRTG-23800 Poetry Writing I

Workshop in writing poetry, in which students develop poetic strategies and practice a range of poetic forms and modes. Analysis of published models (both historical and contemporary) and student writing. A final portfolio of revised work is required. Prerequisites: Sophomore standing; WRTG-17500 or WRTG-20500. 3 credits. (F-S,Y)

WRTG-30100 Autobiography

Advanced course in writing autobiography. Encourages students to recognize developmental patterns in their own lives and understand the social and political context of their experience. Emphasis is placed on the thematic, structural, and stylistic problems of extended narrative. Biographical readings are used to model the genre and address relevant issues, such as the selectivity of memory, the public presentation of the private self, and the literary value of daily life. Prerequisites: Junior standing; WRTG-20500 or WRTG-23600. 3 credits. (F or S-Y)

WRTG-30500 Writing Science Fiction and Fantasy

Advanced creative writing course in science fiction and fantasy, which emphasizes the importance of character and thematic development. Assignments also focus on the selection of subject, setting, and narrative techniques. Readings in contemporary science fiction and fantasy serve as models for approaches to these two genres. Prerequisites: Junior standing; WRTG-20500 or WRTG-23600. 3 credits. (F or S-Y)

WRTG-31000 Women and Writing

Creative writing for students interested in exploring female experience through different literary forms. The first half of the course is nonfiction prose (journals, essays) and the second half, students choose to do fiction, poetry, or dramatic writing. Readings by contemporary female writers. Prerequisites: Junior standing; WRTG-20500, WRTG-23600, WRTG-23800. 3 credits. (F or S-Y)

WRTG-31100 Writing for the Professions

Advanced, thematically centered workplace writing focusing on the more rhetorical forms: policy statements, position papers, reports, dossiers, and journal articles. Course themes vary, but cut across and encourage dialogue and debate on major issues among different professions in business, government, law, and medicine. All sections are grounded in argument, ethics, and the humanities. Class readings may include casebooks, theoretical essays, or historical documents. Prerequisites: Sophomore standing; any level-1 composition course from WRTG-10600 through WRTG-16500 and three courses level 2 or above in the social sciences or a professional field; or WRTG-20100, WRTG-21100, or WRTG-23100. 3 credits. (S,Y)

WRTG-31300 Advanced Technical Writing

Advanced, thematically centered technical writing for specialized fields, such as health, environmental studies, computer science, and engineering. Fields and themes vary, but all sections address ethics and argumentation, the history and theories of technical rhetoric, and the political complexities linking scientific research, technical industry, and public policy. Students write abstracts and articles, lobbying and promotional materials, project management files, technical reports, and manuals. Prerequisites: Junior standing; WRTG-23100. 3 credits. (F-O)
WRTG-31400 Science Writing  HU LA 3a
Advanced expository course in journalistic and literary scientific writing. Students learn to communicate scientific facts and theories to professional and sophisticated lay readers through description, analogy, narrative, and argument. Some discussion of the technical and scholarly conventions of formal scientific writing. Class readings include major humanistic essays from the history of science, and articles and features from contemporary popular and scientific publications. Prerequisites: Junior standing; WRTG-20100 or WRTG-21300, and two courses in the natural sciences, or any level-1 composition course from WRTG-10600 through WRTG-16500 and three courses (at least one above level 1) in the health and natural sciences. 3 credits. (F,S,Y)

WRTG-31700 Proposals, Grants, and Reports  NLA
Advanced workplace writing of long, formal documents, particularly proposals, grants, and reports. Students address problems in the local community while studying the interplay among business, education, government, and nonprofits. Emphasizing civic responsibility in the marketplace, this course teaches research and interviewing, project management, editing, and document design. Writing assignments include feasibility, assessment, and progress reports, and individual and group projects. Prerequisites: Junior standing; WRTG-20100, WRTG-21100, or WRTG-21300. 3 credits. (F,Y)

WRTG-31800 Writing from Cultural Experience  HU LA 3a
Advanced expository course in which students explore the significance of their own ethnic and cultural identity, background, and experience. Writing assignments encourage students to employ a variety of essay styles and structures — from personal to public, and from narrative to analytical. Appropriate for any students who recognize their life experience as distinct by virtue of their nationality, race, religion, region, gender, sexual preference, or culture. Prerequisites: Junior standing; WRTG-20100 or WRTG-20500. 3 credits. (S,Y)

WRTG-31900 Writing as a Naturalist  HU LA 3a
Advanced expository essay course focusing on human interactions with the rest of the natural world. Readings are selected from the writing of naturalists, environmentalists, scientists, legislators, artists, poets, and philosophers. Writing assignments include field observation, description, analysis, and argument. Prerequisites: Junior standing; WRTG-20100, WRTG-20500, or any level-1 composition course from WRTG-10600 through WRTG-16500 and two courses in environmental studies above level 1. 3 credits. (F,Y)

WRTG-32000 Public Essay  HU LA 3a
A public essay is a vehicle for making sense of the world, for offering commentary about it that deepens the reader’s understanding and awareness of our condition. This advanced expository course provides students the occasion to write reflective literary essays on topics of public interest and significance. Students bring their own values, perspectives, insights, and voice to bear on matters of community concern. Prerequisites: Junior standing; WRTG-20100 or WRTG-20500. 3 credits. (F,S,Y)

WRTG-32100 Self and the Scholarly Essay  HU LA 3a
An advanced academic writing course in research-based writing. Students explore the relationship between postmodern concepts of voice and countertextuality, and practice the new academic essay, in which personal perspective and voice inform scholarship, learning when and how subjectivity is appropriate to scholarly writing. Particularly useful for students who wish to pursue graduate careers in writing, rhetoric and composition theory, and other subjects in the humanities and the arts. Prerequisites: Junior standing; WRTG-20100 or WRTG-20500. 3 credits. (F,S,Y)

WRTG-32500 Writing Children’s Literature  FA LA
Creating literature for children and young adults. In addition to studying stylistic approaches and techniques, the course addresses issues such as appropriate subject matter, writing for specific age groups, and the writer’s moral responsibility. Reading assignments include classic and contemporary works, fairy tales and myths, and critical and historical essays. Prerequisites: Junior standing; WRTG-20500; WRTG-23600. 3 credits. (F,Y)

WRTG-33100 Feature Writing  HU LA
Advanced expository course in developing the skills necessary to write informative, accurate, and interesting feature articles suitable for publication in daily or weekly newspapers. Students learn interviewing and reporting skills, as well as feature genres, style, and structure. Prerequisites: Junior standing; WRTG-20100 or WRTG-20500. 3 credits. (F,S,Y)

WRTG-33400 Humorous Writing  FA LA
Writing humorously in the comedic or satiric mode. Introduces a variety of humorous forms, such as monologue, parody, caricature, and irony. Readings from past and present works contribute to a study of the historical, philosophical, psychological, and cultural dimensions of humor. Major emphasis is placed on creative writing. Prerequisites: Junior standing; WRTG-20500 or WRTG-23600. 3 credits. (F,S,Y)

WRTG-33600 Fiction Writing II  FA LA
An advanced workshop for students with a serious commitment to writing fiction, this course builds on the work begun in WRTG-23600 Fiction Writing I: Short Story. Students may write short stories or longer fictional pieces. Prerequisites: Junior standing; WRTG-23600. 3 credits. (F,S,Y)

WRTG-33800 Poetry Writing II  FA LA
An advanced workshop for students with a serious commitment to the art of writing poetry. Students build on the study begun in WRTG-23800 Poetry Writing I, striving for a greater understanding of issues and techniques in poetry. Prerequisites: Junior standing; WRTG-23800. 3 credits. (F,S,Y)

WRTG-34000 Magazine Writing  HU LA
Experience in researching, writing, and marketing magazine articles, with an emphasis on features. Students study the various types of articles and analyze magazines for their content, audience, and editorial policy and slant, using this understanding to write for particular magazines of their choice. Students learn reporting and research techniques, as well as how to query editors. Prerequisites: Junior standing; WRTG-20100 or WRTG-20500; JOUR-11100 or WRTG-33100. 3 credits. (F,Y)

WRTG-34200 Writing about Sports  HU LA
Advanced expository course in writing essays about sports for a variety of audiences, and developing and articulating standards for that writing. Readings selected from past masters and contemporary practitioners to provide a context for class discussion and for descriptive, analytical, and argumentative writing. Emphasizes establishing an authentic voice. Prerequisites: Junior standing; WRTG-20100 or WRTG-20500. 3 credits. (S,Y)

WRTG-34500 Writing as a Critic  HU LA
Advanced expository course on the essentials of writing arts reviews and criticism for newspapers, magazines, and trade journals, both print and online. Subjects for review include film, theater, music, dance, performance media, literature, painting, printmaking, sculpture, photography, television, radio, videos, games, and digital media. Also addresses the social and aesthetic functions of arts criticism, the development of criteria for judgment, and the role and responsibility of the critic. Reading assignments include critical models as well as essays on the theory and practice of criticism. Prerequisites: Junior standing; WRTG-20100 or WRTG-20500; any two courses beyond level 1 in art, art history, literature, theater, music, dance, photography, television-radio, video, or film. 3 credits. (S,Y)

WRTG-35000, WRTG-35200 Selected Topics in Expository Writing  HU LA
Advanced expository writing course offered at irregular intervals on topics chosen by faculty members. May be repeated for credit when topics vary. For writing minors, the course may be an elective or fulfill a level-3 minor requirement. Prerequisites: Junior standing; WRTG-20100 or WRTG-20500 or any level-1 composition course from WRTG-10600 through WRTG-16500 and two courses in the natural sciences, or any level-1 composition course from WRTG-10600 through WRTG-16500 and two courses in the natural sciences. Prerequisites: Junior standing; WRTG-20500 or any level-1 composition course from WRTG-10600 through WRTG-16500 and two courses in the natural sciences, or any level-1 composition course from WRTG-10600 through WRTG-16500 and two courses in the natural sciences. Prerequisites: Junior standing; WRTG-20100 or WRTG-20500; any two courses beyond level 1 in art, art history, literature, theater, music, dance, photography, television-radio, video, or film. 3 credits. (S,Y)

WRTG-35400, WRTG-35600 Selected Topics in Creative Writing  FA LA
Advanced creative writing course offered at irregular intervals on topics chosen by faculty members. May be repeated for credit when topics vary. For writing minors, the course may be an elective or fulfill a level-3 minor requirement. Prerequisites: Junior standing; WRTG-20100 or WRTG-20500 or any level-1 composition course from WRTG-10600 through WRTG-16500 and two courses in the natural sciences, or any level-1 composition course from WRTG-10600 through WRTG-16500 and two courses in the natural sciences. Prerequisites: Junior standing; WRTG-20500 or any level-1 composition course from WRTG-10600 through WRTG-16500 and two courses in the natural sciences, or any level-1 composition course from WRTG-10600 through WRTG-16500 and two courses in the natural sciences. Prerequisites: Junior standing; WRTG-20100 or WRTG-20500; any two courses beyond level 1 in art, art history, literature, theater, music, dance, photography, television-radio, video, or film. 3 credits. (S,Y)

WRTG-36000 Composition Theory  HU LA
Introduction to research and scholarship currently shaping the theory and practice of composition studies. Covers major philosophies of composing and studies in language and learning that inform writing pedagogy. Investigates how social and political dimensions of literacy affect language use and learning, as well as how new technologies shape writing and teaching practice. Prerequisites: Junior standing; WRTG-20100; WRTG-20500. 3 credits. (F,S,Y)

WRTG-36500 Poetics  HU LA
Introduction to Western theories of creative writing as a means of investigating the relationships between writer, text, and world. Addresses cultural/political, psychological, philosophical, and aesthetic concerns. Students analyze their own creative work and process in the context of these theories. Prerequisites: Junior standing; WRTG-23600 or WRTG-23800; any other writing course above level 1. 3 credits. (F,S,Y)

WRTG-36600 Theory of Expository Writing  HU LA
An advanced expository course in writing expository writing. Students learn to communicate scientific facts and theories to professional and sophisticated lay readers through description, analogy, narrative, and argument. Some discussion of the technical and scholarly conventions of formal scientific writing. Class readings include major humanistic essays from the history of science, and articles and features from contemporary popular and scientific publications. Prerequisites: Junior standing; WRTG-20100 or WRTG-21300, and two courses in the natural sciences, or any level-1 composition course from WRTG-10600 through WRTG-16500 and three courses (at least one above level 1) in the health and natural sciences. 3 credits. (F,S,Y)
**WRTG-38000 Writers' Workshop**  
An advanced writing workshop offered each semester to coincide with the department’s Distinguished Visiting Writers series. Requires 15 contact hours in meetings, conferences, and classes with both the visiting writer and the writing faculty coordinator. Students produce a 15-page revised manuscript of new work in the relevant genre over the course of the semester. May be repeated up to three times for credit. Prerequisites: Junior standing; permission of instructor. 1 credit. (F-S-Y)

**WRTG-41000 Senior Project**  
Advanced independent project designed by writing majors no later than the second semester of the junior year and relating to their particular concentration. The project, which must be approved by student’s mentor as well as the department chair, is undertaken in the second semester of the student’s senior year. Work in the final portfolio is juried by both mentor and major subcommittee. Students are encouraged but not required to give a public presentation or reading of their work during their final senior semester. Prerequisites: Senior standing; WRTG−32000, WRTG−33600, or WRTG−33800; WRTG−36000 or WRTG−36500; and approval of faculty sponsor and department chair. Open to majors only. 3 credits. (F-S-Y)

**WRTG-41500 Senior Seminar**  
Small group setting for intensive study of selected advanced topics not provided elsewhere in the curriculum. Seminar topics vary each semester. May be repeated for credit when topics vary. Prerequisites: Senior standing; two writing courses beyond level 1, at least one of which must be at level 3; permission of instructor; additional specific prerequisites to be determined by the subject of the seminar. 3 credits. (F-S-Y)

**WRTG-42000 Apprenticeship**  
Service as a teacher’s apprentice in a writing course, correcting and commenting on student papers, tutoring, leading class exercises or discussions, and participating in conferences. Prerequisites: Desire to work with Academic Writing I or II, Personal Essay, Persuasive Argument, or an affiliated course; successful completion of the course that the student would like to apprentice in; successful completion of at least two writing courses above level 1, at least one B and one A- as final grades; senior standing. 3 credits. (F-S-Y)

**WRTG-43600 Writing the Short Novel**  
This advanced fiction-writing seminar offers students the opportunity to develop a short novel. The course extends previously learned narrative elements, such as characterization, plot, setting, point of view, tone, and voice, and applies them to a broader, more complex literary canvas. Students will create narratives that allow for multiple characters who interact within an expanded social context or that permit the extended exploration of a single character in considered detail. Prerequisites: Junior standing; WRTG-17500 or its equivalent; WRTG-20500; WRTG-23600; WRTG-32500, WRTG-33400, or WRTG-33600; one literature course in the departments of English or modern languages, 3 credits. (F-Y)

**WRTG-45000 Internship**  
Work and study project designed by the student, in consultation with a faculty sponsor and a practicing professional. The proposal includes learning objectives, a detailed work plan, and a description of the student’s plan for reports to the faculty sponsor. Prerequisites: Junior standing; three writing courses above level 1; additional prerequisites depending on topic. 1–6 credits. (F-S-Y)

**WRTG-49800 Independent Study (Exposition)**  
Student-initiated expository writing project focusing on a specialized area. For the qualified, advanced student, by agreement with a faculty member. Offered on demand only. Approval of the writing department chair must be obtained one semester in advance of the proposed project. Prerequisites: Senior standing; three writing courses above level 1; additional prerequisites depending on topic. 1–3 credits. (F-S-Y)

**WRTG-49900 Independent Study (Creative Writing)**  
Student-initiated creative writing project focusing on a specialized area. For the qualified, advanced student, by agreement with a faculty member. Offered on demand only. Approval of the writing department chair must be obtained one semester in advance of the proposed project. Prerequisites: Senior standing; three writing courses above level 1; additional prerequisites depending on topic. 1–3 credits. (F-S-Y)

**WRTG-32000, WRTG-33600, or WRTG-33800; WRTG-36000 or WRTG-36500; and approval of faculty sponsor and department chair. Open to majors only. 3 credits. (F-S-Y)**

**INDIVIDUAL AND INTERDISCIPLINARY STUDIES PROGRAMS**

Individual and interdisciplinary study in the School of Humanities and Sciences includes the following programs.

**CLASSICAL STUDIES**

Robert G. Sullivan, Associate Professor and Coordinator

Ithaca College offers students an opportunity to study the classical tradition from an interdisciplinary perspective. The classical studies minor focuses on the languages, literatures, and civilizations of ancient Greece and Rome, as well as the later classical tradition. Since many of the ideas and principles that emerged in the classical world are basic to Western culture, courses in classics apply to the study of almost all the liberal arts and sciences. Classical studies is of particular interest to students of law, literature, rhetoric and composition, communication, modern languages, history, politics, religion, music, art history, drama, and philosophy. For more information, contact the program coordinator.

**Requirements for the minor in classical studies**

The minor has three components: (1) classical languages, (2) core courses in classical history and culture, and (3) electives.

**Classical Languages:** Six credits of Latin or Greek above level 1, or proficiency

<table>
<thead>
<tr>
<th>Latin Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LATN-10100 Elementary Latin I</td>
<td></td>
</tr>
<tr>
<td>LATN-10200 Elementary Latin II</td>
<td></td>
</tr>
<tr>
<td>LATN-20100 Intermediate Latin I</td>
<td></td>
</tr>
<tr>
<td>LATN-20200 Intermediate Latin II</td>
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</tbody>
</table>

**Core Courses in Classical History and Culture:** Three courses (9 credits), each from a different department

**Art History**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>ARTH-11700</td>
<td>Survey of Western Art I</td>
</tr>
<tr>
<td>ARTH-20800</td>
<td>Mythology and Art</td>
</tr>
<tr>
<td>ARTH-20900</td>
<td>Introduction to the Roman World</td>
</tr>
<tr>
<td>ARTH-21900</td>
<td>Arts of Antiquity: Greece and Rome</td>
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**English**

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ENGL-23100</td>
<td>Ancient Literature</td>
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**History**

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<tbody>
<tr>
<td>HIST-10100</td>
<td>Foundations of Western Civilization</td>
</tr>
<tr>
<td>HIST-23100</td>
<td>The Ancient World: Greece and Rome</td>
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</tbody>
</table>

**Philosophy and Religion**

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>PHIL-10200</td>
<td>Introduction to Philosophy — Greek Foundations</td>
</tr>
<tr>
<td>PHIL-20100</td>
<td>Plato and Aristotle</td>
</tr>
</tbody>
</table>

**Speech Communication**

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>SPCM-32600</td>
<td>Classical Theories and Rhetoric</td>
</tr>
</tbody>
</table>

**Electives:** Six credits of electives to be chosen from courses in classical languages, from the list of core courses in classical history and culture, or from the following list of courses in related fields. Elective credits may also be applied from other appropriately focused courses — including independent study, directed reading, or selected topics courses, or internships in any department — with the approval of the program coordinator.

**Courses in Related Fields:**

**Art History**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ARTH-20300</td>
<td>Egypt and Its Neighbors</td>
</tr>
<tr>
<td>ARTH-22100</td>
<td>Introduction to the Medieval World</td>
</tr>
<tr>
<td>ARTH-22200</td>
<td>Architecture from Catacombs to Cathedrals</td>
</tr>
<tr>
<td>ARTH-23000</td>
<td>Italian Renaissance Art</td>
</tr>
<tr>
<td>ARTH-33100</td>
<td>Studies in Art from Ancient to Renaissance (when focus is appropriate)</td>
</tr>
<tr>
<td>ARTH-33600</td>
<td>Late Renaissance Art in Italy</td>
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</table>
ENVIRONMENTAL STUDIES PROGRAM

Bachelor of Arts
Susan M. Allen-Gil, Associate Professor and Coordinator

The program in environmental studies offers two majors. Environmental studies focuses on the humanities, including implementation, values, and aesthetics, while providing a strong science background. Environmental science focuses on the sciences and prepares students to conduct original research designed to solve environmental problems in the context of social values and economic and political reality.

The Major in Environmental Studies
Environmental studies is an interdisciplinary major dealing with questions and issues that pertain to the interaction between humanity and nature. No one discipline can possibly cover such a broad area for reflection; consequently, students in this major are required to develop considerable intellectual breadth. The core curriculum requires not only a significant amount of science but also history, economics, politics, and philosophy. In consultation with their advisers, students will construct an area of concentration. Students must submit the self-designed concentration to the registrar no later than the end of the junior year. A senior capstone experience (such as an internship, research paper, or special project) will integrate the major and prepare graduates for graduate school or environmental careers.

Requirements for the Major in Environmental Studies — B.A.

Required courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BIOL-15100</td>
<td>Environmental Science I</td>
<td>4</td>
</tr>
<tr>
<td>BIOL-27500</td>
<td>Field Biology</td>
<td>4</td>
</tr>
<tr>
<td>CHEM-11700</td>
<td>Environmental Chemistry I</td>
<td>3</td>
</tr>
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<td>CHEM-11900</td>
<td>Environmental Chemistry Laboratory</td>
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<tr>
<td>ECON-28100</td>
<td>Environmental Economics</td>
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<td>POLT-24600</td>
<td>Environmental Politics</td>
<td>3</td>
</tr>
<tr>
<td>HIST-27000</td>
<td>History of American Environmental Thought</td>
<td>3</td>
</tr>
<tr>
<td>PHIL-25000</td>
<td>Environmental Ethics</td>
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Restricted Electives

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<tr>
<td>BIOL-12100</td>
<td>Fundamentals of Biology II or</td>
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<tr>
<td>BIOL-12200</td>
<td>Principles of Biology II</td>
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</tr>
<tr>
<td>MATH-15500</td>
<td>Basic Statistical Reasoning or</td>
<td></td>
</tr>
<tr>
<td>MATH-24300</td>
<td>Statistics</td>
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<tr>
<td>MATH-24400</td>
<td>Statistics with Probability</td>
<td>3–4</td>
</tr>
<tr>
<td>ENV-45000</td>
<td>Capstone chosen from an approved tutorial, seminar, internship, or independent study at level 3 or 4</td>
<td>4</td>
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Required self-designed concentration (see the environmental studies website for examples)

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<tr>
<th>Course Code</th>
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<th>Credits</th>
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<td>Four courses at level 3 or 4</td>
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<td>Total in the major</td>
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<tr>
<td>Electives</td>
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<td>Total, B.A. in environmental studies</td>
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</table>

The Major in Environmental Science
Environmental science is an interdisciplinary program that provides strong training in the sciences; a choice of focal areas in anthropology, biology, or chemistry; and a background in related courses in the humanities. Core science requirements include 43 credit hours of classes for science majors. In addition, the environmental science major develops a significant expertise in one of the three focal areas. Majors in both environmental studies and environmental science share in the senior capstone experience — a real, applied project — which integrates the experiences of students with different skills and training and prepares students for graduate school or environmental careers.

Requirements for the Major in Environmental Science — B.A. with a Concentration in Anthropology, Biology, or Chemistry

Science background courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL-15100</td>
<td>Environmental Science I</td>
<td>3</td>
</tr>
<tr>
<td>BIOL-12100</td>
<td>Principles of Biology I</td>
<td>4</td>
</tr>
<tr>
<td>BIOL-12200</td>
<td>Principles of Biology II</td>
<td>4</td>
</tr>
<tr>
<td>BIOL-27500</td>
<td>Field Biology or</td>
<td></td>
</tr>
<tr>
<td>PHYS-17200</td>
<td>Earth Science</td>
<td></td>
</tr>
<tr>
<td>CHEM-12100</td>
<td>Principles of Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM-12400</td>
<td>Experimental Chemistry I</td>
<td>2</td>
</tr>
</tbody>
</table>
Environmental Studies Program

CHEM-22500  Experimental Chemistry II  2
CHEM-22100  Organic Chemistry I  3
CHEM-22200  Organic Chemistry II  3
CHEM-22300  Quantitative Chemistry  3
MATH-11100  Calculus I  4
MATH-10800  Calculus for Decision Making  4
MATH-24400  Statistics with Probability  4
Total, science background  43

Cultural background courses
A minimum of two courses from each of the two lists below, with at least one in humanities and one in social sciences. Courses chosen to fulfill this requirement cannot be used to fulfill requirements for the focal area.

Select two of the following:
PHIL-25000  Environmental Ethics (3)
POLT-36400  Environmental Politics (3)
HIST-27000  History of American Environmental Thought (3)
Select two of the following:
ANTH-10300  Biological Anthropology (3)
ANTH-12900  Introduction to Global Studies (3)
ECON-28100  Environmental Economics (3)
ECON-28200  Natural Resource Economics (3)
HIST-20300  Introductory Geography (3)
HIST-27000  History of American Environmental Thought (3)
POLT-12900  Introduction to Global Studies (3)
POLT-36600  Environmental Politics (3)
SOCI-30100  Technology and Society (3)
SOCI-40200  Society and Nature (3)
CMSP-31900  Writing as a Naturalist (3)
Total, cultural background  12

Integrative experience
ENVS-45000  Environmental Capstone  4
ENVS-40100  Environmental Seminar  1
Total, integrative experience  5

Focused Studies
Each student will fulfill requirements in one of three focal areas listed below.

Biology
Select five of the following:
BIOL-35400  Biochemistry I (4)
BIOL-35500  Biochemistry II (4)
BIOL-20300  Invertebrate Zoology (4)
BIOL-21800  Animal Behavior (4)
BIOL-21400  Animal Physiology (4)
BIOL-27400  General Ecology (4)
BIOL-27800  Environmental Health and Medicine (3)
BIOL-28400  Field Ornithology (4)
BIOL-30500  Parasitology (4)
BIOL-32700  Genetics (4)
BIOL-37800  Environmental Toxicology (4)
BIOL-45200  Microbiology (4)
BIOL-45400  Cell Biology (4)
BIOL-47300  Plant Physiology (4)
BIOL-47900  Ecology of Aquatic Communities (4)
Total, biology focal area  19–20

Chemistry
CHEM-32400  Experimental Chemistry III  3
CHEM-32600  Experimental Chemistry IV  3
CHEM-33100  Physical Chemistry I  3
CHEM-33200  Physical Chemistry II  3
PHYS-10100–PHYS-10200  Introduction to Physics I–II  8
PHYS-11700–PHYS-11800  Principles of Physics I–II  8
MATH-12200  Calculus II  4
Total, chemistry focal area  21

Anthropology
ANTH-10400  Cultural Anthropology  3

Select six of the following:
ANTH-24500  South American Prehistory (3)
ANTH-24900  Mesoamerican Prehistory (3)
ANTH-27500  North American Prehistory (3)
ANTH-31400  The Beastly Mirror (3)
ANTH-37500  Environmental Anthropology (3)
ANTH-38000  Medical Anthropology (3)
ANTH-38800  Origins of Agriculture (3)
Total, anthropology focal area  18

Minor in Environmental Studies
The interdisciplinary minor in environmental studies at Ithaca College is administered by the School of Humanities and Sciences. The object of the minor is to (1) introduce students to the substance and complexity of environmental issues, and (2) explain what they must know before they can begin to participate in responsible discussion and policy making on any level.

Students pursue eight courses for an integrated inquiry into two related areas: Area I: foundations in science — toward an understanding of and an appreciation for the principles of ecology, and thus a recognition of the necessity for integrity and stability in the natural environment; and Area II: cultural solutions — an analysis of economic, political, cultural, and intellectual forces that motivate adverse human impact on the natural environment, and an encouragement of an “active hope” for solutions to environmental issues.

Requirements for the minor in environmental studies
Area I: Foundations in Science (9–16 credits; minimum of three courses)
Minimum of one survey of biology from the following:
BIOI-12000  Fundamentals of Biology II (3)
BIOI-11500  Essentials of Biology (3)
BIOI-12200  Principles of Biology II (3)
BIOI-15100–BIOI-15200  Environmental Science I–II (3–6)
Minimum of one ecology/environment-oriented course from the following:
BIOI-10400  Environmental Biology (3)
BIOI-27100  General Ecology (4)
BIOI-28600  Field Ornithology (4)
Minimum of one chemistry course from the following:
CHEM-10200  Contemporary Chemical Issues (3)
CHEM-10500  Energy and the Environment (3)
CHEM-11700–CHEM-11800  Environmental Chemistry I–II (3) (Note: Students may also satisfy this requirement by selecting any two-course sequence in chemistry.)
Total, Area I  9–16

Area II: Cultural Solutions (12 credits; minimum of four courses of which at least one is in the humanities and one is in social sciences)
Minimum of one survey of biology from the following:
HIST-27000  History of American Environmental Thought (3)
HIST-48100, HIST-48200  History Seminar, Non–United States History (3)
HIST-48300, HIST-48400  History Seminar, United States History (3)
HIST-49100, HIST-49200  Tutorial, Non–United States History (3)
HIST-49300, HIST-49400  Tutorial, United States History
PHIL-25000  Environmental Ethics (3)
WRIT-31900  Writing as a Naturalist (3)
ECON-28100  Environmental Economics (3)
ECON-38200  Natural Resources Economics (3)
POLT-12900  Introduction to Global Studies (3)
ANTH-12900  Introduction to Global Studies (3)
POLT-36600  Environmental Politics (3)
HIST-20300  Introduction to Geography (3)
SOCI-30100  Technology and Society (3)
SOCI-40200  Society and Nature (3)
ANTH-37500  Environmental Anthropology (3)
Total, Area II  12
One additional course from either Area I or II  3–4
Total, required for minor  24–32

Students should be aware that many of the courses in Area II have prerequisites not required for the minor. Therefore, to successfully complete the minor, it is important to plan carefully and seek advice early from a minor adviser. Courses listed as seminar or tutorial apply only if the topic is appropriate to the minor and prior approval is granted by the environmental studies program coordinator.
ENVS-40100 Environmental Seminar
Seminars, discussion, and readings in environmental studies and science. Required of environmental science majors. Prerequisites: Junior standing; environmental studies or environmental science major. Pass/fail only. 3-5 credits. (S-Y)

ENVS-45000 Capstone Seminar for Environmental Studies/Science Majors
An integrative course that encourages students to apply ideas and concepts learned as an environmental studies or environmental science major toward a specific area of environmental inquiry or a particular environmental problem. The specific subject matter of the course is determined by the professor teaching it, but common to all capstone seminars is class involvement in a rigorous research agenda, drawing on methodologies from natural sciences, social sciences, and humanities. Course topics generally focus on local or regional environmental issues, showing their interconnections to global environmental concerns. Students are encouraged to move out of the classroom to conduct research projects. Public presentations of research findings is strongly encouraged. Prerequisites: Junior standing or above; environmental studies or environmental science major. 4 credits. (F-S,Y)

ENVS-49000 Independent Study
The program of study may be a reading program of materials of special interest to the student, or one involving developing and executing a research project on a specific topic. Reading or research is undertaken under faculty direction. Prerequisites: Permission of instructor. 1-4 credits. (F-S,Y)

ENVS-49500 Internship
Permits students to explore environmental studies through a variety of work experiences. Students are expected to submit, as part of their course obligations, a thorough written evaluative report based on their experiences. Internships may be taken at national, state, and local levels, and in London under the auspices of the Ithaca College London Center. Prerequisites: Permission of instructor; completion of three-quarters of an environmental studies major or minor. 1-12 credits. (F-S,Y)

JEWISH STUDIES
Barbara C. Johnson, Associate Professor and Coordinator
Jewish studies approaches the history and culture of the Jewish people from a multicultural and interdisciplinary perspective. The goals of the Jewish studies minor are to foster greater knowledge about Jewish history, religion, and culture and to explore how Jews are in their geographic and cultural diversity, and how they have interacted with other peoples politically, economically, socially, ideologically, philosophically, and artistically. In order to understand Jewish history, it is necessary to investigate economic, political, and social forces that affected the lives of Jews in varied cultural settings for thousands of years. The study of Jewish cultures includes religious beliefs and practices, philosophy, literature, folklore, visual arts, music, and the media. The Jewish studies minor is relevant for students going on to graduate study in any of a number of disciplines, with or without a Jewish studies focus. It is also important for students contemplating professional careers related to Jewish religion, education, or community service (e.g., as rabbis, cantors, Jewish educators, social workers, or administrators of Jewish community programs). More generally, it is a useful minor for a wide variety of students pursuing careers in which multicultural awareness is important.

The minor in Jewish studies requires 18 credit hours of work, including a basic language proficiency in Hebrew or another Jewish language (Yiddish or Judeo-Español).

Requirements for the minor in Jewish studies

Select 12 credits from the following courses, with at least 3 credits in at least two of the three categories:

Social science and history
- JWST-20100 Jews in the Ancient and Medieval Worlds (3)
- JWST-20200 Jews in the Modern World (3)
- ANTH-23500 Jewish Cultures: A Worldwide View (3)
- ANTH-23610 American Jewish Life (3)
- ANTH-34500 Israel: Ethnicity, Politics, and Culture (3)
- POLT-33900 Political Economy of the Middle East (3)
- POLT-40100 Politics seminar, when appropriate topic (3)
- POLT-40200 Politics seminar, when appropriate topic (3)
- SPCM-38900 Special topics in speech communication, when appropriate topic (3)

Religious studies
- JWST-10300 Hebrew Scriptures (3)
- JWST-20300 Judaism (3)
- JWST-32300 Gender and Sexuality in Judaism (3)
- JWST-33300 Jewish Mysticism (3)
- RLST-27500 Selected topics in religion, when appropriate topic (3)
- RLST-37500 Selected topics in religion, when appropriate topic (3)
- JWST-42000 Internship in Jewish Studies (1-12)
- JWST-49100 Independent Study in Jewish Studies (1-4)

Language, literature, and the arts
- HEBR-20200 Intermediate Hebrew II
- HEBR-39900 Independent Study in Hebrew
- ENGL-21100 American Jewish Writers
- ENGL-32400 Literature of the Bible
- ENGL-37400 Shakespeare and the Jews
- MUEN-32100 Chamber Ensemble, when appropriate focus

Total 12
Total, minor in Jewish studies 18

Additional requirements
1. Students in the minor must successfully complete HEBR-10100 with a grade of at least C- or demonstrate equivalent proficiency on a placement test to be administered by the Department of Modern Languages and Literatures. Students may petition the coordinator to substitute another Jewish language (Yiddish or Judeo-Español) in place of Hebrew, in which case testing for placement shall be done in conformity with testing of such proficiencies for any language by the Department of Modern Languages and Literatures.
2. No more than 6 credits from a student’s major department or 3 credits from a student’s second minor will count toward the Jewish studies minor.
3. No more than 3 credits of internship or independent study will count toward the Jewish studies minor.
4. At least 6 credits toward the minor must come from courses at level 3 or above.
5. At least 9 credits toward the minor must be taken at Ithaca College.

JEWISH STUDIES COURSES

JWST-10300 Hebrew Scriptures
This course treats the books of the Bible critically as literature, as religious and moral texts, and as a source of sociological knowledge. It surveys the biblical literature, acquaints students with critical methods for the study of the Bible, situates the Bible within the literature and culture of the ancient Near East, and discusses the religion of ancient Israel. We will deal with questions of history and archaeology and with questions of meaning: what the biblical text meant to its ancient readers and what meanings it has today. Cross-listed as RLST-10300. Students may not receive credit for both RLST-10300 and JWST-10300. 3 credits. (F-Y)

JWST-20100 Jews in the Ancient and Medieval Worlds
An introduction to Jewish history and the varieties of Jewish cultures and religious traditions in the ancient and medieval worlds, covering Jewish history from the period of the Second Temple (sixth century B.C.E.) to the expulsion from Spain in 1492. Prerequisites: One course in the humanities or social sciences. 3 credits. (F-O)
JWST-20200  Jews in the Modern World  
HU LA 1, h, g  
A survey of world Jewish history from 1492 to the present, concentrating on the Middle East, Europe, North Africa, and the United States. Discussion of the expulsion from Spain, growth of Jewish communities in the Ottoman Empire and Eastern Europe, enlightenment and emancipation, European colonialism, migration to the Americas, anti-Semitism and the Holocaust, the state of Israel, and modern religious movements. Prerequisites: One course in the humanities or social sciences. 3 credits. (F,E)

JWST-20300  Judaism  
HU LA 1, g  
An introduction to Judaism with a focus on theology, ethics, and ritual practice. Readings include selected texts from the biblical, rabbinic, medieval, and modern periods. Theological and ethical issues include God, good and evil, covenant, death and afterlife, justice, and social responsibility. The course examines how these Jewish understandings are lived out through practices associated with birth and death; marriage and commitment; sexuality; and the life of study, prayer, and devotion. Cross-listed with RLST-20300. Students may not receive credit for both JWST-20300 and RLST-20300. Prerequisites: One course in the humanities or social sciences. 3 credits. (F,E)

JWST-32300  Gender and Sexuality in Judaism  
HU LA  
Exploration of what it means to be a Jewish man or woman. The course addresses how Jewish gender roles have changed throughout history, as well as how contemporary Jews deal with changes in women's roles and demands for gender equality. Topics covered include what is "gender" and how to study it; traditional roles of men and women in Judaism; the gendered Jewish body; family and sexuality; homosexuality; Jewish feminism; the gender of God; and changing women's religious roles. Cross-listed with RLST-32300. Students may not receive credit for both RLST-32300 and JWST-32300. Prerequisites: Three courses in the humanities or social sciences. 3 credits. (S,Y)

JWST-33300  Jewish Mysticism  
HU LA  
The course traces the history of Jewish mysticism. After a brief overview of early Jewish mysticism from the biblical and rabbinic periods, students will concentrate on the medieval flowering of Kabbalah, and its further development in the 16th-century Kabbalah of Safed and Safed and 18th-century Eastern European Hasidism. The emphasis will be placed on understanding both the theoretical and experiential aspects of Jewish mysticism and on examining some of the key texts of Jewish mysticism. Cross-listed with RLST-33300. Students may not receive credit for both RLST-33300 and JWST-33300. Prerequisites: Three courses in the humanities or social sciences. 3 credits. (Y)

JWST-42000  Internship in Jewish Studies  
UNLA  
On-site work experience, combined with academic study, in agencies or educational institutions with significant Jewish content, such as Jewish schools or community agencies or multicultural groups. Arranged individually at the student's request with the individual instructor, a sponsoring agency, and permission of the Jewish studies coordinator. Prerequisites: Permission of instructor. 1–12 credits. (IRR)

JWST-49100  Independent Study in Jewish Studies  
UNLA  
Special research on an individual project arranged by a student with a particular faculty member. The project may include reading books and/or writing papers under the guidance of the faculty member, with a performance expectation of upper-level work. Offered on demand only. Prerequisites: Permission of instructor. 1–4 credits. (IRR)

LATIN AMERICAN STUDIES

Michael Malpass, Professor and Coordinator  
Gladys M. Varona-Lacey, Professor and Coordinator  
Latin America is an extraordinarily diverse area, encompassing a wide variety of cultures, political units, economics, languages, and environments. The goals of the Latin American studies minor are to foster greater knowledge about Latin America and to explore the cultural contributions of that area to the global community. The minor aims to expand students' views concerning the multicultural nature of the peoples of Latin America and to emphasize the interactions between indigenous and introduced cultures in this region, both past and present. The Latin American studies minor will be useful to students envisioning careers in government, business, commerce, communication, or teaching. Students interested in pursuing graduate work in any field related to Latin America will also find such a minor to be important.
PLANNED STUDIES COURSES

PLST-39700, PLST-49700 Planned Studies Internship

U NLA

Together with a faculty sponsor, students develop an interdisciplinary work-study project that combines an academic core with responsibilities in a professional setting. A design statement must be developed and approved in advance. Application forms and guidelines are available in the office of the dean; see information on internships, p. 117. A maximum of 12 internship credits may be counted toward a degree; advance approval by the provost is required for the 7th to 12th credits. Prerequisites: Completion of most of a major relevant to the work experience; permission of department chairs and dean. Variable credit.

PLST-29910, PLST-39910, PLST-49910 Planned Studies

Independent Study

U NLA

Students may register for independent study in areas that have cross-disciplinary aspects or that are not available elsewhere in the College. Interested students should obtain the independent study application form and guidelines from the office of the dean and develop a project in consultation with a faculty sponsor. Offered on demand only. Prerequisites: Approval of adviser; permission of department chairs and dean. 1–4 credits.

WOMEN'S STUDIES

Diane McPherson, Associate Professor and Coordinator

The central organizing category of analysis in women's studies is the concept of gender, which we understand as a pervasive social construction reflecting and determining differentials of power and opportunity. Women's studies analyzes how this social construction shapes the lives of women. Women's studies is both an innovative approach to traditional subjects and a growing field in its own right. Women's studies courses focus on women in diverse contexts from a variety of disciplinary perspectives. The courses exist to meet a demand that has come primarily from women to understand more fully the past and present position of their sex.

Minor in Women's Studies

For the minor in women's studies, students must take 18 credits. Each student must take WMST-10000 Introduction to Women's Studies. Students are also strongly advised to take WMST-41000 Selected Topics: Women's Studies in the spring semester of the junior or senior year. The other 12 credits must be selected from the approved list of courses. At least 6 of the credits for the minor must be level 3 or above, and no more than three courses may be taken from any one of the four categories in the list of approved courses.

Note: No more than two courses in the student’s major may be counted toward the minor. Additional courses in which women’s lives, women’s history, or women’s issues are the primary subject may be counted toward the minor if approved by the coordinator of women’s studies.

Requirements for the minor in women’s studies

WMST-10000 Introduction to Women’s Studies

Five courses selected from the following list, with no more than three courses in any one of the four areas (social sciences, humanities/ fine arts, professional schools, upper-level women’s studies). At least two courses must be level 3 or above.

Social science courses

POLT-14100 Power: Race, Sex, and Class (3)
POLT-34300 Feminist Theory (3)
POLT-40100/ POLT-40200 Seminar (topics that focus on feminist issues or theory) (3)
POLT-40000/ POLT-40400 Tutorial (topics that focus on feminist issues or theory) (3)
PSYC-26100 Psychology of Women (3)
SOCL-20200 Contemporary Social Issues: Women in Britain (3)
Women's Studies Courses

SOCI-21000  Women's Lives (3)
SOCI-31600  Women and Health (3)
SOCI-32300  Family Violence (3)
SOCI-32500  Race, Class, and Gender (3)
SOCI-41900  Seminar: Women in the Third World (3)
SOCI-43100  Selected Topics in Gender Studies: Feminist Social Theory (3)
ANTH-33500  Women and Culture (3)

Humanities/fine arts courses
SPAN-37400  Topics of Women in Latin American Literature: Images of Women in Latin American Literature (3)
SPCM-34600  Gender and Interpersonal Communication (3)
ARTH-34100  Women Artists and Cultural Change (3)
ARTH-34200  Images of Women in Western Art (3)
ENGL-22000  Black Women Writers (3)
ENGL-35000  Imagining Herself: Women's Autobiography (3)
WRTG-31000  Women and Writing (3)
MUNM-25500  Women and Music (3)
MUNM-25600  Women in Popular Music from Bessie Smith to MTV (3)

Professional schools
HRM-34500  Women and Men in Management (3)
CNPH-30300  Images of Men and Women in Mass Media (3)
OCLD-36000  Communication in Culturally Diverse Organizations (3)
EXSS-29800  Gender Issues in Sport (3)

Upper-level women's studies courses
WMST-41000  Selected Topics: Women's Studies (3)
WMST-42000  Independent Study in Women's Studies (3)
WMST-43000  Internship in Women's Studies (3)

Total, minor in women's studies 18

Note: No more than two courses in a student's major may be used to meet requirements for the minor.

WOMEN'S STUDIES COURSES

WMST-10000  Introduction to Women's Studies LA 1
Women's studies provides a critical perspective that examines the world and everything that happens within it from the viewpoints of women. It encourages new ways of seeing and thinking about our world and its people and institutions. Interdisciplinary introduction to the questions, findings, methods, and theories of women's studies scholarship. Examines how multiple forms of feminism shape the practice of women's studies and increasingly recognize differences among women. Examines feminism(s) as well as the diverse conditions of women's lives and experiences in the United States. Open to all interested students; a requirement for the women's studies minor. 3 credits. (F or S, Y)

WMST-41000  Selected Topics: Women's Studies LA
Topics of current interest in women's studies using a women's studies approach to pedagogy. This feminist pedagogy includes: (1) an emphasis on critical thinking and analytical skills; (2) an emphasis on cooperation instead of competition and hierarchy in the classroom; and (3) the validation of personal experience and subjective knowledge in the learning process. Prerequisites: WMST-10000; two courses from the women's studies minor list. 3 credits. (IRR)

WMST-42000  Independent Studies LA
Independent studies projects are arranged individually between student and instructor. A proposal for the topic and specific plans must be approved by the coordinator of the women's studies program and by the School of Humanities and Sciences dean's office. Prerequisites: WMST-10000; two courses from the women's studies minor list; permission of instructor. 1-4 credits. (F-S,Y)

WMST-43000  Internship: Women's Studies NLA
Internships are arranged individually at the student's request with individual instructors and a sponsoring agency. A proposal for an internship must be approved by the coordinator of the women's studies program and by the School of Humanities and Sciences dean's office. Prerequisites: WMST-10000; two courses from the women's studies minor list; permission of instructor. Variable credit. (F-S,Y)

INTERDISCIPLINARY COURSES

Library Resources
IISP-10500  Library Resources and Methods of Research U LA
A seven-week course on the College library collections and services. Instruction in the use of periodical indexes, abstracts, reference sources, card catalog, and nonbook materials. Emphasis is placed on completion of two bibliographic search projects. 1 credit. (IRR)

IISP-10800  Business Reference Sources and Methods of Research NLA
A seven-week course to enable students to select, locate, and use basic and advanced business and economics sources in the College library and other libraries; formulate, define, and conduct a research strategy on a specific company, industry, or business topic; and write a report on a company based on an analysis of information gathered through interviews and print and electronic sources. Open to all majors, but highly recommended for students in the School of Business. Prerequisites: Sophomore standing or above. 1 credit. (F-S,Y)